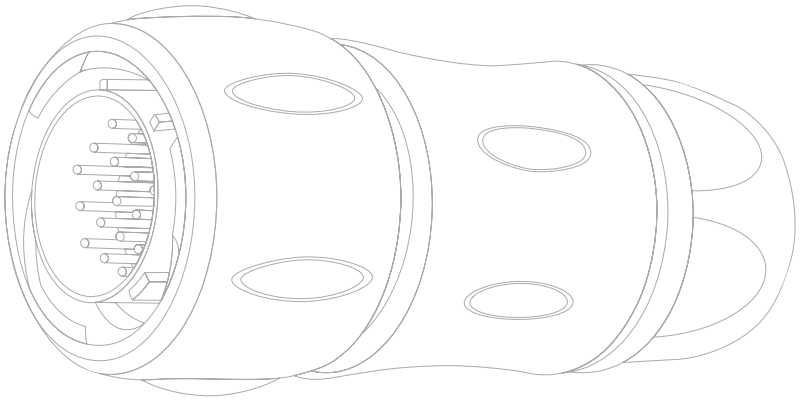
Plastic circular connectors
Souriau TRIM TRIO® UTSX series



Powering Business Worldwide



UTSX series

plastic circular connectors

Typical applications









Upgraded for higher performance

The Souriau UTSX series is a full-plastic, waterproof circular connector designed for harsh environments. The UTSX series features reinforced bayonet pins and a broader range of layouts, sizes and mechanical keyings when compared to its predecessor, the UTS series.

Interchangeable with other Souriau TRIM TRIO® connectors

Part of the Souriau TRIM TRIO® connector line, the UTSX series shares a unique design of contacts that are interchangeable across several of our connector series, allowing you to simplify your supply chain and maintain the same cabling process across all ranges. The trio of contacts; machined, stamped and formed, and coaxial is used in different connector shapes with plastic or metal shells, bayonet or push-pull coupling mechanisms. For series that are intermateable, such as the UTS, UTGX and UTO series, you can easily switch from one series to the other across the applications in your operation.

Reliable connections in harsh environments

UTSX series connectors are waterproof, lightweight, withstand 250 mating cycles and are manufactured from materials that have UV and corrosion resistant properties. They are IP68/69K rated even in dynamic conditions and available with multiple contact layouts for design flexibility, including hybrid power/signal and hybrid copper/fiber.

Easy, quick and safe to use in a wide range of applications

The easy to grip connectors have a one-third bayonet coupling to confirm the connection with an audible and tactile click. The UTSX series is compliant with IEC and UL standards and resistant to shock, ensuring safe connections for installers and operators. The UTSX series is perfect for outdoor solar and wind management applications, as well as conditions where humidity or corrosive agents would compromise metal components – applications that range from off-road machinery to instrumentation and water management.



Table of contents

Overview **6**
Range overview 6
Technical specifications 8
Ordering information 9
Layouts size 10 10
Layouts size 12 11
Layouts size 14 12
Layouts size 16 13
Layouts size 18 15
Connectors **17**
Overmolded cable assembly 17
UTSX12E2 / UTSX12D2 19
UTSX103 23
UTSX142G1 28
UTSX12E3 / UTSX12D3 32
UTSX124 / UTSX12E4 / UTSX12D4 36
UTSX163G1 41
UTSX102W2 45
UTSX104 50
UTSX14E5 / 14D5 55
UTSX165 59
UTSX103W3 64
UTSX106 / UTSX10E6 / UTSX10D6 70
UTSX10E98 / UTSX10D98 75
UTSX186 79
UTSX147 / UTSX14E7 / UTSX14D7 84
UTSX10E7 / UTSX10D7 89
UTSX187G1 93
UTSX128 97
UTSX12E8 / UTSX12D8 102
UTSX148 106
UTSX16E8 / 16D8 112
UTSX169 116
UTSX1210 / UTSX12E10 / UTSX12D10 120
UTSX18E11 / 18D11 125
UTSX1412 129
UTSX14E12 / UTSX14D12 134
UTSX1492 138
UTSX1613 143
UTSX1813 148
UTSX12E14 / UTSX12D14 153
UTSX14E15 / UTSX14D15 157

UTSX14E18 / UTSX14D18 161
UTSX1419 / UTSX14E19 / UTSX14D19 165
UTSX1619 170
UTSX16E23 / 16D23 175
UTSX1823 179
UTSX1626 - 16E26 / 16D26 184
UTSX18E30 / 18D30 189
UTSX1832 - 18E32 / 18D32 193

Contacts 198

Description 198
Contact plating selector guide 198
Contact selector guide 199
Packaging 200
Crimp contacts 201
Coaxial contacts 203
PCB contacts 206
Fiber optic contacts 208

Technical information 210

Crimping tools for standard contacts 210
Crimping tools for specific contacts 210
M20S-1J crimp tool 211
Automatic crimping tools 212
Extraction tool for crimp contacts 212
Crimping instructions 213
Crimping control 214
Handle and interchangeable heads for crimp contacts 215
Mated connector length 216
Assembly instructions 217
Mating procedure 220
Rated current and working voltage 221
UV resistance 222
Ethernet basics 223

Appendix 225

Appendix A: Discrimination/Keying methods 225
Appendix B: Part number index 226






Souriau UTSX series

Range overview

UTSX series



Cable sealed



Plug without backshell



Plug with backshell

UTSX backshells

Cable sealing



Double sealing (wires + cable)



Grommet

Contacts supplied separately



Choice of crimp contacts

Machined / Stamped and formed / Coaxial

PCB
Fiber optic

Contacts loaded

Handsolder Screw

Plug



UTSX Hi-seal



Plug without backshell



Plug with backshell

Overmolded cable assembly



For more information on our overmolding solutions, please contact us.

UTSX standard receptacle

Square flange



Jam nut



Contacts supplied separately



Choice of crimp contacts
Machined / Stamped and formed / Coaxial

PCB
Fiber optic

UTSX backshells

Cable sealing only for square flange



Free hanging



Jam nut



Contacts supplied separately



Choice of crimp contacts
Machined / Stamped and formed / Coaxial
PCB
Fiber optic

Contacts loaded

Handsolder Screw

UTSX backshells

Cable sealing



Double sealing (wires + cable)



UTSX Hi-seal receptacle

Jam nut



Square flange



Contacts loaded

PCB
Handsolder

UTSX PCB contacts

Stand-offs to allow cleaning after soldering



Metal hold down clips lock the connector easily on the PCB and release stress on solder joints. They are also suitable for soldering the connector to the PCB through metal holes.

Pre-assembled PCB contacts
- machined or stamped versions available
- different solder tail lengths possible
- different plating options

Low profile housing to limit space between panel and PCB

Souriau UTSX series

Technical specifications



Technical features

Environmental

- Temperature class: 40/100/21 per NFF 61-030 from -40°C to +105°C
- Flammability rating:
  - UL94 V-0 (all UTSX except the sealed unmated version)
  - UL94 HB (UTSX sealed unmated version only)
  - R22 HL2 / R23 HL2 according to EN45545-2 (not applicable for hi-seal versions)
  - GWFI: 960°C
  - GWIT: 800°C
- Salt spray: per EIA-364-26: 500 hours
- UV resistant connector made with (f1) material according to UL746C
- Outdoor used following level 6/6P according to UL50/UL50E
- Aging validation: ISO 21207 Method B, 5 cycles. Corresponding to 27 years in an industrial environment
- Sealing:
  - UTSX standard: IP68/IP69K dynamic (mated)
  - UTSX sealed unmated version: IP68/IP69K dynamic (unmated)
  - UTSX single wire sealed: IP67/69K (up to IP68 with double sealing backshell)
  - UTSX screw termination contacts: IP68/IP69K dynamic (mated)

Note: IP68=10 m. underwater during 1 week

- Fluid resistance:
  - Gas and oil
  - Mineral oil
  - Acid bath
  - Basic bath

Materials

- Connector body and backshell: thermoplastic
- Insert:
  - UTSX standard, UTSX single wire sealed UTSX screw termination contacts: thermoplastic
  - UTSX Hi-seal: elastomer
- Nut: metal
- Locking ring: brass and stainless steel
- Contacts: see **Page 198**
- Halogen free
- RoHS compliant and conforms to the Chinese standard SJ/T1166-2006 (Chinese RoHS equivalent)

Electrical

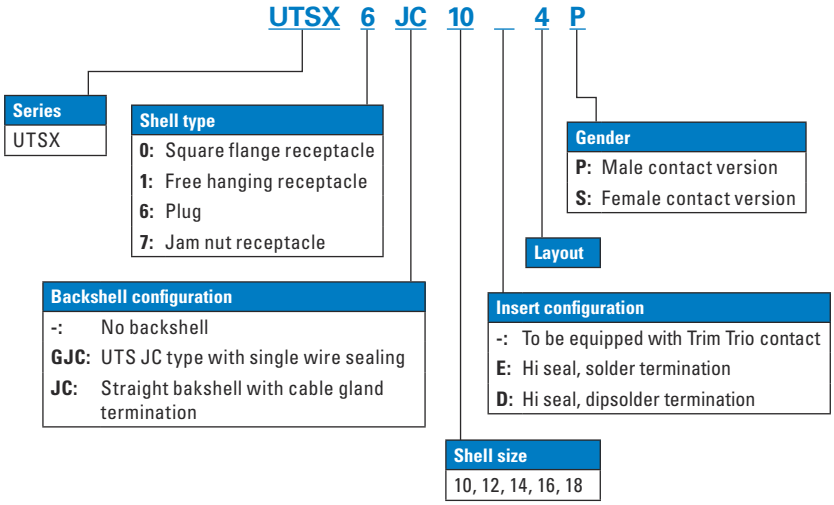
- In accordance with:
  - UL 1977: category ECBT2 file number: E169916
  - C22.2 n°182.3: category ECBT8 file number: E169916
- Voltage and current information available on **Page 10**

Mechanical

- Durability: 250 matings and unmatings according to MIL -C-26482
- Vibration resistance (all UTSX versions except UTSX screw termination contacts):
  - Sinusoidal vibrations per EN 60512-4 - from 10 to 2000 Hz
  - Sinusoidal vibrations according to CEI 60512-6-4
- Thermal shock: 5 cycles 30 min. from -40°C to 105°C per MIL -STD-1344 method 1003
- IK resistors: see table below for shock resistance

Connector type	Size 10	Size 12	Size 14	Size 16	Size 18
UTSX0 / UTSX6JC	IK03	IK05	IK05	IK04	IK06
UTSX7 / UTSX6JC	–	IK05	IK05	IK05	IK06

UTSX part numbers



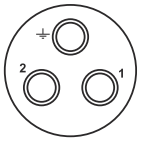
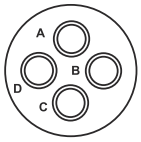
Souriau UTSX series

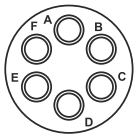
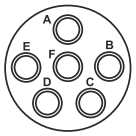
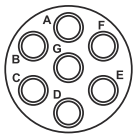
Layouts size 10

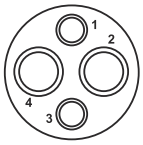
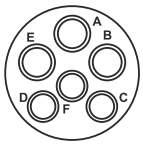
Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #16 (Ø 0.062"/1.6 mm)
Description (mating face view male connectors)	 103 16A/300V 2 + ground **Page 23**  104 13A/150V 4 contacts **Page 50**

Contacts	Contact #20 (Ø 0.039"/1.0 mm)
Description (mating face view male connectors)	 106 – 10E6/10D6 7A/32V 6 contacts **Page 70**  10E98/10D98 7A/32V 6 contacts **Page 75**  10E7/10D7 7A/50V 7 contacts **Page 89**

Contacts	Hybrid and others
Description (mating face view male connectors)	 102W2 25A/150V 4 contact 2 x Ø 2.4 (#12) + 2 x Ø 1.0 (#20) **Page 45**  103W3 5A/32V 6 contacts 3 x Ø 1.6 (#16) + 3 x Ø 1.0 (#20) **Page 64**

Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20:
from AWG 26 to 18
0.005" to 0.031"²
0.13 to 0.80 mm²

Contacts #16:
from AWG 30 to 14
0.002" to 0.098"²
0.05 to 2.5 mm²

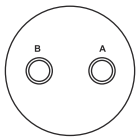
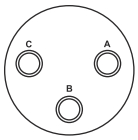
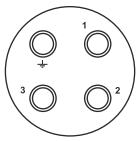
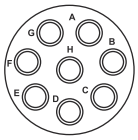
Contacts #12:
from AWG 20 to 12
0.005" to 0.157"²
0.52 to 4 mm²

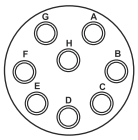
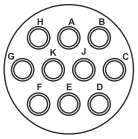
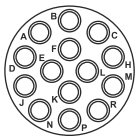
Contacts #8:
from AWG 16 to 8
0.059" to 0.393"²
1.5 to 10 mm²

Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #16 (Ø 0.062"/1.6 mm)
Description (mating face view male connectors)	 12E2/12D2 16A/150V 2 contacts **Page 23**  12E3/12D3 16A/150V 3 contacts **Page 32**  124 – 12E4/12D4 16A/150V 3 + ground **Page 36**  128 10A/80V 8 contacts **Page 97**

Contacts	Contact #20 (Ø 0.039"/1.0 mm)
Description (mating face view male connectors)	 12E8/12D8 6A/32V 8 contacts **Page 102**  1210 – 12E10/12D10 6A/50V 10 contacts **Page 120**  12E14/12D14 5A/32V 14 contacts **Page 153**

Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20:	Contacts #16:	Contacts #12:	Contacts #8:
from AWG 26 to 18	from AWG 30 to 14	from AWG 20 to 12	from AWG 16 to 8
0.005" to 0.031"²	0.002" to 0.098"²	0.020" to 0.157"²	0.059" to 0.393"²
0.13 to 0.80 mm²	0.05 to 2.5 mm²	0.52 to 4 mm²	1.5 to 10 mm²

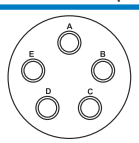
Souriau UTSX series

Layouts size 14

Layouts face male contact

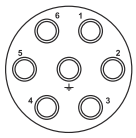
Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #16 (Ø 0.062"/1.6 mm)
Description (mating face view male connectors)	

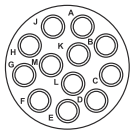
14E5/14D5
16A/150V
5 contacts

Page 55



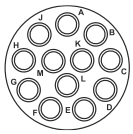
147 – 14E7/14D7
7A/150V
6 + ground

Page 84



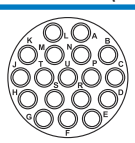
1412
10A/63V
12 contacts

Page 129



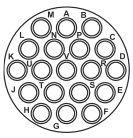
1492
10A/63V
12 contacts

Page 138

Contacts	Contact #20 (Ø 0.039"/1.0 mm)
Description (mating face view male connectors)	

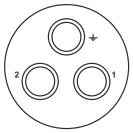
14E18/14D18
5A/50V
18 contacts

Page 161



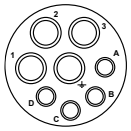
1419 – 14E19/14D19
5A/32V
19 contacts

Page 165

Contacts	Contact #8 (Ø 0.141"/3.6 mm)
Description (mating face view male connectors)	

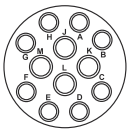
142G1
40A/300V
2 + ground

Page 28

Contacts	Mixed power
Description (mating face view male connectors)	

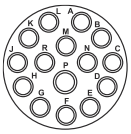
148
17A/230V
8 contacts
4 x Ø 1.6 (#16) +
3 x Ø 2.4 (#12)
+ ground

Page 106



14E12/14D12
4A/50V
12 contacts
4 x Ø 1.6 (#16) +
8 x Ø 1.0 (#20)

Page 134



14E15/14D15
4A/50V
15 contacts
1 x Ø 1.6 (#16) +
14 x Ø 1.0 (#20)

Page 157

Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20:
from AWG 26 to 18
0.005" to 0.031"²
0.13 to 0.80 mm²

Contacts #16:
from AWG 30 to 14
0.002" to 0.098"²
0.05 to 2.5 mm²

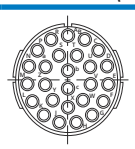
Contacts #12:
from AWG 20 to 12
0.020" to 0.157"²
0.52 to 4 mm²

Contacts #8:
from AWG 16 to 8
0.059" to 0.393"²
1.5 to 10 mm²

Layouts face male contact

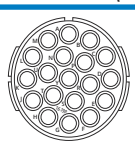
Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #20 (Ø 0.039"/1.0 mm)
Description (mating face view male connectors)	

1626 - 16E26/16D26
4.5A/32V
26 contacts

Page 184

Contacts	Contact #16 (Ø 0.062"/1.6 mm)
Description (mating face view male connectors)	

1619
8A 32V
19 contacts

Page 170



16E8/16D8
13A/80V
8 contacts

Page 112

Contacts	Contact #12 (Ø 0.094"/2.4 mm)
Description (mating face view male connectors)	

169
22A/160V
9 contacts

Page 116

Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20:
from AWG 26 to 18
0.005" to 0.031"²
0.13 to 0.80 mm²

Contacts #16:
from AWG 30 to 14
0.002" to 0.098"²
0.05 to 2.5 mm²

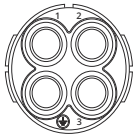
Contacts #12:
from AWG 20 to 12
0.020" to 0.157"²
0.52 to 4 mm²

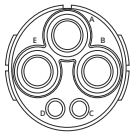
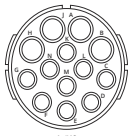
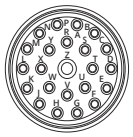
Contacts #8:
from AWG 16 to 8
0.059" to 0.393"²
1.5 to 10 mm²

Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #8 (Ø 0.141"/3.6 mm)
Description (mating face view male connectors)	 163G1 46A/400V 3 + ground **Page 41**

Contacts	Mixed power
Description (mating face view male connectors)	 165 46A/320V 5 contacts 2 x Ø1.6 (#16) 3 x Ø 3.6 (#8) **Page 59**  1613 23A/160V 13 contacts 4 x Ø2.4 (#12) 9 x Ø1.6 (#16) **Page 143**  16E23/16D23 13A/32V 23 contacts 22 x Ø1.0 (#20) 1 x Ø1.6 (#16) **Page 175**

Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20:
from AWG 26 to 18
0.005" to 0.031"²
0.13 to 0.80 mm²

Contacts #16:
from AWG 30 to 14
0.002" to 0.098"²
0.05 to 2.5 mm²

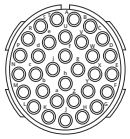
Contacts #12:
from AWG 20 to 12
0.020" to 0.157"²
0.52 to 4 mm²

Contacts #8:
from AWG 16 to 8
0.059" to 0.393"²
1.5 to 10 mm²

Layouts face male contact

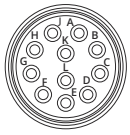
Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #20 (Ø 0.039"/1.0 mm)
Description (mating face view male connectors)	

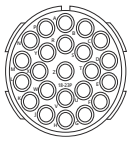
1832 - 18E32/18D32
4A/32V
32 contacts

Page 193

Contacts	Contact #16 (Ø 0.062"/1.6 mm)
Description (mating face view male connectors)	

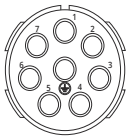
18E11/18D11
13A/40V
11 contacts

Page 125



1823
8A/16V
23 contacts

Page 179

Contacts	Contact #12 (Ø 0.094"/2.4 mm)
Description (mating face view male connectors)	

187G1
23A/250V
7 + ground

Page 93

Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20:
from AWG 26 to 18
0.005" to 0.031"²
0.13 to 0.80 mm²

Contacts #16:
from AWG 30 to 14
0.002" to 0.098"²
0.05 to 2.5 mm²

Contacts #12:
from AWG 20 to 12
0.020" to 0.157"²
0.52 to 4 mm²

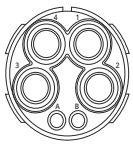
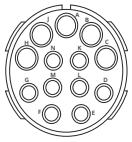
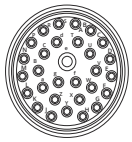
Contacts #8:
from AWG 16 to 8
0.059" to 0.393"²
1.5 to 10 mm²

Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #8 (Ø 0.141"/3.6 mm)
Description (mating face view male connectors)	

Contacts	Mixed power
Description (mating face view male connectors)	 186 46A/320V 6 contacts 4 x Ø3.6 (#8) 2 x Ø1.6 (#16) **Page 79**  1813 23A/160V 13 contacts 5 x Ø2.4 (#12) 8 x Ø1.6 (#16) **Page 148**  18E30/18D30 13A/20V 30 contacts 29 x Ø1.0 (#20) 1 x Ø1.6 (#16) **Page 189**

Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20:
from AWG 26 to 18
0.005" to 0.031"²
0.13 to 0.80 mm²

Contacts #16:
from AWG 30 to 14
0.002" to 0.098"²
0.05 to 2.5 mm²

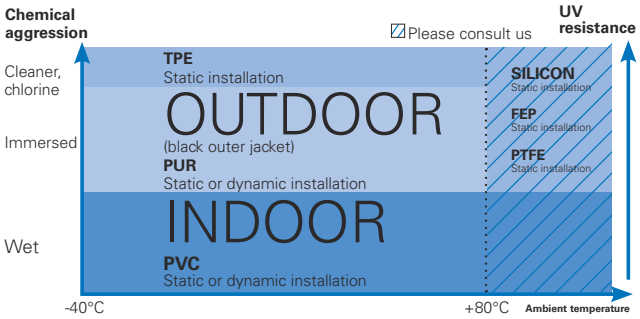
Contacts #12:
from AWG 20 to 12
0.020" to 0.157"²
0.52 to 4 mm²

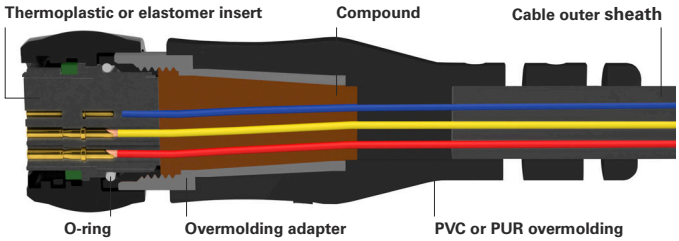
Contacts #8:
from AWG 16 to 8
0.059" to 0.393"²
1.5 to 10 mm²

Overmolded cable assembly

Overmolding is a process that further enhances the sealing properties of the UTSX series, especially over many years of use. Overmolding provides the opportunity to change the cable exit from straight to 90 degrees and avoid stress on the cable terminated to the connector. Also, as the wires are encapsulated inside the moulding, a barrier is created which prevents any liquid from entering the equipment through the connector if the cable jacket is breached.

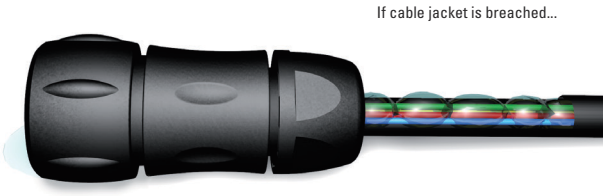
How to choose the outer jacket material





Connector with cable gland backshell

GOOD



...water ingress unhampered, leading to damage.

Overmolded connector

BEST



...prevents water ingress via capillary action.

Souriau UTSX series

Overmolded cable assembly

UTSX waterproof plastic overmold



HAUTSX standard offering

Cable

- PVC outer sheath (grey color)
- Wire section 16 AWG for #16 contact
- Wire section 20 AWG for #20 contact
- 300V
- Unshielded
- Operating temperature: -40°C +70°C

Overmolding specifications

Plating	Salt spray	Temperature*	Waterproof*	Mechanical
No plating	500 H	-30°C up to + 50°C	IP68/IP69K dynamic (mated)	250 matings/unmatings

* With appropriate cable and overmolding

Cable information

Range of temperature	Rated voltage	Wire section	Harmonized reference
-30°C +50°C	U0/U: 300/500V	Layouts with #16 contact: wire section 0.196"² (5 mm²)	H05 VV - F XX

Example of customized cable assemblies



Overmolding on curly cable



Overmolding with double ends

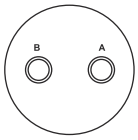


Harness for PCB connection



Connector part number

UTSX 12E2/12D2



2 contacs + ground
13A/600V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 21**	Square flange receptacle	Without (Fig. 1)	**UTSX012E2P**	**UTSX012E2S**
	Plug	Without (Fig. 5)	**UTSX612E2P**	**UTSX612E2S**
		Cable gland (Fig. 3)	**UTSX6JC12E2P**	**UTSX6JC12E2S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX712E2P**	**UTSX712E2S**
PCB contacts loaded see **Page 21**	Square flange receptacle	Without (Fig. 2)	**UTSX012D2P**	**UTSX012D2S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX712D2P**	**UTSX712D2S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX712D2P32**	**UTSX712D2S32**

For discrimination/keying methods see **Page 223**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

12E2/12D2 (Shell size 12, 2x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

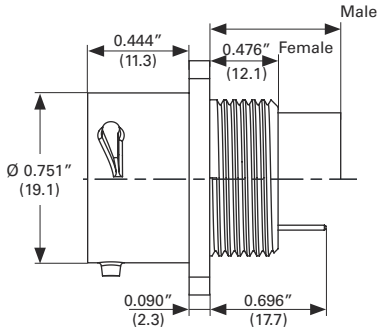
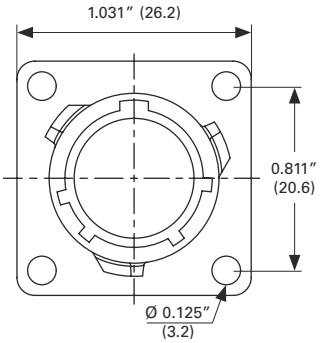


Fig. 1



Plug - UTSX6 and UTSX6JC

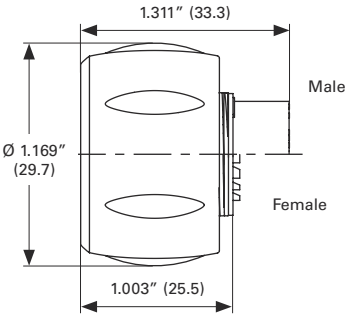


Fig. 2

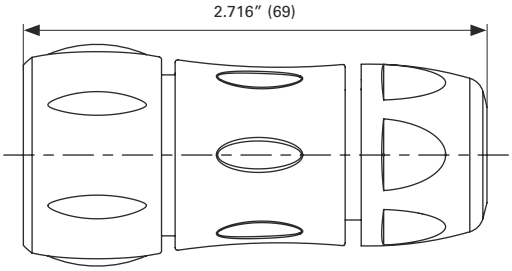


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Jam nut receptacle UTSX7

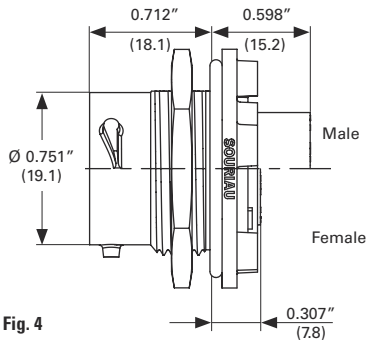


Fig. 4

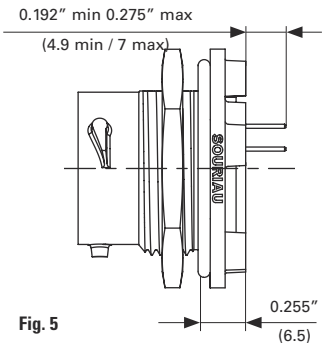


Fig. 5

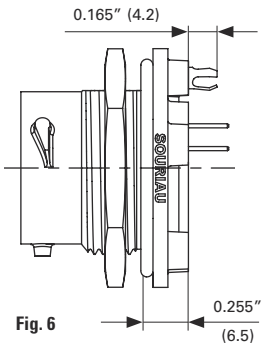
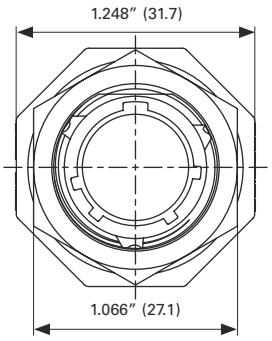
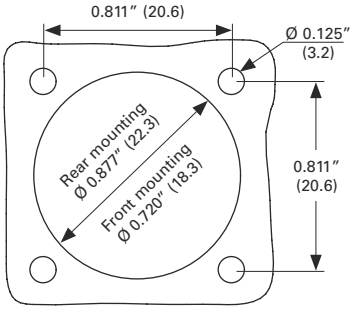


Fig. 6

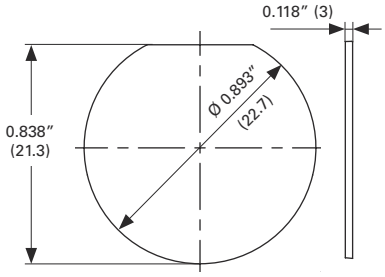


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS12DCG**
IP68 - Metal terminal	**UTS12DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS12DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX612DCG**

Plastic protective cap



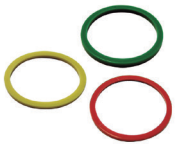
Part number receptacle cap	Part number plug cap
85005587A	**85005596**

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS712CCRG**	**UTS612CCRG**
Y for Yellow	**UTS712CCRY**	**UTS612CCRY**
R for Red	**UTS712CCRR**	**UTS612CCRR**

Souriau UTSX series

12E2/12D2 (Shell size 12, 2x#16)

Contacts #16

Contact type	Plating	Cable acceptance (AWG)	Cable acceptance inch²	Cable acceptance mm²	Wire stripping length inch	Wire stripping length mm
Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	18-14	0.031"-0.098"	0.80-2.48	0.196"	5
PCB Machined (1)	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–

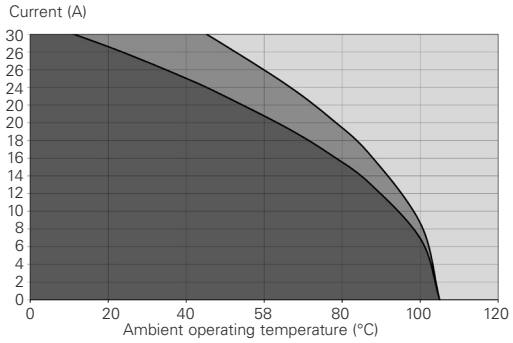
(1) For dimensions see **Page 205**

Electrical characteristics

UL	CSA	IEC
13A 600V with AWG16 wire	13A 600V with AWG16 wire	16A 150V 2.5kV 3

Electrical information according to the IEC 61984, with pollution degree IV and overvoltage category III.

UTSX 12E2/12D2 derating curves



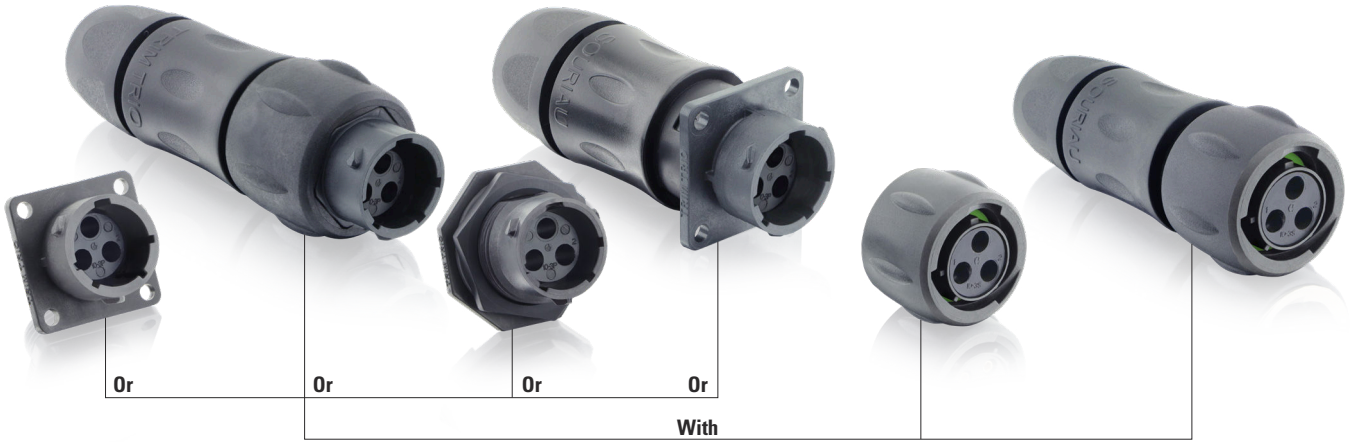
Derating curves based on continuous current application.

- Current use
- Limited use
- Not recommended use

Test conditions

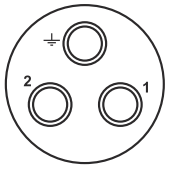
Contact used: machined contacts
Wires used: 16 AWG

103 (Shell size 10, 2 + ground, 3x#16)



Connector part number

UTSX 103



2 contacts + ground 10A/500V per UL 1977 with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 26**	Square flange receptacle	Without (Fig. 1)	**UTSX0103P**	**UTSX0103S**
		Cable gland (Fig. 2)	**UTSX0JC103P**	**UTSX0JC103S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC103P**	**UTSX1JC103S**
	Plug	Without (Fig. 4)	**UTSX6103P**	**UTSX6103S**
		Cable gland (Fig. 5)	**UTSX6JC103P**	**UTSX6JC103S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7103P**	**UTSX7103S**
PCB contacts supplied separately see **Page 27**	Jam nut receptacle	Without (Fig. 7)	**UTSX7103P**	**UTSX7103S**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

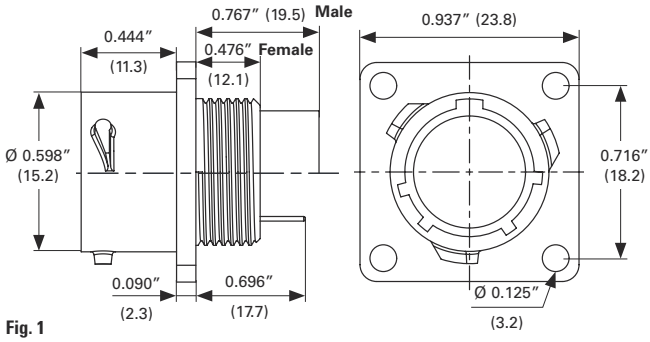


Fig. 1

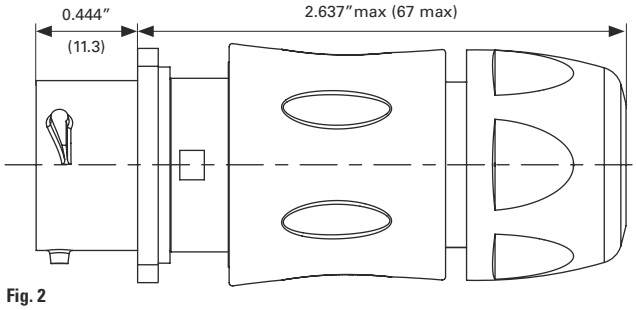


Fig. 2

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″ (2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Free hanging - UTSX1JC

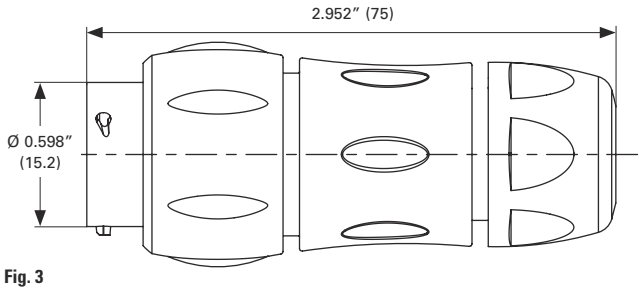


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″ (2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Plug - UTSX6 and UTSX6JC

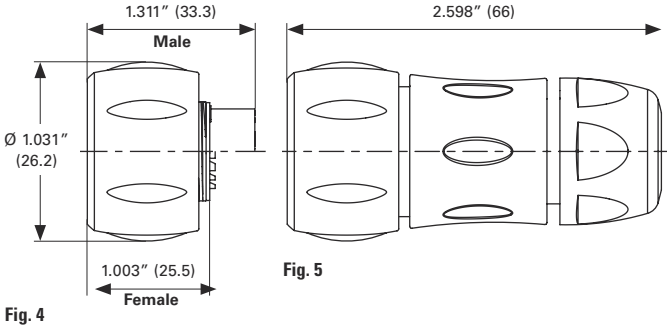


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″ (2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Jam nut receptacle UTSX7

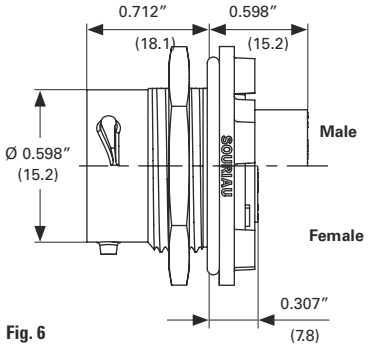


Fig. 6

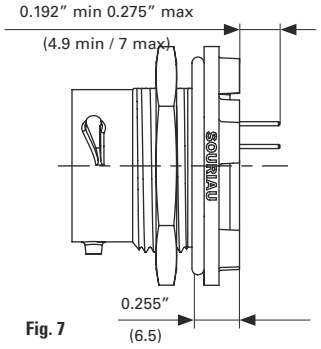
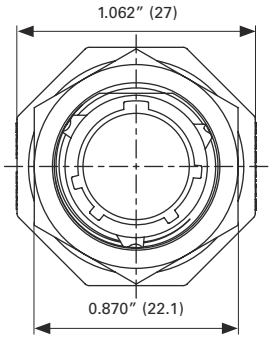
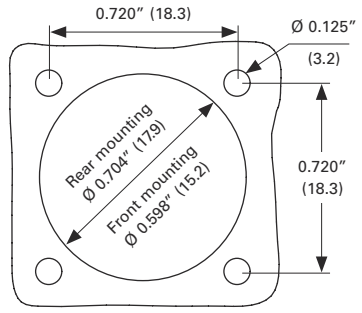


Fig. 7

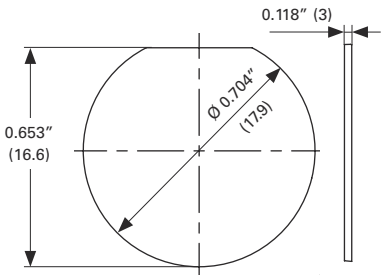


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS10DCG**
IP68 - Metal terminal	**UTS10DCGR**

Square flange sealing cap



Description	Part number
IP68-Metal terminal	**UTS10DCGE**

Plastic protective cap



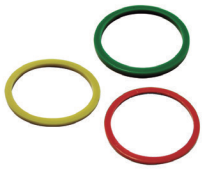
Part number receptacle cap	Part number plug cap
85005586A	**85005595**

Plug sealing cap



Description	Part number
IP68	**UTX610DCG**

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS710CCRG**	**UTS610CCRG**
Y for Yellow	**UTS710CCRY**	**UTS610CCRY**
R for Red	**UTS710CCRR**	**UTS610CCRR**

Souriau UTSX series

103 (Shell size 10, 2 + ground, 3x#16)

Tooling

#20 and #16 stamped or machined contacts





Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Handle + Head = Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K(1)	S16RCM20*
	RM/RC 24M9K(1)	S16RCM20*
	RM/RC 20M13K(1)	S16RCM20*
	RM/RC 20M12K(1)	S16RCM20*
	RM/RC 16M23K(1)	S16RCM16*
	RM/RC 14M30K(1)	S16RCM14*
	SM/SC 24ML1TK6(1)	S16SCM20*
	SM/SC 20ML1TK6(1)	S16SCM20*
	SM/SC 16ML1TK6(1)	S16SCML1*
	SM/SC 14ML1TK6(1)	S16SCML1*
	SM/SC 16ML11TK6(1)	S16SCML11*

(1) Example of plating, for other plating options see **Page 198**

* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See **Page 210**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Dimensions in inches (millimeters)

Contacts #16

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	**Contact type**	**AWG**	**inch²**	**mm²**	**Male**	**Female**	**inch**	**mm**	**inch**	**mm**
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 202**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 202**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 202**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 202**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–

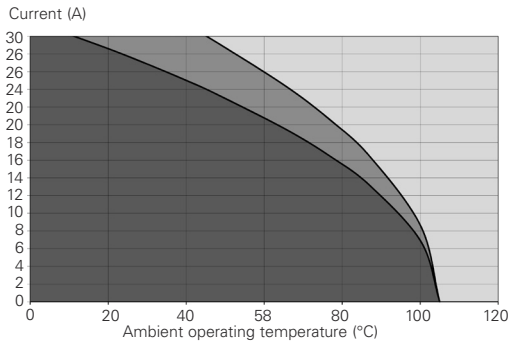
(1) Example of plating, for other plating see **Page 198**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) For dimensions see **Page 205**

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	7A 500V with AWG16 wire	16A 300V 4kV 3 temperature elevation: 50°C

Electrical information according to the IEC 61984, with pollution degree IV and overvoltage category III.

UTSX 103 derating curves



Current use
Limited use
Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

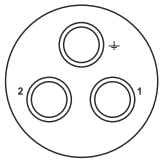
Souriau UTSX series

142G1 (Shell size 14, 2 + ground, 3x#8)



Connector part number

UTSX 142G1



2 contacts + ground
Up to 44A/600V per UL 1977 with AWG8 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 31**	Square flange receptacle	Without (Fig. 1)	**UTSX0142G1P**	**UTSX0142G1S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC142G1P**	**UTSX0JC142G1S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC142G1P**	**UTSX1JC142G1S**
	Plug	Without (Fig. 4)	**UTSX6142G1P**	**UTSX6142G1S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC142G1P**	**UTSX6JC142G1S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7142G1P**	**UTSX7142G1S**
PCB contacts supplied separately see **Page 31**	Jam nut receptacle	Without (Fig. 7)	**UTSX7142G1P**	**UTSX7142G1S**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

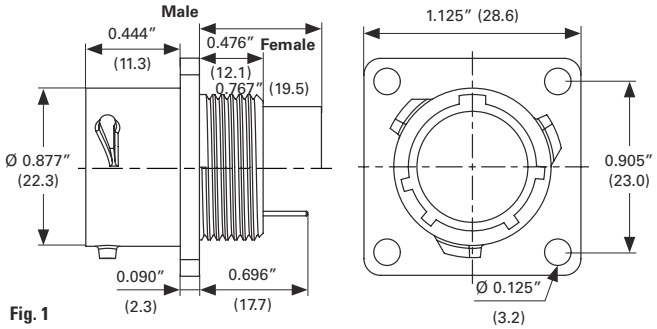


Fig. 1

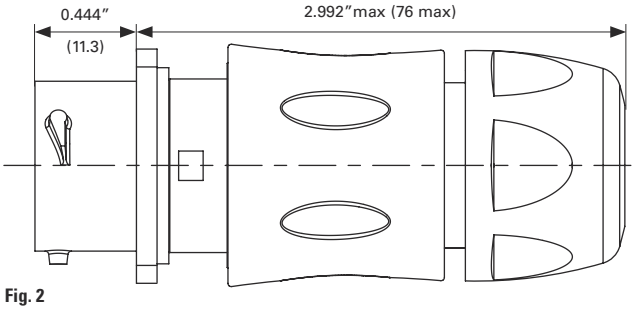


Fig. 2

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″(7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Free hanging - UTSX1JC

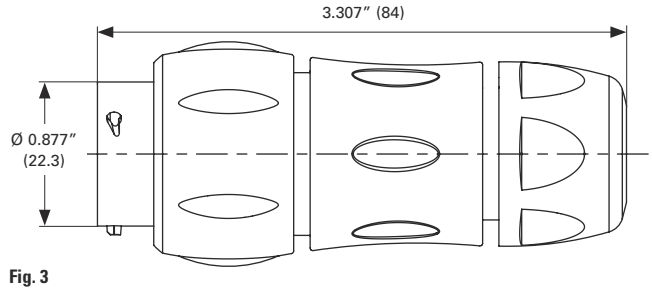


Fig. 3

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Plug - UTSX6 and UTSX6JC

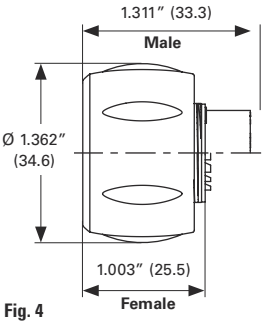


Fig. 4

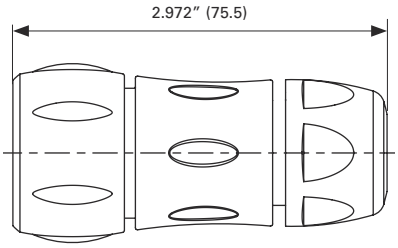


Fig. 5

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″(7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Jam nut receptacle UTSX7

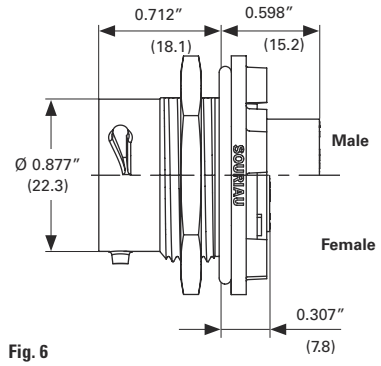


Fig. 6

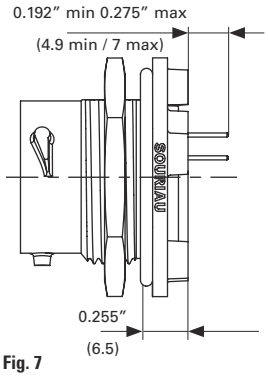
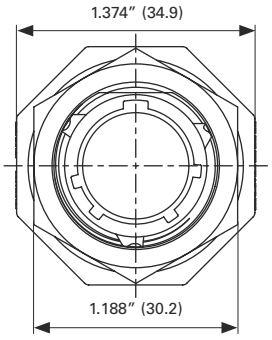
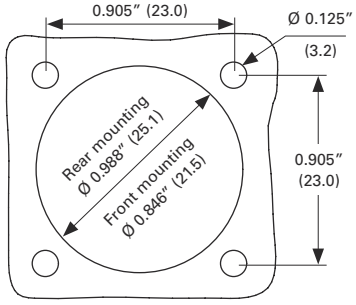


Fig. 7

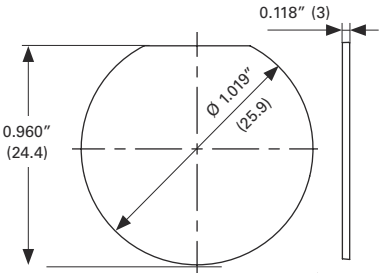


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

142G1 (Shell size 14, 2 + ground, 3x#8)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS14DCG**
IP68 - Metal terminal	**UTS14DCGR**

Plug sealing cap



Description	Part number
IP68	**UTX614DCG**

Plastic protective cap



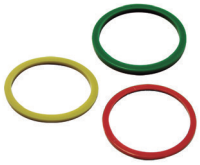
Part number receptacle cap	Part number plug cap
85005588A	**85005597**

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS714CCRG**	**UTS614CCRG**
Y for Yellow	**UTS714CCRY**	**UTS614CCRY**
R for Red	**UTS714CCRR**	**UTS614CCRR**

Square flange sealing cap



Description	Part number
IP68-Metal terminal	**UTS14DCGE**

Tooling

#8 machined contacts



Description	Part number
Shandle only	**M317**

Positioner + Locator setting #8



Description	Part number
For crimp contacts #8 Ø 0.141" (3.6)	**VGE10078A**

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 210**

Extraction tool #8



Description	Part number
For crimp contacts #8 Ø 0.141" (3.6)	**51060210936**

Contacts #8

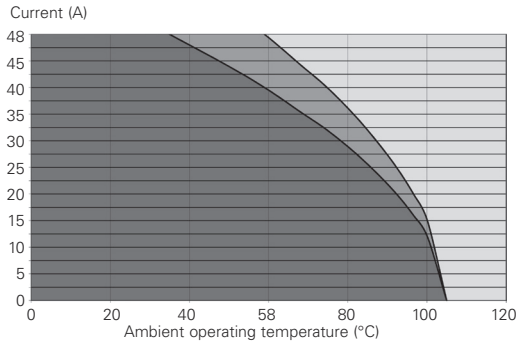
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	16	0.059"	1.48	**82913601A**(1)	**82913600A**(1)	0.067"	1.72	0.255"	6.5
Crimp contacts	Machined	14	0.098"	2.48	**82913603A**(1)	**82913602A**(1)	0.087"	2.20	0.255"	6.5
Crimp contacts	Machined	12	0.157"	4.00	**82913605A**(1)	**82913604A**(1)	0.111"	2.82	0.255"	6.5
Crimp contacts	Machined	10	0.236"	6.00	**82913607A**(1)	**82913606A**(1)	0.137"	3.48	0.255"	6.5
Crimp contacts	Machined	8	0.393"	10.00	**82913609A**(1)	**82913608A**(1)	0.171"	4.35	0.255"	6.5
PCB	Machined (2)	–			**82911685NPC**(1)	**82911684NPC**(1)	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
44A 600V with AWG8 wire	34A 600V with AWG8 wire	40A 300V 4kV 3

UTSX 142G1 derating curves



Derating curves based on continuous current application.

- Current use
- Limited use
- Not recommended use

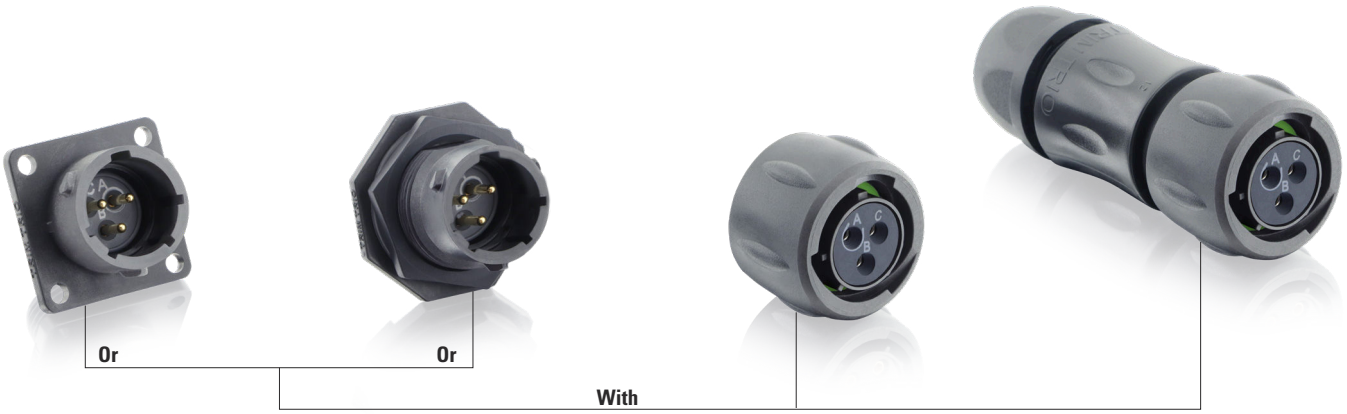
Test conditions

Contact used: machined contacts
Wires used: 8 AWG

Dimensions in inches (millimeters)

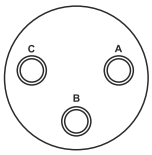
Souriau UTSX series

12E3/12D3 (Shell size 12, 3x#16)



Connector part number

UTSX 12E3/12D3



3 contacts
13A/600V per
UL 1977 with
AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 35**	Square flange receptacle	Without (Fig. 1)	**UTSX012E3P**	**UTSX012E3S**
	Plug	Without (Fig. 2)	**UTSX612E3P**	**UTSX612E3S**
	Plug	Cable gland (Fig. 3)	**UTSX6JC12E3P**	**UTSX6JC12E3S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX712E3P**	**UTSX712E3S**
PCB contacts loaded see **Page 35**	Square flange receptacle	Without (Fig. 2)	**UTSX012D3P**	**UTSX012D3S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX712D3P**	**UTSX712D3S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX712D3P32**	**UTSX712D3S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

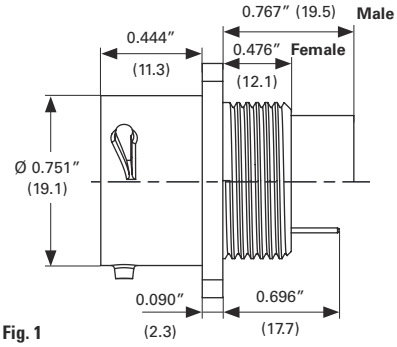
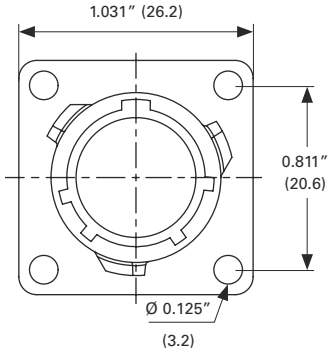


Fig. 1



Plug - UTSX6 and UTSX6JC

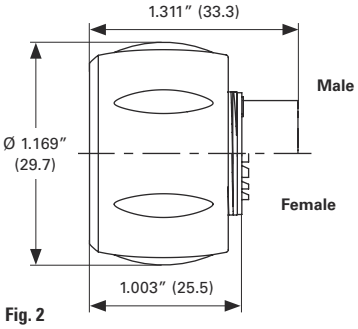


Fig. 2

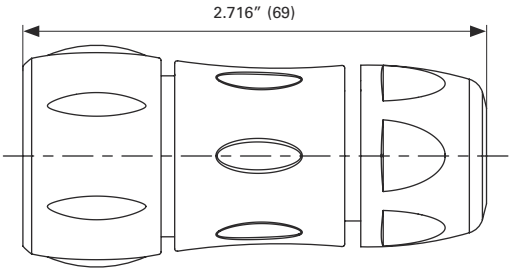


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Jam nut receptacle UTSX7

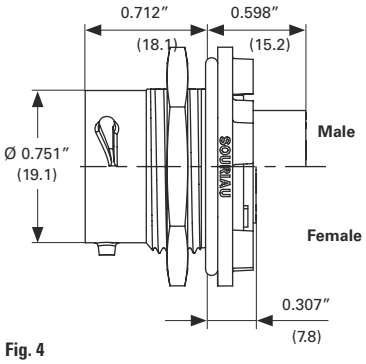


Fig. 4

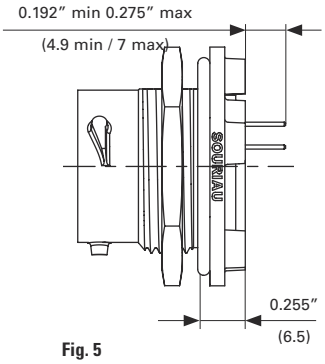


Fig. 5

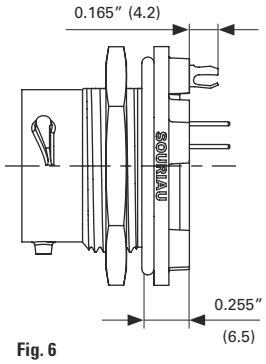
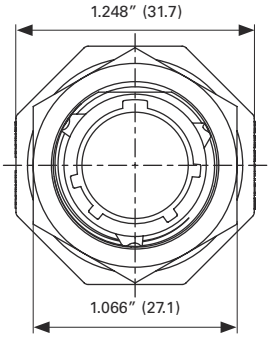
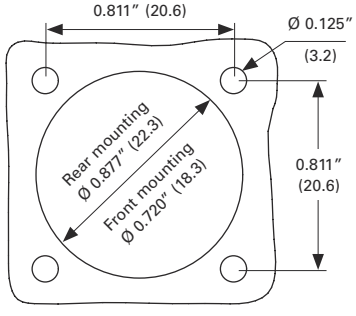


Fig. 6

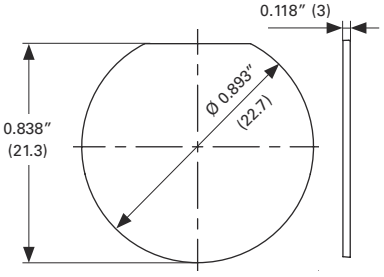


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

12E3/12D3 (Shell size 12, 3x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS12DCG**
IP68 - Metal terminal	**UTS12DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS12DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX612DCG**

Plastic protective cap



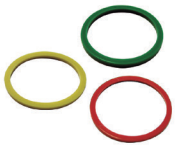
Part number receptacle cap	Part number plug cap
85005587A	**85005596**

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS712CCRG**	**UTS612CCRG**
Y for Yellow	**UTS712CCRY**	**UTS612CCRY**
R for Red	**UTS712CCRR**	**UTS612CCRR**

Contacts #16

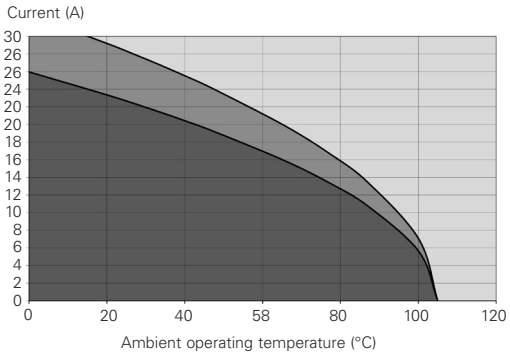
Contact type	Plating	Cable acceptance (AWG)	Cable accepance inch²	Cable accepance mm²	Wire stripping length inch	Wire stripping length mm
Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	18-14	0.031"-0.098"	0.80-2.48	0.196"	5
PCB Machined (1)	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–

(1) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
13A 600V with AWG16 wire	13A 600V with AWG16 wire	16A 150V 2.5kV 3

UTSX 12E3/12D3 derating curves



Current use
Limited use
Not recommended use

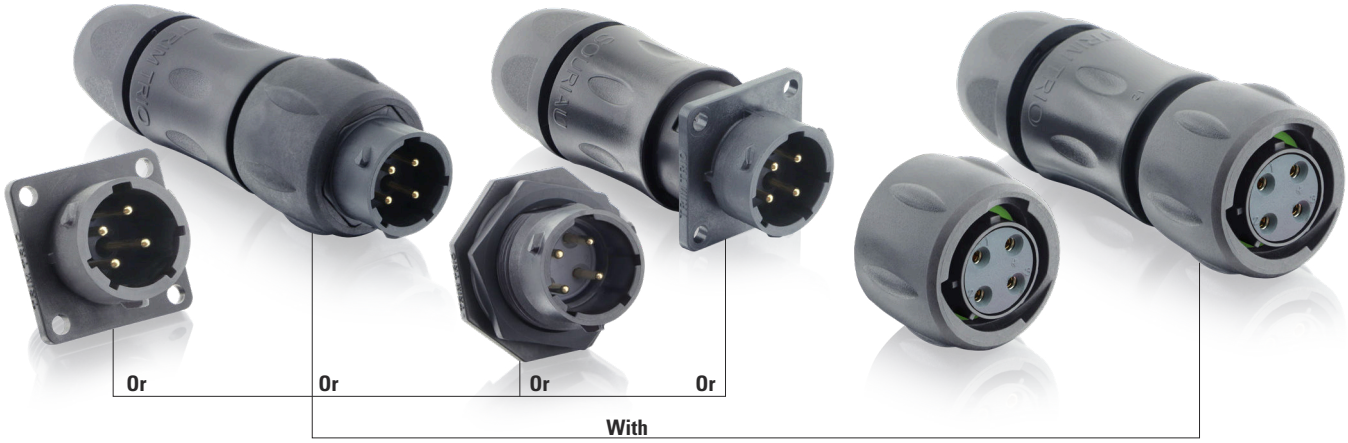
Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

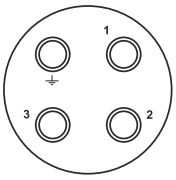
Souriau UTSX series

124 - 12E4/12D4 (Shell size 12, 3 + ground, 4x#16)



Connector part number

UTSX



124

3 contacts + ground
16A/500V per UL 1977
with AWG14 wire

12E4/12D4

3 contacts + ground
10A/600V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 40**	Square flange receptacle	Without (Fig. 1)	**UTSX0124P**	**UTSX0124S**
		Cable gland (Fig. 2)	**UTSX0JC124P**	**UTSX0JC124S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC124P**	**UTSX1JC124S**
	Plug	Without (Fig. 4)	**UTSX6124P**	**UTSX6124S**
		Cable gland (Fig. 5)	**UTSX6JC124P**	**UTSX6JC124S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7124P**	**UTSX7124S**
Screw contacts loaded	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC124PSCR**	–
	Plug	Cable gland (Fig. 5)	**UTSX6JC124PSCR**	**UTSX6JC124SSCR**
	Jam nut receptacle	Without (Fig. 9)	**UTSX7124PSCR**	**UTSX7124SSCR**
PCB contacts supplied separately see **Page 40**	Square flange receptacle	Without (Fig. 1)	**UTSX0124P**	**UTSX0124S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX7124P**	**UTSX7124S**
Handsolder electrical contacts loaded see **Page 40**	Square flange receptacle	Without (Fig. 1)	**UTSX012E4P**	**UTSX012E4S**
	Plug	Without (Fig. 4)	**UTSX612E4P**	**UTSX612E4S**
		Cable gland (Fig. 5)	**UTSX6JC12E4P**	**UTSX6JC12E4S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX712E4P**	**UTSX712E4S**
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	**UTSX012D4P**	**UTSX012D4S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX712D4P**	**UTSX712D4S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX712D4P32**	**UTSX712D4S32**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

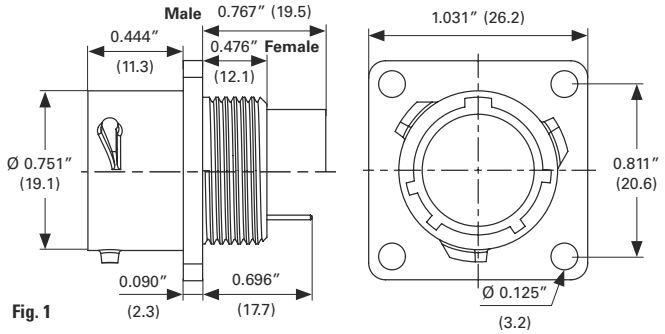


Fig. 1

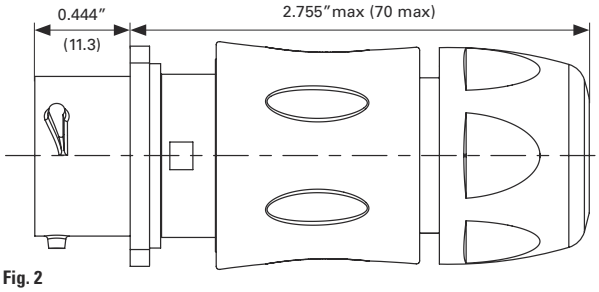


Fig. 2

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Free hanging - UTSX1JC

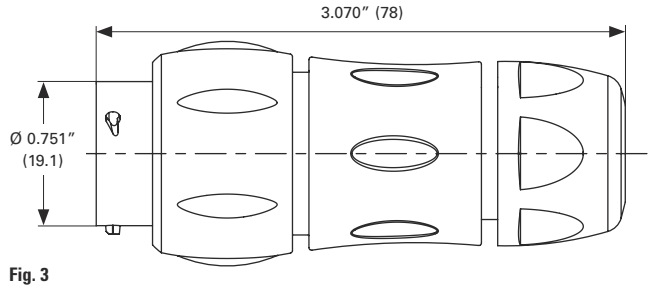


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Plug - UTSX6 and UTSX6JC

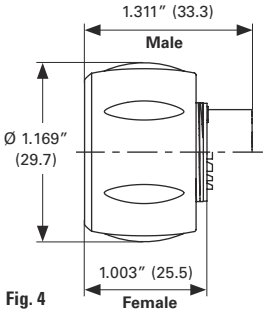


Fig. 4

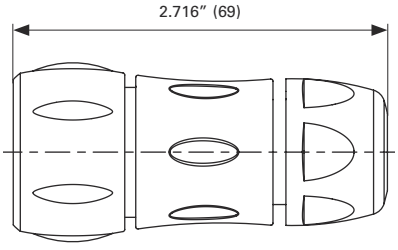


Fig. 5

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Jam nut receptacle UTSX7

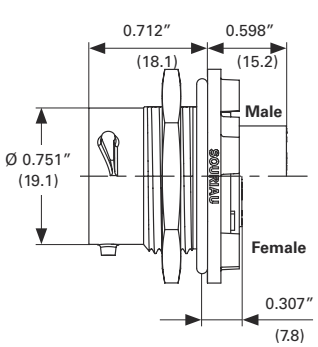


Fig. 6

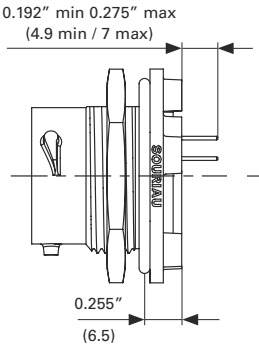


Fig. 7

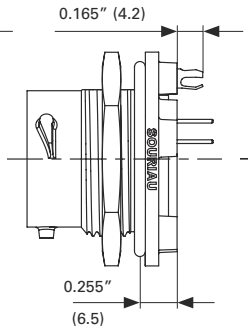


Fig. 8

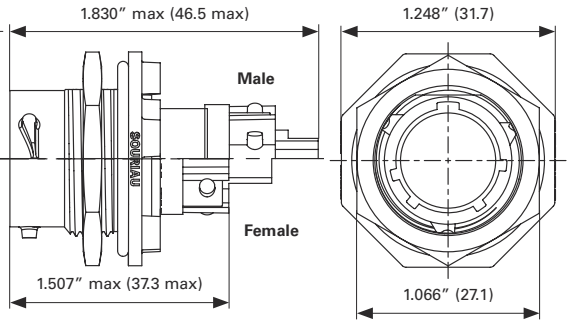
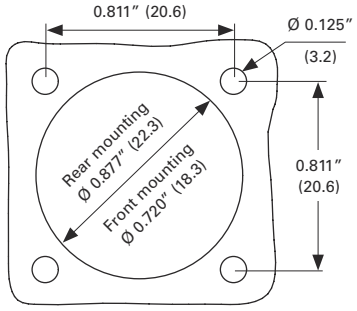


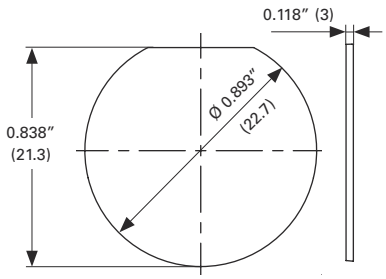
Fig. 9

Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

124 - 12E4/12D4 (Shell size 12, 3 + ground, 4x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS12DCG**
IP68 - Metal terminal	**UTS12DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS12DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX612DCG**

Plastic protective cap



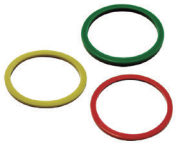
Part number receptacle cap	Part number plug cap
85005587A	**85005596**

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS712CCRG**	**UTS612CCRG**
Y for Yellow	**UTS712CCRY**	**UTS612CCRY**
R for Red	**UTS712CCRR**	**UTS612CCRR**

Tooling

#16 stamped or machined contacts

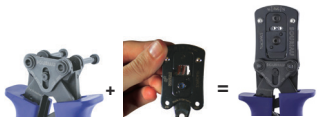




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle + Head = Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K(1)**	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 198**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 211**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Souriau UTSX series

124 - 12E4/12D4 (Shell size 12, 3 + ground, 4x#16)

Contacts #16

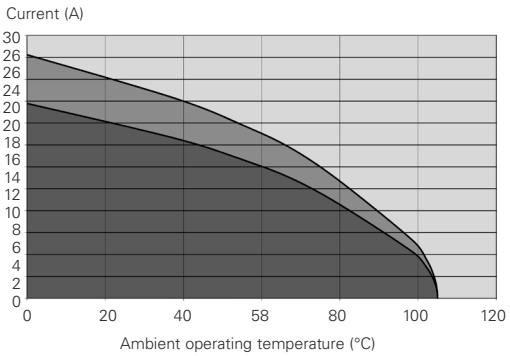
		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	**Contact type**	**AWG**	**inch²**	**mm²**	**Male**	**Female**	**inch**	**mm**	**inch**	**mm**
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**[1]	**RC28M1K**[1]	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**[1]	**RC24M9K**[1]	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**[1]	**RC20M13K**[1]	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**[1]	**RC20M12K**[1]	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**[1]	**RC16M23K**[1]	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**[1]	**RC14M30K**[1]	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note [2] for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**[1][2]	**SC24M1TK6**[1][2]	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**[1][2]	**SC20M1TK6**[1][2]	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**[1][2]	**SC16M1TK6**[1][2]	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**[1][2]	**SC16M11TK6**[1][2]	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**[1][2]	**SC14M1TK6**[1][2]	–	–	0.125"	3.20
PCB	Machined [3]	–			**RM20M12E83K**[1]	**RC20M12E84K**[1]	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp				**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece				**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp				**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6 (3): For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
UTSX 124 16A 500V with AWG14 wire	16A 500V with AWG14 wire	16A 150V 2.5kV 3 temperature elevation: 50°C
UTSX 12E4/12D4 10A 500V with AWG16 wire	10A 500V with AWG16 wire	16A 150V 2.5kV 3 temperature elevation: 50°C

UTSX 124 - 12E4/12D4 derating curves

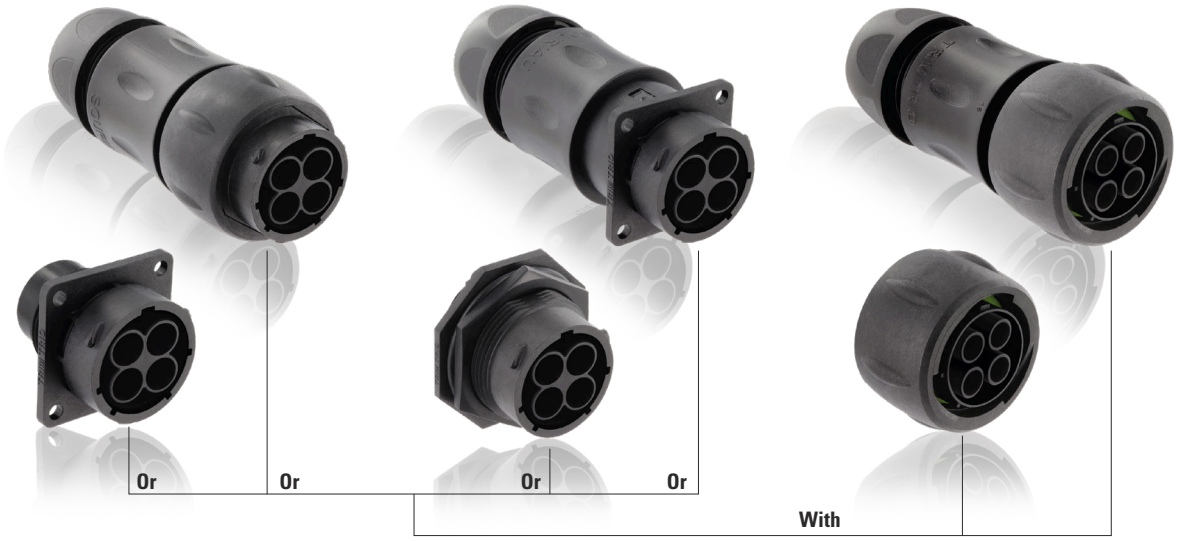


Current use
Limited use
Not recommended use

Test conditions

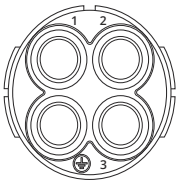
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 163G1



3 contacts + ground
46A/600V per UL 1977
with AWG8 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 44**	Square flange receptacle	Without (Fig. 1)	**UTSX0163G1P**	**UTSX0163G1S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC163G1P**	**UTSX0JC163G1S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC163G1P**	**UTSX1JC163G1S**
	Plug	Without (Fig. 4)	**UTSX6163G1P**	**UTSX6163G1S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC163G1P**	**UTSX6JC163G1S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7163G1P**	**UTSX7163G1S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX7163G1P32**	**UTSX7163G1S32**
PCB contacts supplied separately see **Page 44**	Square flange receptacle	Without (Fig. 1)	**UTSX0163G1P**	**UTSX0163G1S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX7163G1P**	**UTSX7163G1S**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

163G1 (Shell size 16, 3 + ground, 4x#8)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

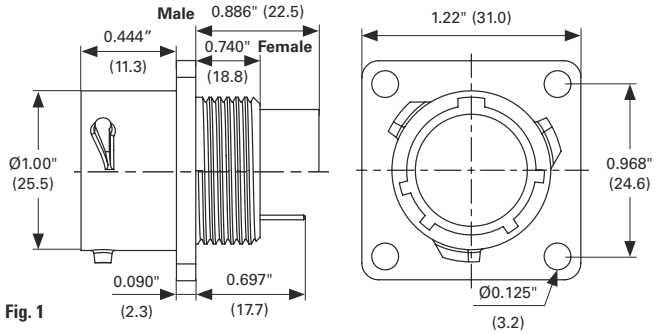


Fig. 1

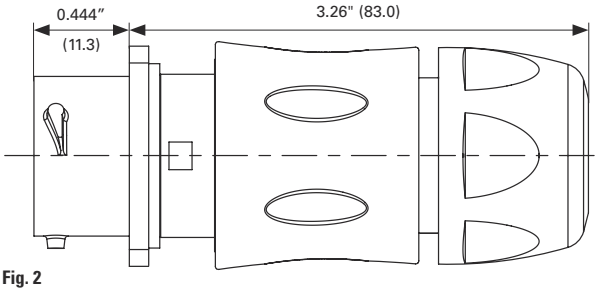


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

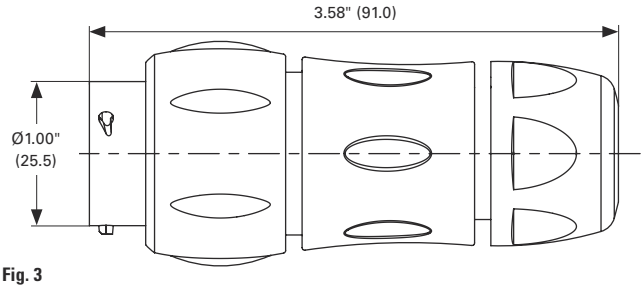


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

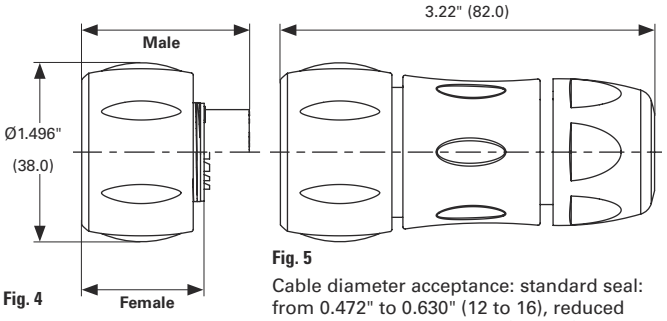


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

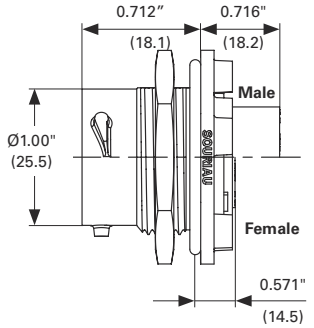


Fig. 6

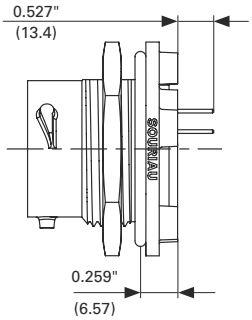


Fig. 7

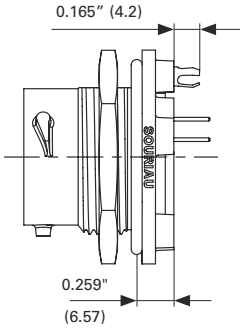
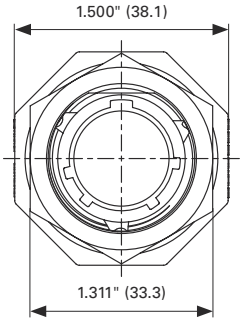
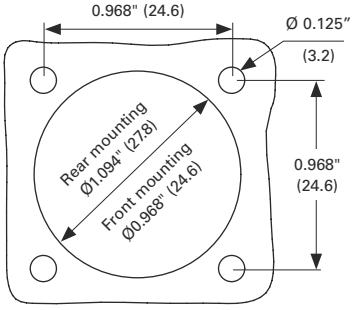


Fig. 8

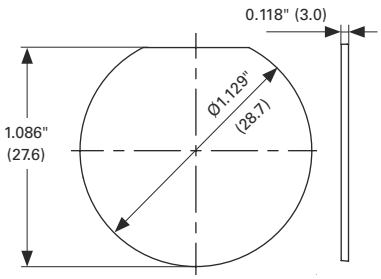


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS16DCG**
IP68 - Metal terminal	**UTS16DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS16DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX616DCG**

Plastic protective cap



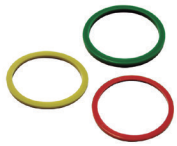
Part number receptacle cap	Part number plug cap
85005589A	**85005598**

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS716CCRG**	**UTS616CCRG**
Y for Yellow	**UTS716CCRY**	**UTS616CCRY**
R for Red	**UTS716CCRR**	**UTS616CCRR**

Tooling

#8 Machine contacts



Contact size	Part number
Shandle only	**M317**

Positioner + Locator setting #8



Contact size	Part number
For Crimp Contacts #8 Ø 0.141" (3.6)	**VGE10078A**

Extraction tool #8



Description	Part number
For Crimp Contacts #8 Ø 0.141" (3.6)	51060210936

Souriau UTSX series

163G1 (Shell size 16, 3 + ground, 4x#8)

Contacts #8

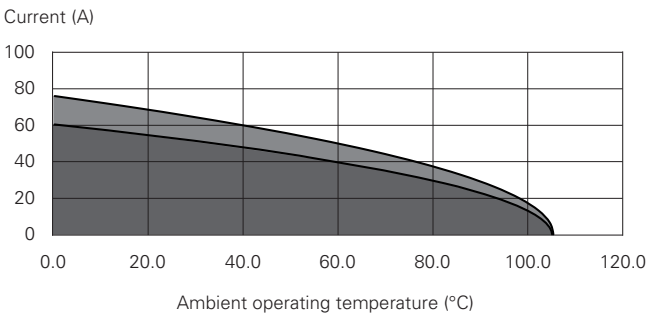
		Cable acceptance	Cable acceptance		Part number		Wire Ø max inch		Insulator Ø max	
Contact style	**Contact type**	**AWG**	**inch²**	**mm²**	**Male**	**Female**	**mm**		**inch**	**mm**
Crimp contacts	Machined	16	0.059″	1.48	**82913601A**(1)	**82913600A**(1)	0.067″	1.72	0.255″	6.5
Crimp contacts	Machined	14	0.098″	2.48	**82913603A**(1)	**82913602A**(1)	0.087″	2.20	0.255″	6.5
Crimp contacts	Machined	12	0.157″	4.00	**82913605A**(1)	**82913604A**(1)	0.111″	2.82	0.255″	6.5
Crimp contacts	Machined	10	0.236″	6.00	**82913607A**(1)	**82913606A**(1)	0.137″	3.48	0.255″	6.5
Crimp contacts	Machined	8	0.393″	10.00	**82913609A**(1)	**82913608A**(1)	0.171″	4.35	0.255″	6.5
PCB	Machined (2)	–			**82911685NPC**(1)	**82911684NPC**(1)	–	–	–	–

(1): Example of plating, for other plating see **Page 199**
(2): for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
UTSX 163G1 46A 600V	46A 600V	46A 400V 6KV 3

UTSX 163G1 derating curves



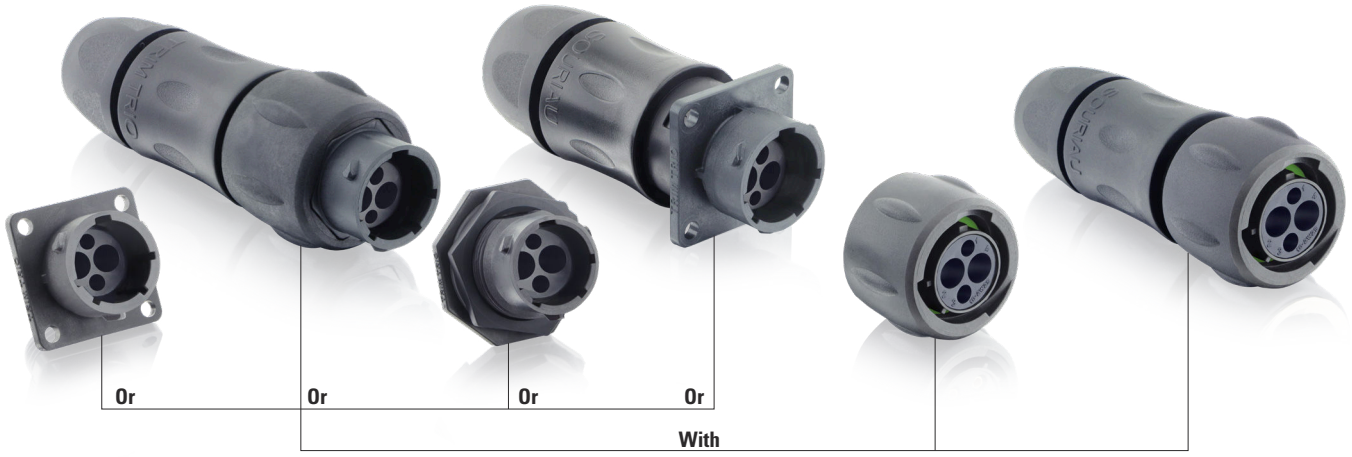
- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 8 AWG

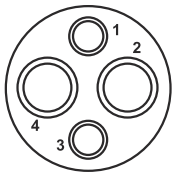
Derating curves based on continuous current application.

Dimensions in inches (millimeters)



Connector part number

UTSX 102W2



4 contacts
26A/600V per UL1977
with AWG12 wire

7.5A/250V per UL1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 49**	Square flange receptacle	Without (Fig. 1)	**UTSX0102W2P**	**UTSX0102W2S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC102W2P**	**UTSX0JC102W2S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC102W2P**	**UTSX1JC102W2S**
	Plug	Without (Fig. 4)	**UTSX6102W2P**	**UTSX6102W2S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC102W2P**	**UTSX6JC102W2S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7102W2P**	**UTSX7102W2S**

Souriau UTSX series

102W2 (Shell size 10, 2x#20, 2x12)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

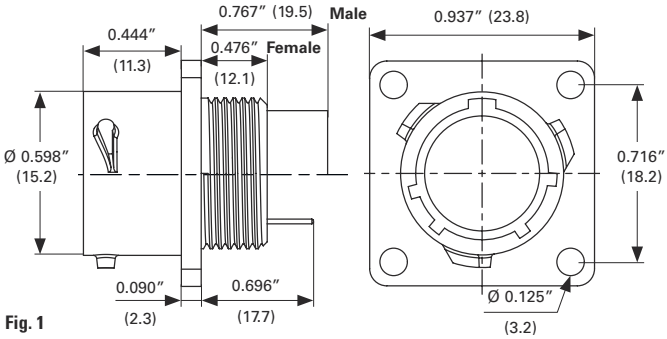


Fig. 1

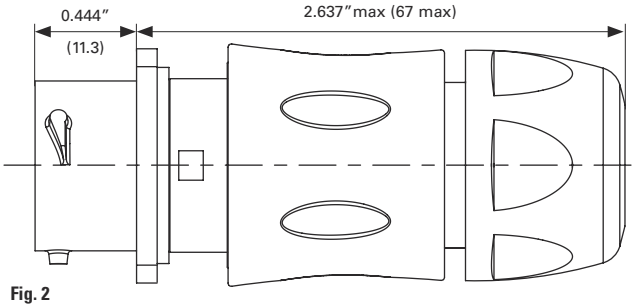


Fig. 2

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Free hanging - UTSX1JC

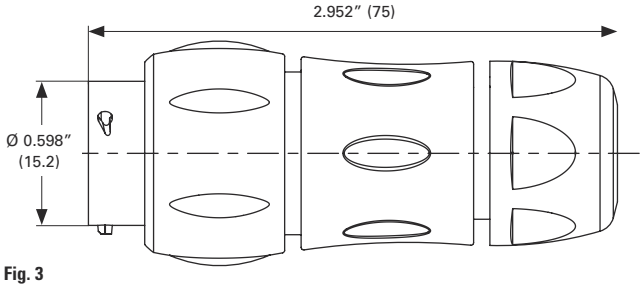


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Free hanging - UTSX1JC

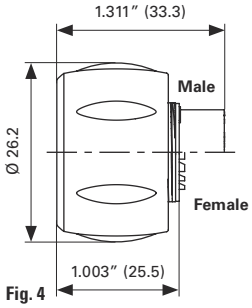


Fig. 4

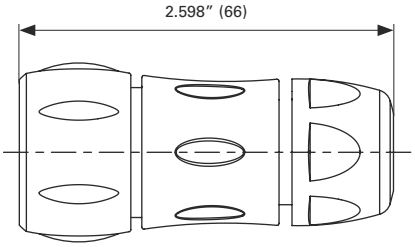


Fig. 5

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Jam nut receptacle UTSX7

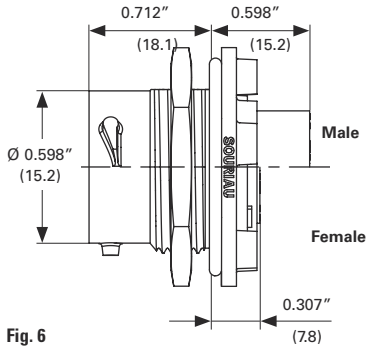
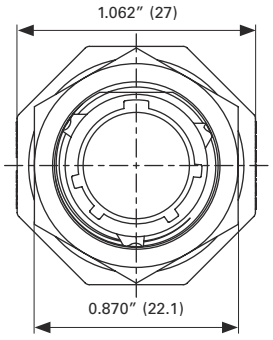
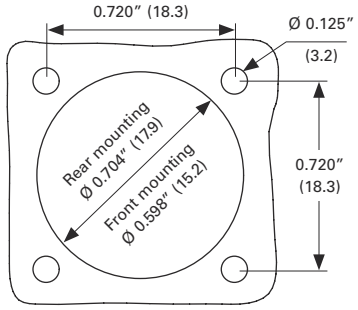


Fig. 6

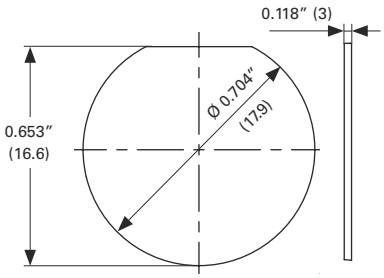


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS10DCG**
IP68 - Metal terminal	**UTS10DCGR**

Plug sealing cap



Description	Part number
IP68	**UTX610DCG**

Plastic protective cap



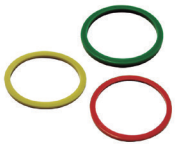
Part number receptacle cap	Part number plug cap
85005586A	**85005595**

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS710CCRG**	**UTS610CCRG**
Y for Yellow	**UTS710CCRY**	**UTS610CCRY**
R for Red	**UTS710CCRR**	**UTS610CCRR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS10DCGE**

Souriau UTSX series

102W2 (Shell size 10, 2x#20, 2x12)

Tooling

#20 machined and stamped contacts

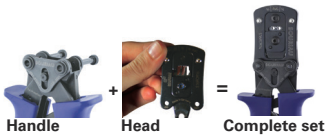




Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)





Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1)	RM/RC 24W3K(1)	S20RCM*
	RM/RC 20W3K(1)	S20RCM*
	RM/RC 18W3K(1)	S20RCM*
	SM/SC 24WL3(1)(2)	S20SCM20*
	SM/SC 20WL3(1)(2)	S20SCM20*

(1) Example of plating, for other plating options see **Page 199**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 210**

Extraction tool

Fig. 1



Fig. 2



Description	Part number
Fig. 1 - Contacts #20 Ø 0.039" (1)	RX20D44
Fig. 2 - Contacts #12 Ø 0.094" (2.4)	51060210924

Contacts #20

Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	**RM24W3K**	**RC24W3K**	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20W3K**	**RC20W3K**	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	**RM18W3K**	**RC18W3K**	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note (1) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24W3TK6(1)**	**SC24W3TK6(1)**	–	–	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	**SM24W3S26(1)**	**SC24W3S25(1)**	–	–	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3TK6(1)**	**SC20W3TK6(1)**	–	–	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3S26(1)**	**SC20W3S25(1)**	–	–	0.047"-0.082"	1.20-2.10

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

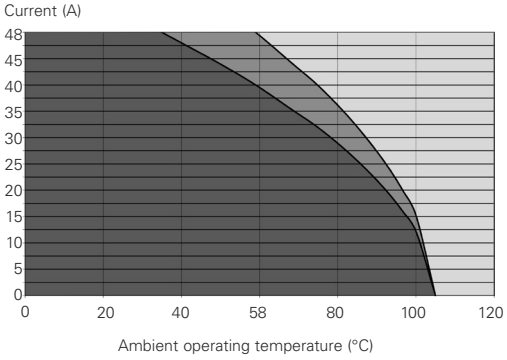
Contacts #12

Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	20	0.020"	0.52	**82911457NA**	**82911456A**	0.034"	0.87	0.192"	4.90
		20	0.020"	0.52	**82911459NA**	**82911458A**	0.044"	1.12	0.192"	4.90
		18	0.031"	0.80	**82911461NA**	**82911460A**	0.055"	1.42	0.192"	4.90
		16	0.059"	1.48	**82911463NA**	**82911462A**	0.067"	1.72	0.192"	4.90
		14	0.098"	2.48	**82911465NA**	**82911464A**	0.087"	2.20	0.192"	4.90
		12	0.157"	4.00	**82911467NA**	**82911466A**	0.111"	2.82	0.192"	4.90

Electrical characteristics

UL	CSA	IEC
26A 600V with AWG12 7.5A 250V with AWG20	20A 600V with AWG12 2.5A 250V with AWG20	25A 150V 2.5kV 3 temperature elevation: 50°C

UTSX 102W2 derating curves



Current use
Limited use
Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

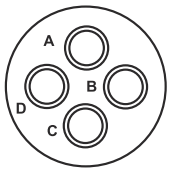
Souriau UTSX series

104 (Shell size 10, 4x#16)



Connector part number

UTSX 104



4 contacts
10A/500V per
UL 1977 with
AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 54**	Square flange receptacle	Without (Fig. 1)	**UTSX0104P**	**UTSX0104S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC104P**	**UTSX0JC104S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC104P**	**UTSX1JC104S**
	Free hanging receptacle	Cable gland and grommet(Fig. 3)	**UTSX1GJC104P**	–
	Plug	Without (Fig. 4)	**UTSX6104P**	**UTSX6104S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC104P**	**UTSX6JC104S**
	Plug	Cable gland and grommet(Fig. 5)	–	**UTSX6GJC104S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7104P**	**UTSX7104S**
	Jam nut receptacle	Cable gland and grommet (Fig. 8)	**UTSX7GJC104P**	–
PCB contacts supplied separately see **Page 54**	Jam nut receptacle	Without (Fig. 7)	**UTSX7104P**	**UTSX7104S**

For discrimination/keying methods see **Page 223**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

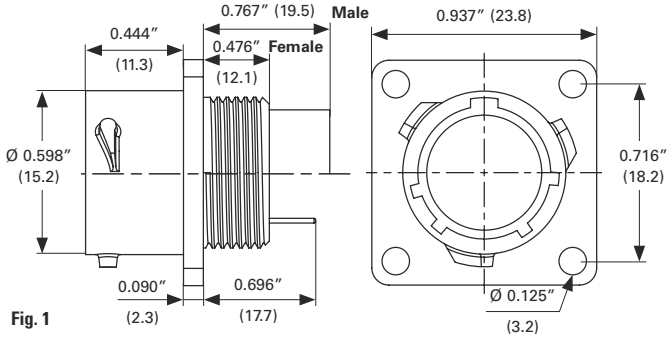


Fig. 1

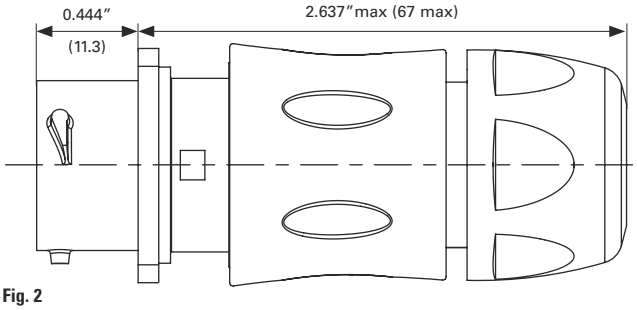


Fig. 2

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Free hanging - UTSX1JC and UTSX1GJC

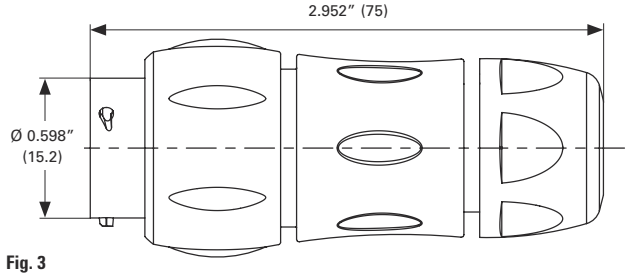


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Plug - UTSX6, UTSX6JC and UTSX6GJC

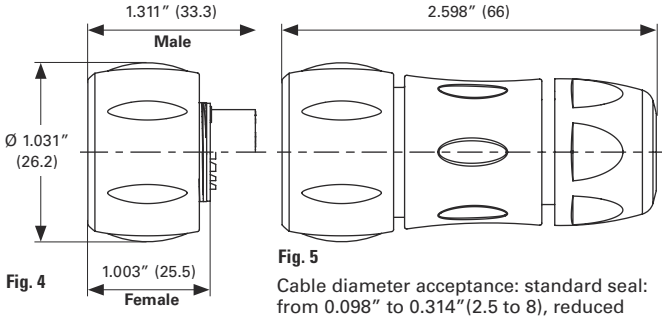


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Jam nut receptacle UTSX7 and UTSX7GJC

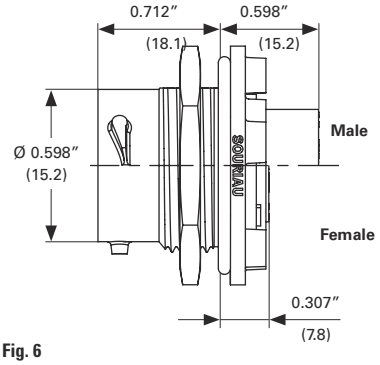


Fig. 6

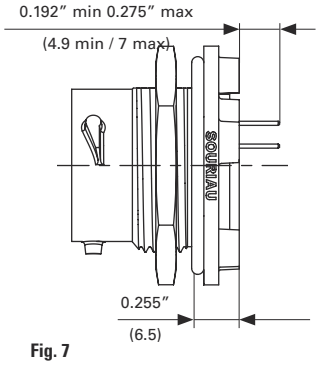
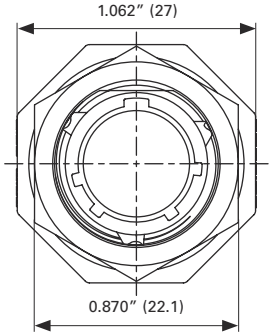
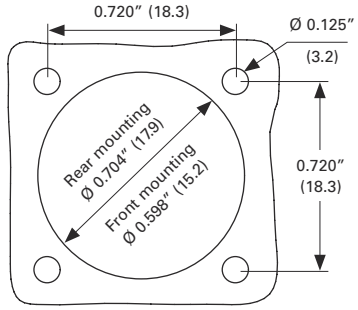


Fig. 7

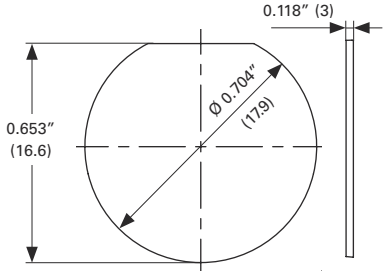


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS10DCG**
IP68 - Metal terminal	**UTS10DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS10DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX610DCG**

Plastic protective cap



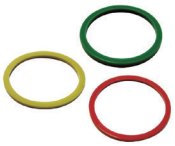
Part number receptacle cap	Part number plug cap
85005586A	**85005595**

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS710CCRG**	**UTS610CCRG**
Y for Yellow	**UTS710CCRY**	**UTS610CCRY**
R for Red	**UTS710CCRR**	**UTS610CCRR**

Tooling

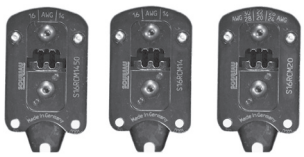
#16 machined or stamped contacts

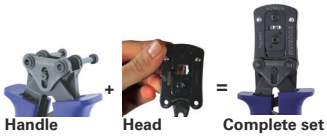




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle Head Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K(1)**	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 211**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Souriau UTSX series

104 (Shell size 10, 4x#16)

Contacts #16

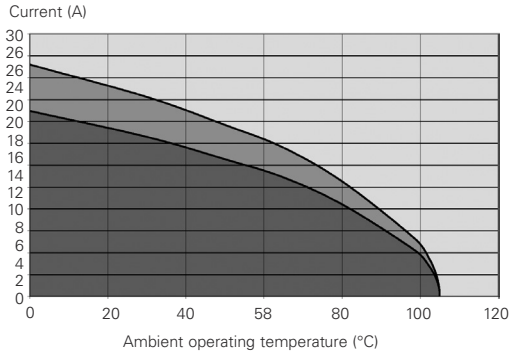
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002″-0.003″	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021″	0.55	0.039″	1.00
		26-24	0.005″-0.009″	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031″	0.80	0.062″	1.58
		22-20	0.012″-0.020″	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045″	1.15	0.070″	1.80
		22-20	0.012″-0.020″	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045″	1.15	0.086″	2.20
		20-16	0.020″-0.059″	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070″	1.80	0.125″	3.20
		16-14	0.059″-0.098″	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090″	2.30	0.125″	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005″-0.009″	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035″-0.062″	0.90-1.58
		22-20	0.012″-0.020″	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047″-0.082″	1.20-2.10
		18-16	0.031″-0.059″	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125″	3.20
		18-16	0.031″-0.059″	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118″	3.00
		14	0.098″	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125″	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 202**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 202**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 202**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 202**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) for dimensions see **Page 205**

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	7A 500V with AWG16 wire	13A 150V 2.5kV 3

UTSX 104 derating curves

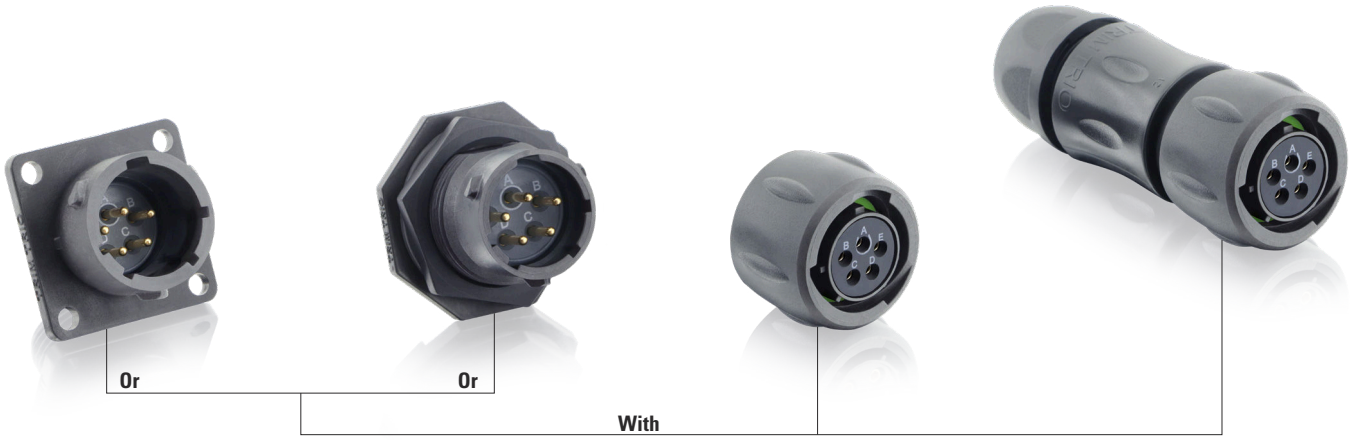


Current use
Limited use
Not recommended use

Test conditions

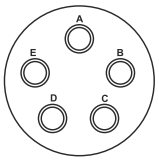
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 14E5/14D5



5 contacts 12A/600V per UL 1977 with AWG16 wire

5 contacts 5A/250V per UL 1977 with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 58**	Square flange receptacle	Without (Fig. 1)	**UTSX014E5P**	**UTSX014E5S**
	Plug	Without (Fig. 2)	**UTSX614E5P**	**UTSX614E5S**
	Plug	Cable gland (Fig. 3)	**UTSX6JC14E5P**	**UTSX6JC14E5S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX714E5P**	**UTSX714E5S**
PCB contacts loaded see **Page 58**	Square flange receptacle	Without (Fig. 2)	**UTSX014D5P**	**UTSX014D5S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX714D5P**	**UTSX714D5S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX714D5P32**	**UTSX714D5S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

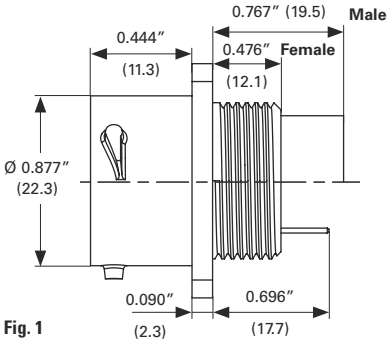
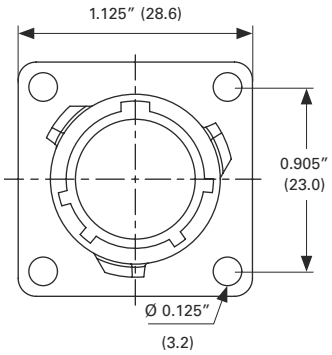


Fig. 1



Plug - UTSX6 and UTSX6JC

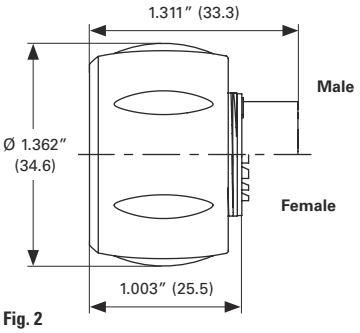


Fig. 2

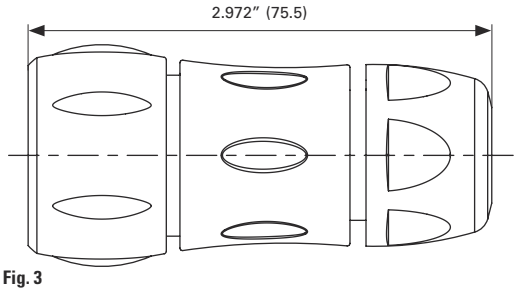


Fig. 3

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Jam nut receptacle UTSX7

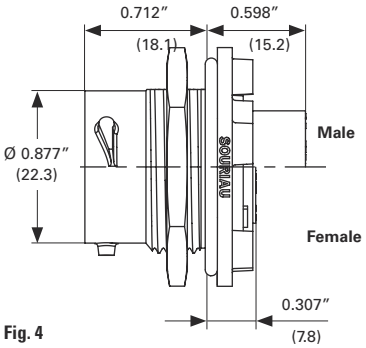


Fig. 4

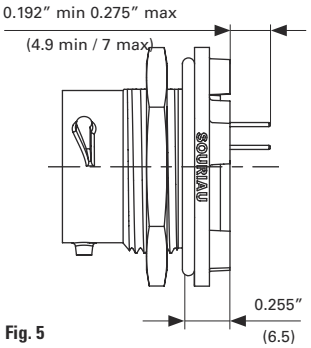


Fig. 5

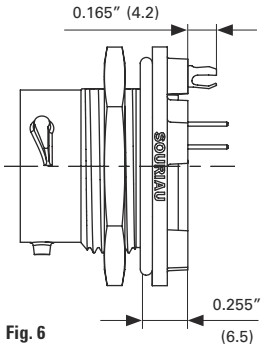
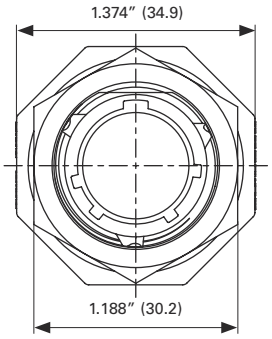
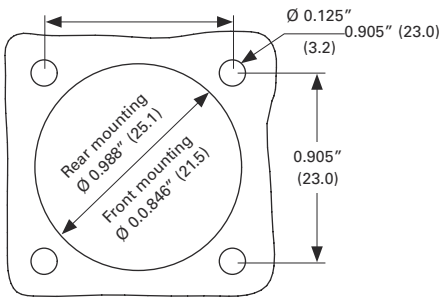


Fig. 6

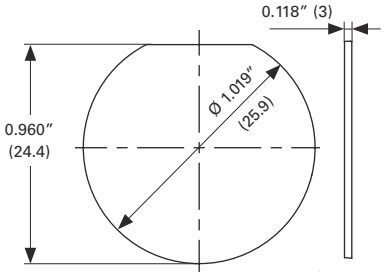


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS14DCG**
IP68 - Metal terminal	**UTS14DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS14DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX614DCG**

Plastic protective cap



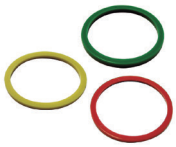
Part number receptacle cap	Part number plug cap
85005588A	**85005597**

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS714CCRG**	**UTS614CCRG**
Y for Yellow	**UTS714CCRY**	**UTS614CCRY**
R for Red	**UTS714CCRR**	**UTS614CCRR**

Souriau UTSX series

14E5/14D5 (Shell size 14, 5x#16)

Contacts

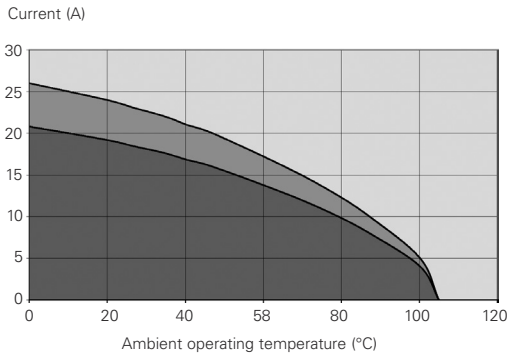
			Cable acceptance	Cable acceptance		Wire stripping length	
Contact size	**Contact type**	**Plating**	**AWG**	**inch²**	**mm²**	**inch**	**mm**
#16	Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	18 - 14	0.031"-0.098"	0.80 - 2.48	0.196"	5
	PCB Machined (1)	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–

(1) For dimensions see **Pages 206**

Electrical characteristics

UL	CSA	IEC
12A 600V with AWG16 wire	12A 600V with AWG16 wire	16A 150V 2.5kV 3
5A 250V with AWG20 wire	5A 250V with AWG20 wire	

UTSX 14E5/14D5 derating curves

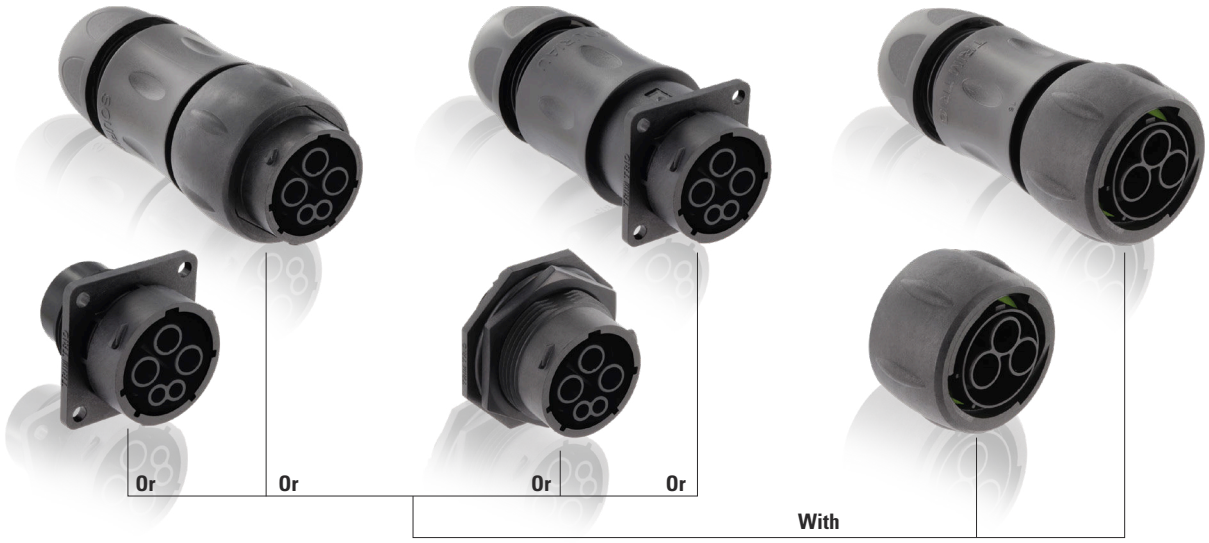


- Current use
- Limited use
- Not recommended use

Test conditions

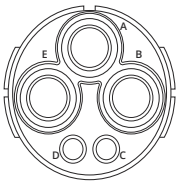
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 165



5 contacts
46A/600V per UL 1977
with AWG8 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 63**	Square flange receptacle	Without (Fig. 1)	**UTSX0165P**	**UTSX0165S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC165P**	**UTSX0JC165S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC165P**	**UTSX1JC165S**
	Plug	Without (Fig. 4)	**UTSX6165P**	**UTSX6165S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC165P**	**UTSX6JC165S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7165P**	**UTSX7165S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX7165P32**	**UTSX7165S32**
PCB contacts supplied separately see **Page 63**	Square flange receptacle	Without (Fig. 1)	**UTSX0165P**	**UTSX0165S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX7165P**	**UTSX7165S**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

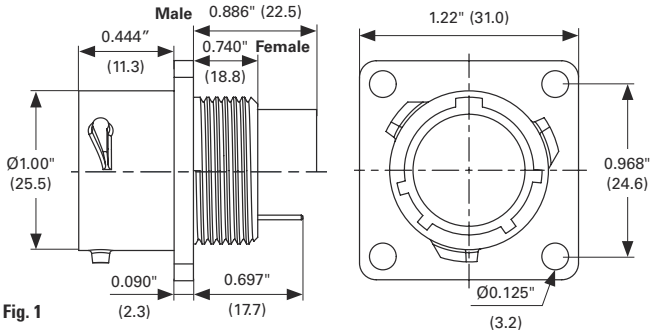


Fig. 1

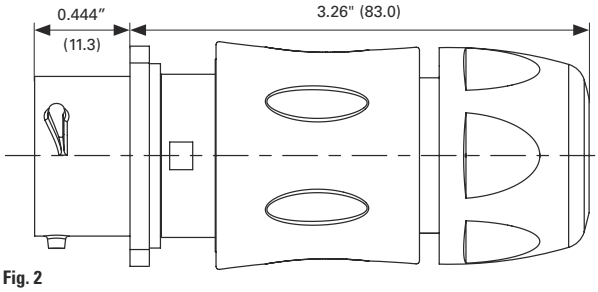


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

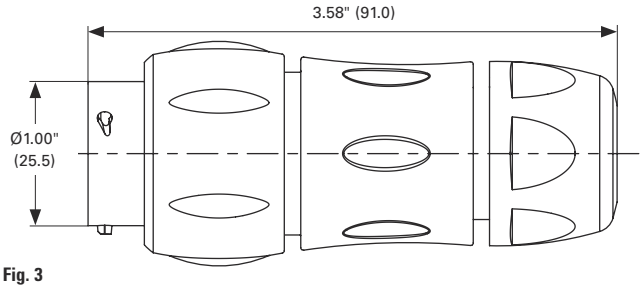


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

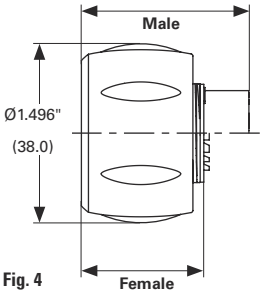


Fig. 4

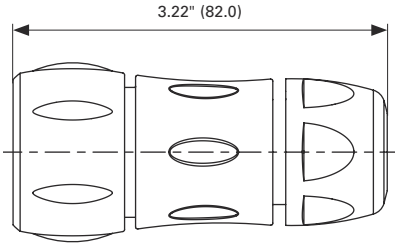


Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

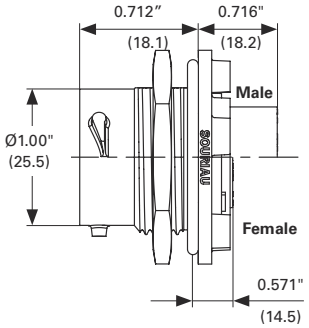


Fig. 6

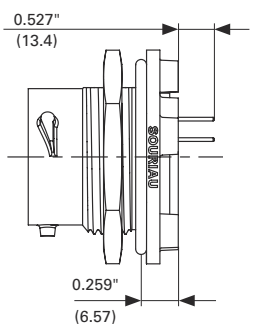


Fig. 7

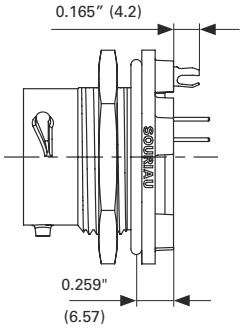
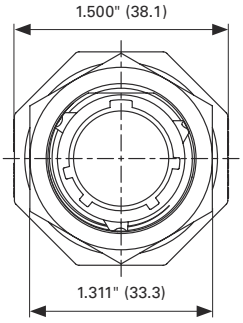
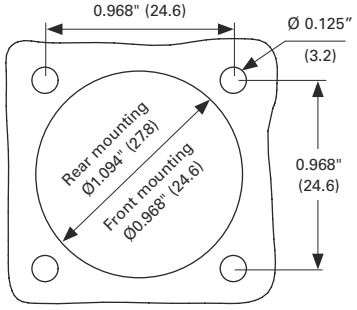


Fig. 8

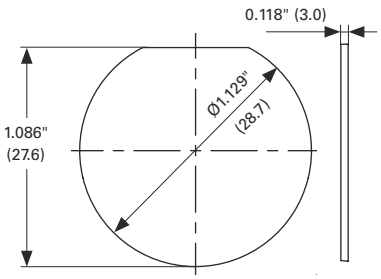


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS16DCG**
IP68 - Metal terminal	**UTS16DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS16DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX616DCG**

Plastic protective cap



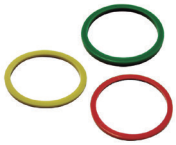
Part number receptacle cap	Part number plug cap
85005589A	**85005598**

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS716CCRG**	**UTS616CCRG**
Y for Yellow	**UTS716CCRY**	**UTS616CCRY**
R for Red	**UTS716CCRR**	**UTS616CCRR**

Souriau UTSX series

165 (Shell size 16, 2 x #16, 3x#8)

Tooling

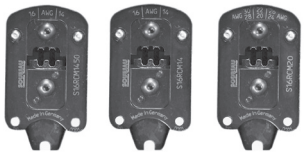
Tooling





Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)



Handle + Head = Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K(1)**	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 211**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

#8 Machine contacts



Contact size	Part number
Shandle only	**M317**

Positioner + Locator setting #8



Contact size	Part number
For Crimp Contacts #8 Ø 0.141" (3.6)	**VGE10078A**

Extraction tool #8



Description	Part number
For Crimp Contacts #8 Ø 0.141" (3.6)	51060210936

Contacts #16

Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connecter	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) For dimensions see **Page 206**

Contacts #8

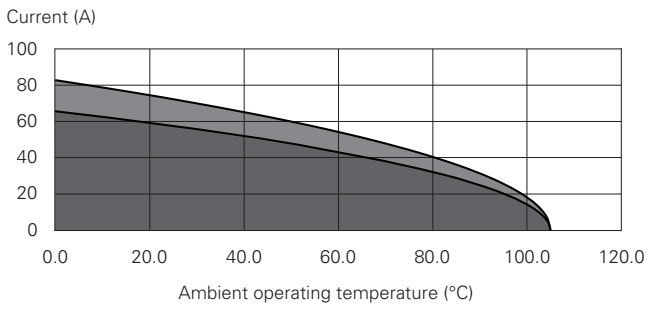
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch mm		Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	16	0.059"	1.48	**82913601A**(1)	**82913600A**(1)	0.067"	1.72	0.255"	6.5
Crimp contacts	Machined	14	0.098"	2.48	**82913603A**(1)	**82913602A**(1)	0.087"	2.20	0.255"	6.5
Crimp contacts	Machined	12	0.157"	4.00	**82913605A**(1)	**82913604A**(1)	0.111"	2.82	0.255"	6.5
Crimp contacts	Machined	10	0.236"	6.00	**82913607A**(1)	**82913606A**(1)	0.137"	3.48	0.255"	6.5
Crimp contacts	Machined	8	0.393"	10.00	**82913609A**(1)	**82913608A**(1)	0.171"	4.35	0.255"	6.5
PCB	Machined (2)	–			**82911685NPC**(1)	**82911684NPC**(1)	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
UTSX 165 46A 600V with AWG8 wire	40A 600V with AWG8 wire	46A 320V 4kV 3

UTSX 165 derating curves



Current use
Limited use
Not recommended use

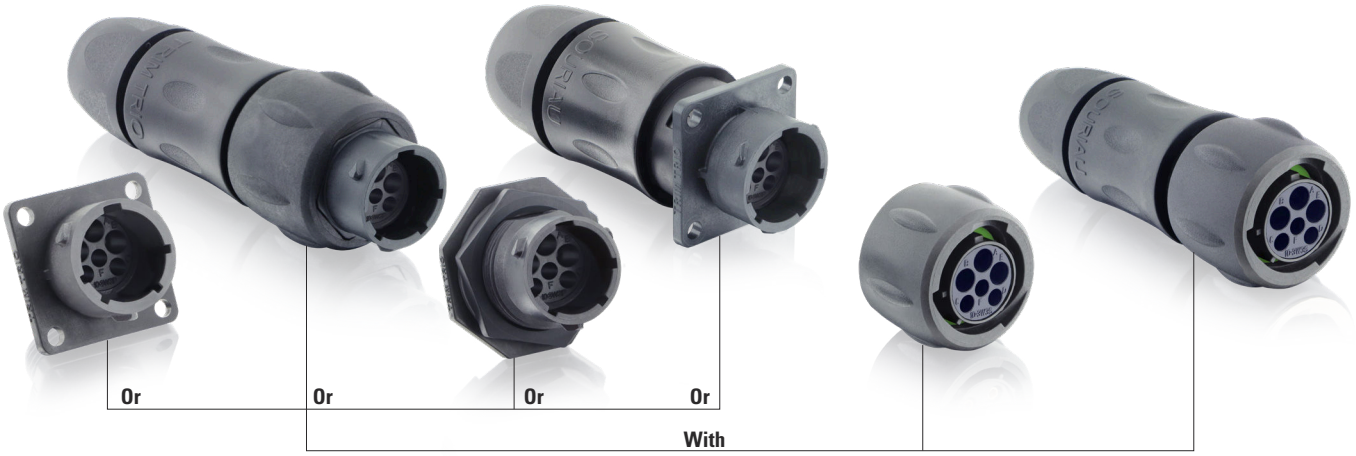
Test conditions

Contact used: machined contacts
Wires used: 8 AWG

Derating curves based on continuous current application.

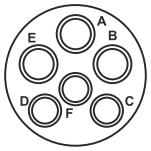
Souriau UTSX series

103W3 (Shell size 10, 3x#20, 3x16)



Connector part number

UTSX 103W3



6 contacts
13A/500V per UL1977
with AWG16 wire

6 contacts
7.5A/250V per UL1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 69**	Square flange receptacle	Without (Fig. 1)	**UTSX0103W3P**	**UTSX0103W3S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC103P**	**UTSX0JC103S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC103W3P**	**UTSX1JC103W3S**
	Plug	Without (Fig. 4)	**UTSX6103W3P**	**UTSX6103W3S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC103W3P**	**UTSX6JC103W3S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7103W3P**	**UTSX7103W3S**
PCB contacts supplied separately see **Page 69**	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	**UTSX7103W3P**	**UTSX7103W3S**

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

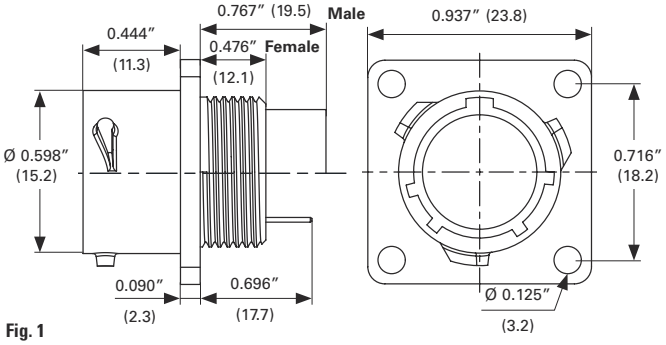


Fig. 1

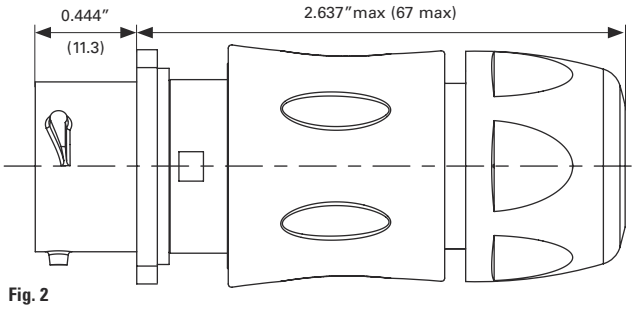


Fig. 2

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Free hanging - UTSX1JC

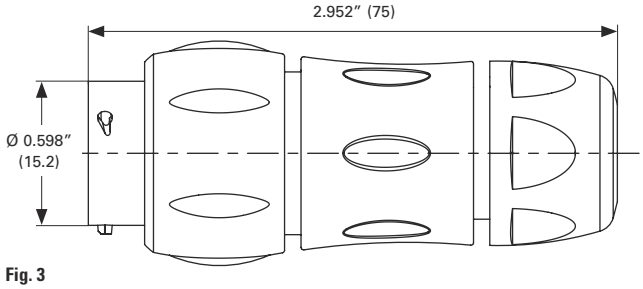


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Plug - UTSX6 and UTSX6JC

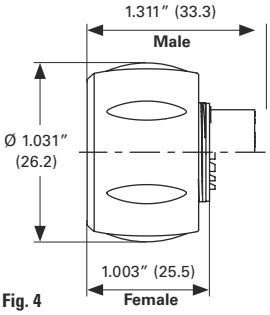


Fig. 4

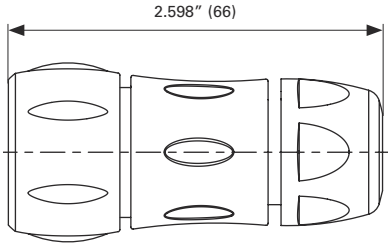


Fig. 5

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Jam nut receptacle UTSX7

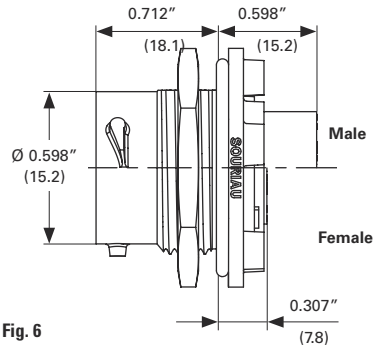


Fig. 6

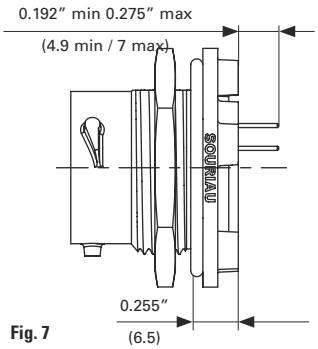
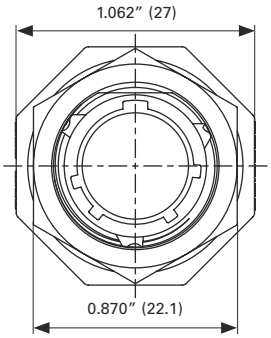
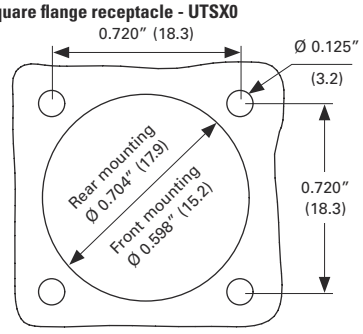


Fig. 7

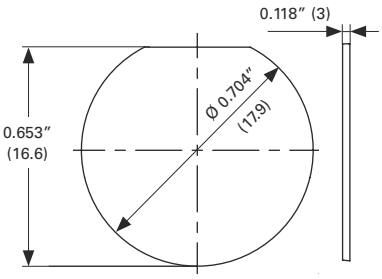


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

103W3 (Shell size 10, 3x#20, 3x16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS10DCG**
IP68 - Metal terminal	**UTS10DCGR**

Plug sealing cap



Description	Part number
IP68	**UTX610DCG**

Plastic protective cap



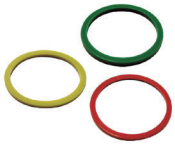
Part number receptacle cap	Part number plug cap
85005586A	**85005595**

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS710CCRG**	**UTS610CCRG**
Y for Yellow	**UTS710CCRY**	**UTS610CCRY**
R for Red	**UTS710CCRR**	**UTS610CCRR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS10DCGE**

Tooling

Tooling

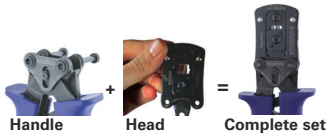




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Contact size	Contacts	Part number of head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K**(1)	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***
Standard contacts #20 Ø 0.039" (1.0)	**RM/RC 24W3K**(1)	**S20RCM***
	RM/RC 20W3K(1)	**S20RCM***
	RM/RC 18W3K(1)	**S20RCM***
	SM/SC 24WL3(1)(2)	**S20SCM20***
	SM/SC 20WL3(1)(2)	**S20SCM20***

(1) Example of plating, for other plating options see **Page 199**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 211**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

103W3 (Shell size 10, 3x#20, 3x16)

Contacts #16

Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) for dimensions see **Page 206**

Contacts #20

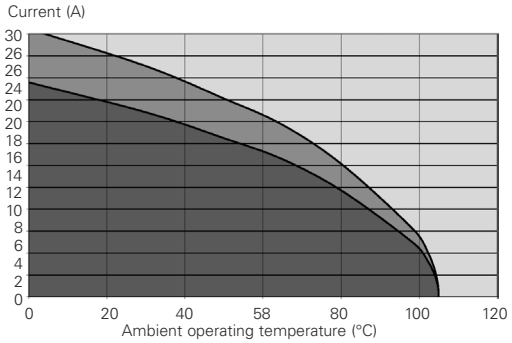
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	**RM24W3K**	**RC24W3K**	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20W3K**	**RC20W3K**	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	**RM18W3K**	**RC18W3K**	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note (1) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24W3TK6**(1)	**SC24W3TK6**(1)	–	–	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	**SM24W3S26**(1)	**SC24W3S25**(1)	–	–	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3TK6**(1)	**SC20W3TK6**(1)	–	–	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3S26**(1)	**SC20W3S25**(1)	–	–	0.047"-0.082"	1.20-2.10

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

Electrical characteristics

UL	CSA	IEC
13A 500V with AWG 16	7A 500V with AWG 16	5A 32V 1.5kV 3
7.5A 250V with AWG20	2.5A 250V with AWwG20	

UTSX 103W3 derating curves



Derating curves based on continuous current application.

- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 16 AWG

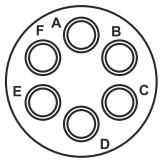
Souriau UTSX series

106 - 10E6/10D6 (Shell size 10, 6x#20)



Connector part number

UTSX



106

6 contacts 5A/250V per UL 1977 with AWG20 wire

10E6/10D6

6 contacts 6A/250V per UL 1977 with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 74**	Square flange receptacle	Without (Fig. 1)	**UTSX0106P**	**UTSX0106S**
		Cable gland (Fig. 2)	**UTSX0JC106P**	**UTSX0JC106S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC106P**	**UTSX1JC106S**
	Plug	Without (Fig. 4)	**UTSX6106P**	**UTSX6106S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC106P**	**UTSX6JC106S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7106P**	**UTSX7106S**
PCB contacts supplied separately see **Page 74**	Jam nut receptacle	Without (Fig. 7)	**UTSX7106P**	**UTSX7106S**
Handsolder electrical contacts loaded	Square flange receptacle	Without (Fig. 1)	**UTSX010E6P**	**UTSX010E6S**
	Plug	Without (Fig. 4)	**UTSX610E6P**	**UTSX610E6S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC10E6P**	**UTSX6JC10E6S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX710E6P**	**UTSX710E6S**
PCB contacts supplied separately see **Page 74**	Jam nut receptacle	Without (Fig.7)	**UTSX710E6P**	**UTSX710E6S**
PCB contacts loaded see **Page 74**	Square flange receptacle	Without (Fig.1)	**UTSX010D6P**	**UTSX010D6S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.8)	**UTSX710D6P**	**UTSX710D6S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.8)	**UTSX710D6P32**	**UTSX710D6S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

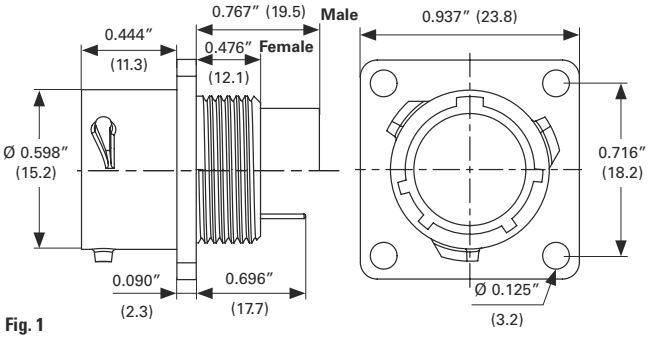


Fig. 1

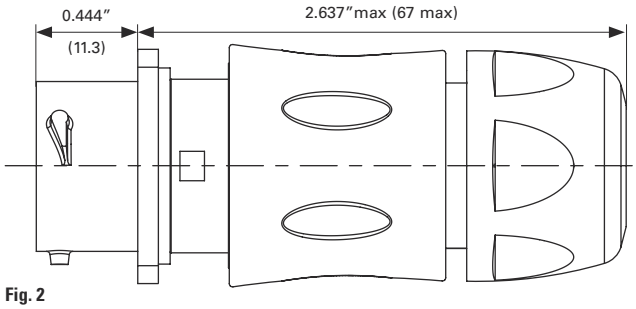


Fig. 2

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Free hanging - UTSX1JC

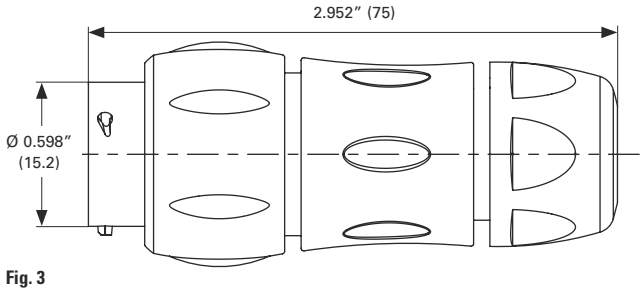


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″ (2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Plug - UTSX6 and UTSX6JC

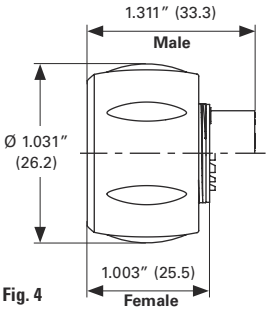


Fig. 4

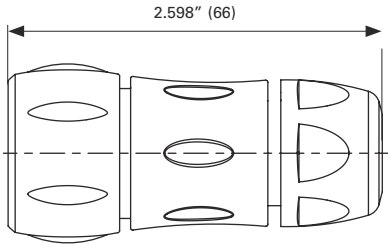


Fig. 5

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″(2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Jam nut receptacle UTSX7

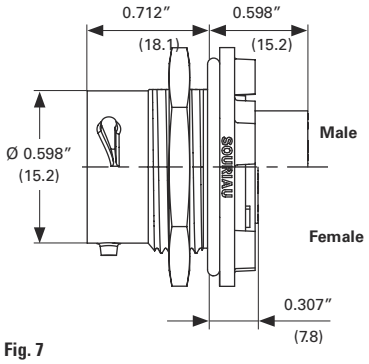


Fig. 7

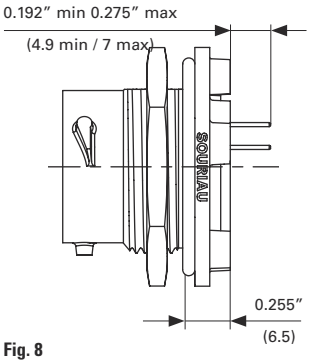


Fig. 8

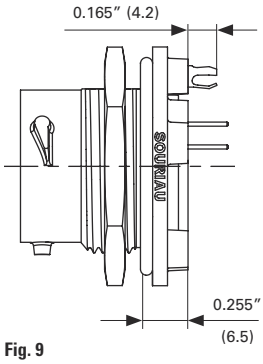
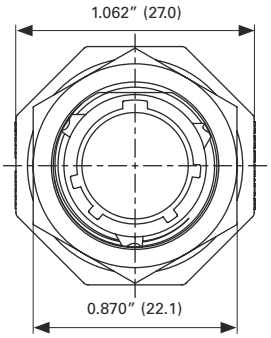
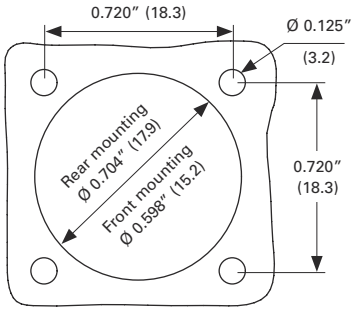


Fig. 9

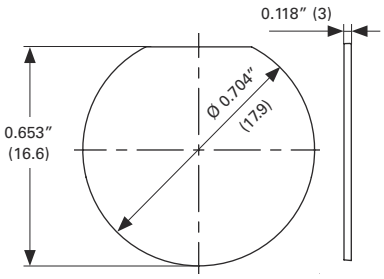


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

106 - 10E6/10D6 (Shell size 10, 6x#20)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS10DCG**
IP68 - Metal terminal	**UTS10DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS10DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX610DCG**

Plastic protective cap



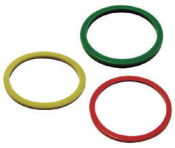
Part number receptacle cap	Part number plug cap
85005586A	**85005595**

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS710CCRG**	**UTS610CCRG**
Y for Yellow	**UTS710CCRY**	**UTS610CCRY**
R for Red	**UTS710CCRR**	**UTS610CCRR**

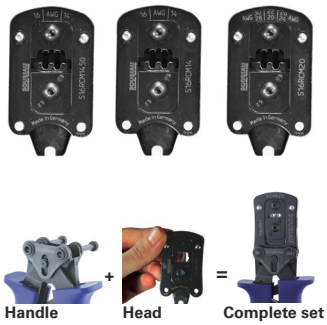
Tooling

Tooling



Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling
(without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1.0)	**RM/RC 24W3K(1)**	**S20RCM***
	RM/RC 20W3K(1)	**S20RCM***
	RM/RC 18W3K(1)	**S20RCM***
	SM/SC 24WL3(1)(2)	**S20SCM20***
	SM/SC 20WL3(1)(2)	**S20SCM20***

(1) Example of plating, for other plating options see **Page 199**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

Extraction tool #20



Description	Part number
Contacts #20 Ø 0.039" (1.0)	**RX20D44**

Souriau UTSX series

106 - 10E6/10D6 (Shell size 10, 6x#20)

Contacts #20

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	**Contact type**	**AWG**	**inch²**	**mm²**	**Male**	**Female**	**inch**	**mm**	**inch**	**mm**
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	**RM24W3K**	**RC24W3K**	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20W3K**	**RC20W3K**	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	**RM18W3K**	**RC18W3K**	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note [1] for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24W3TK6**[2]	**SC24W3TK6**[1]	–	–	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	**SM24W3S26**[2]	**SC24W3S25**[1]	–	–	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3TK6**[2]	**SC20W3TK6**[1]	–	–	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3S26**[2]	**SC20W3S25**[1]	–	–	0.047"-0.082"	1.20-2.10

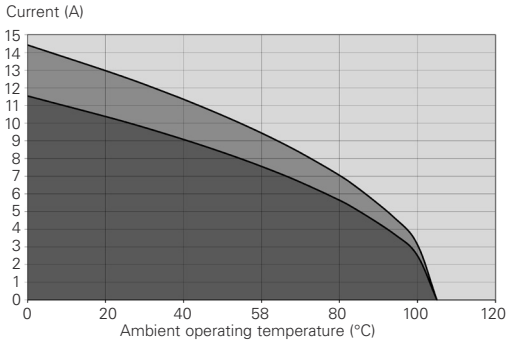
(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

				Wire stripping length	
Contact style	**Contact type**	**Plating**	**Cable acceptance (AWG)**	**inch**	**mm**
Handsolder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	**CSA**	**IEC**
UTSX 106 5A 250V with AWG20 wire	4A 250V with AWG20 wire	7A 32V 1.5kV 3
UTSX 10E6/10D6 6A 250V with AWG20 wire	6A 250V with AWG20 wire	7A 32V 1.5kV 3

UTSX 106 - 10E6/10D6 derating curves



Current use
Limited use
Not recommended use

Test conditions

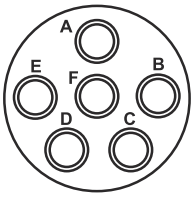
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 10E98/10D98



6 contacs 6A/250V
per UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 78**	Square flange receptacle	Without (Fig. 1)	**UTSX010E98P**	**UTSX010E98S**
	Plug	Without (Fig. 5)	**UTSX610E98P**	**UTSX610E98S**
	Plug	Cable gland (Fig. 3)	**UTSX6JC10E98P**	**UTSX6JC10E98S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX710E98P**	**UTSX710E98S**
PCB contacts loaded see **Page 78**	Square flange receptacle	Without (Fig. 2)	**UTSX010D98P**	**UTSX010D98S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX710D98P**	**UTSX710D98S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX710D98P32**	**UTSX710D98S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

10E98/10D98 (Shell size 10, 6x#20)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

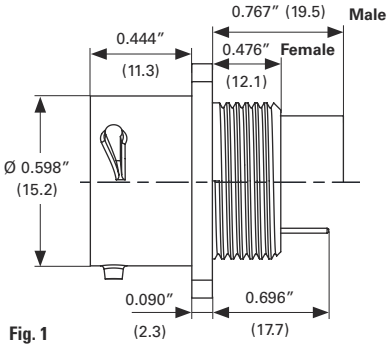
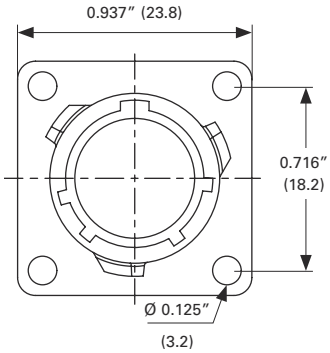


Fig. 1



Plug - UTSX6 and UTSX6JC

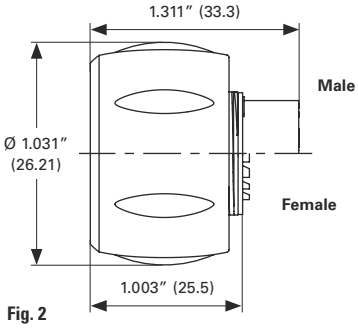


Fig. 2

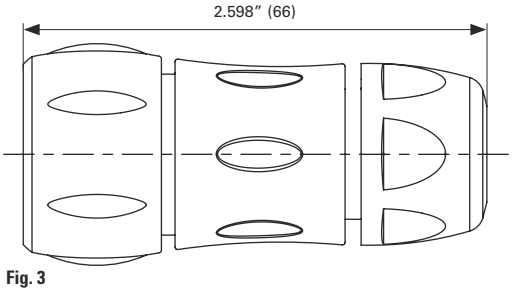


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″ (2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Jam nut receptacle UTSX7

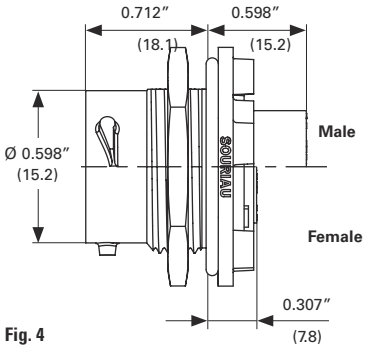


Fig. 4

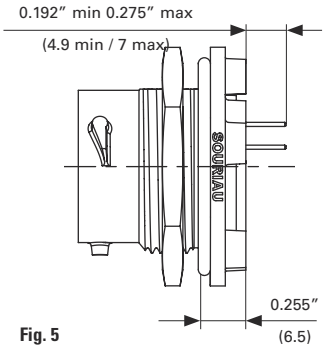


Fig. 5

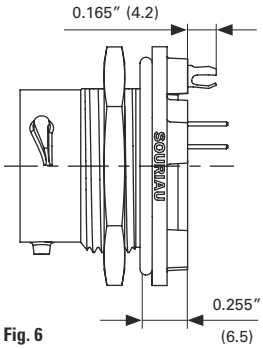
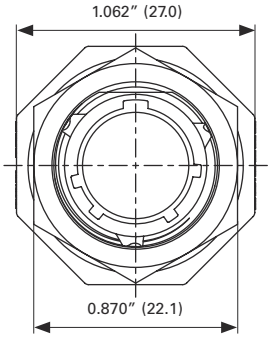
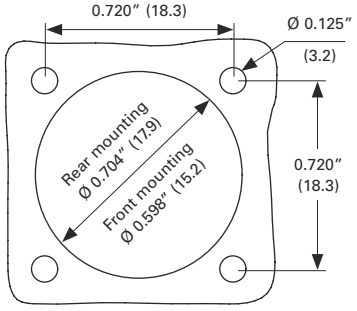


Fig. 6

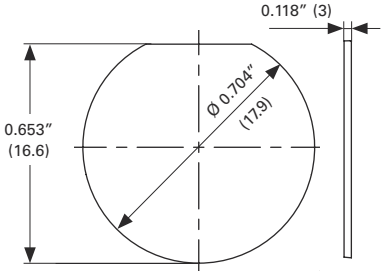


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS10DCG**
IP68 - Metal terminal	**UTS10DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS10DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX610DCG**

Plastic protective cap



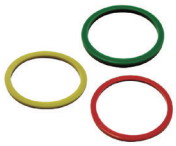
Part number receptacle cap	Part number plug cap
85005586A	**85005595**

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS710CCRG**	**UTS610CCRG**
Y for Yellow	**UTS710CCRY**	**UTS610CCRY**
R for Red	**UTS710CCRR**	**UTS610CCRR**

Souriau UTSX series

10E98/10D98 (Shell size 10, 6x#20)

Contacts #20

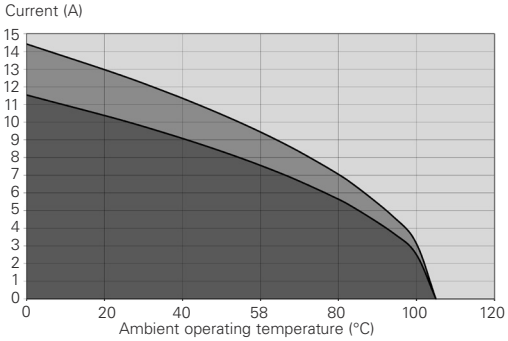
Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length	
				inch	mm
Handsolder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	CSA	IEC
6A 250V with AWG20 wire	6A 250V with AWG20 wire	7A 32V 1.5kV 3

Electrical information according to the IEC 61984, with pollution degree IV and overvoltage category III.

UTSX 10E98/10D98 derating curves

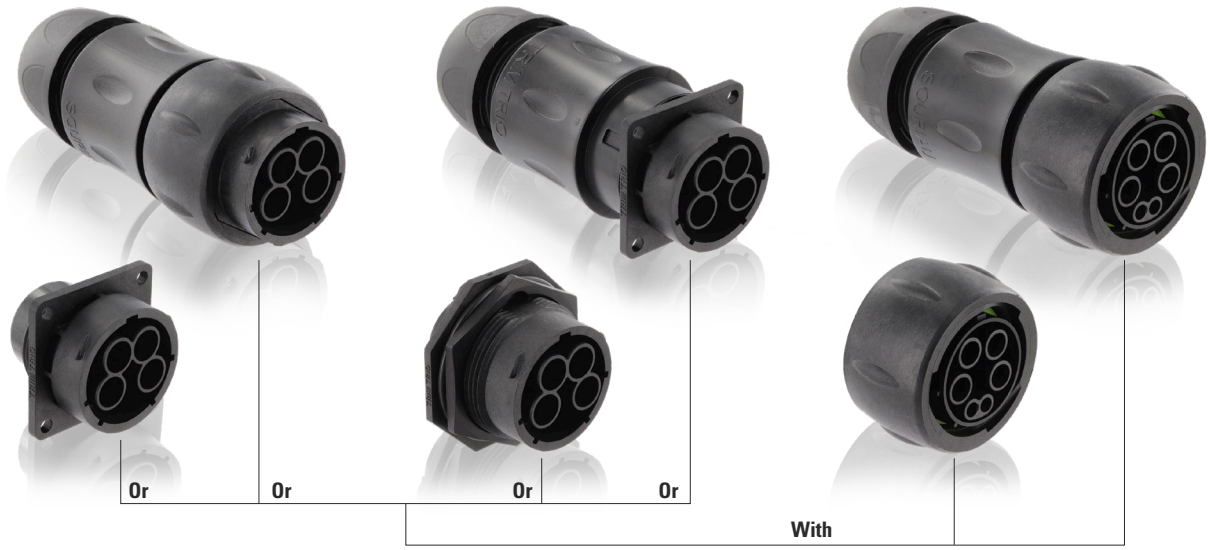


- Current use
- Limited use
- Not recommended use

Test conditions

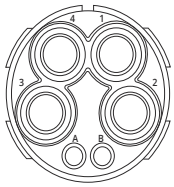
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 186



6 contacts
46A/600V per UL 1977
with AWG8 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 83**	Square flange receptacle	Without (Fig. 1)	**UTSX0186P**	**UTSX0186S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC186P**	**UTSX0JC186S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC186P**	**UTSX1JC186S**
	Plug	Without (Fig. 4)	**UTSX6186P**	**UTSX6186S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC186P**	**UTSX6JC186S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7186P**	**UTSX7186S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX7186P32**	**UTSX7186S32**
PCB contacts supplied separately see **Page 83**	Square flange receptacle	Without (Fig. 1)	**UTSX0186P**	**UTSX0186S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX7186P**	**UTSX7186S**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

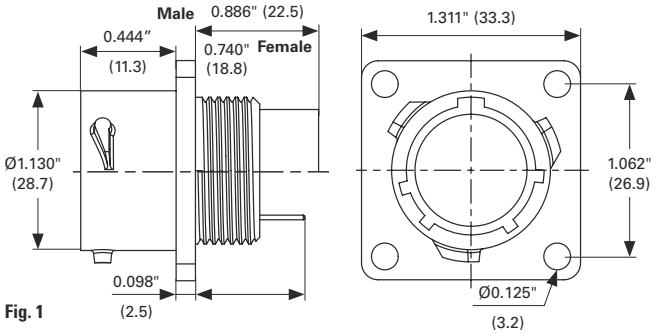


Fig. 1

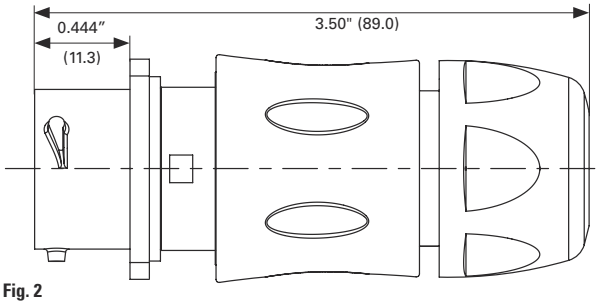


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Free hanging - UTSX1JC and UTSXGJC

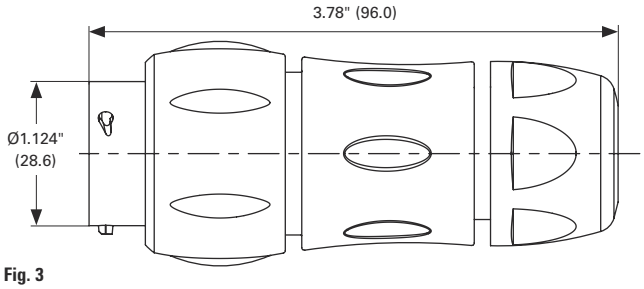


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Plug - UTSX6 and UTSX6JC

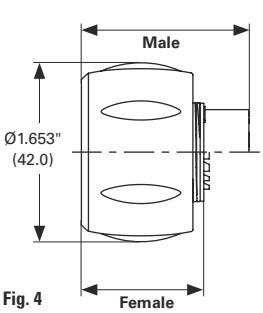


Fig. 4

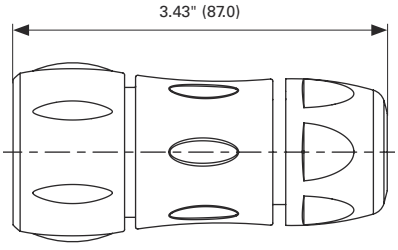


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Jam nut receptacle UTSX7

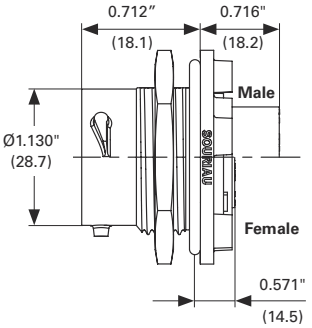


Fig. 6

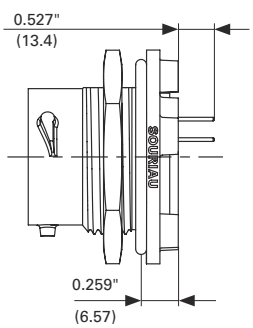


Fig. 7

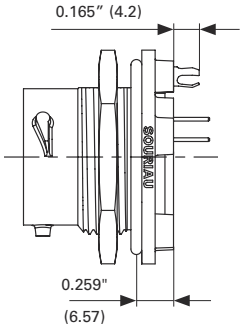
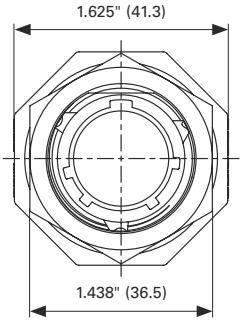
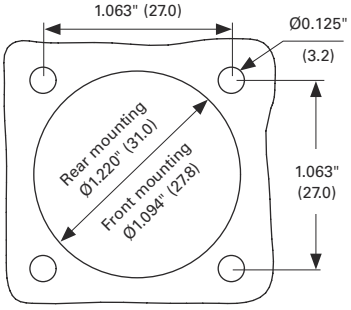


Fig. 8

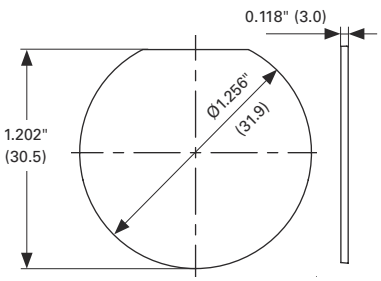


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS18DCG**
IP68 - Metal terminal	**UTS18DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS18DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX618DCG**

Plastic protective cap



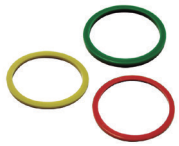
Part number receptacle cap	Part number plug cap
85005590A	**85005599**

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS718CCRG**	**UTS618CCRG**
Y for Yellow	**UTS718CCRY**	**UTS618CCRY**
R for Red	**UTS718CCRR**	**UTS618CCRR**

Souriau UTSX series

186 (Shell size 18, 4x#8, 2x#16)

Tooling

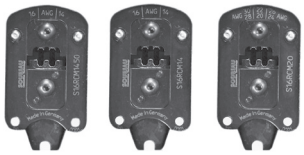
Tooling

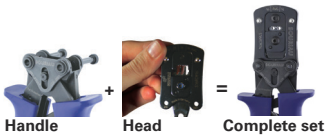




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle + Head = Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K**(1)	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 211**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

#8 Machine contacts



Contact size	Part number
Shandle only	**M317**

Positioner + Locator setting #8



Contact size	Part number
For crimp contacts #8 Ø 0.141" (3.6)	**VGE10078A**

Extraction tool #8



Description	Part number
For crimp contacts #8 Ø 0.141" (3.6)	51060210936

Contacts #8

Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch mm	Wire Ø max inch	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	16	0.059"	1.48	**82913601A**(1)	**82913600A**(1)	0.067"	1.72	0.255"	6.5
Crimp contacts	Machined	14	0.098"	2.48	**82913603A**(1)	**82913602A**(1)	0.087"	2.20	0.255"	6.5
Crimp contacts	Machined	12	0.157"	4.00	**82913605A**(1)	**82913604A**(1)	0.111"	2.82	0.255"	6.5
Crimp contacts	Machined	10	0.236"	6.00	**82913607A**(1)	**82913606A**(1)	0.137"	3.48	0.255"	6.5
Crimp contacts	Machined	8	0.393"	10.00	**82913609A**(1)	**82913608A**(1)	0.171"	4.35	0.255"	6.5
PCB	Machined (2)	–			**82911685NPC**(1)	**82911684NPC**(1)	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) For dimensions see **Page 206**

Contacts #16

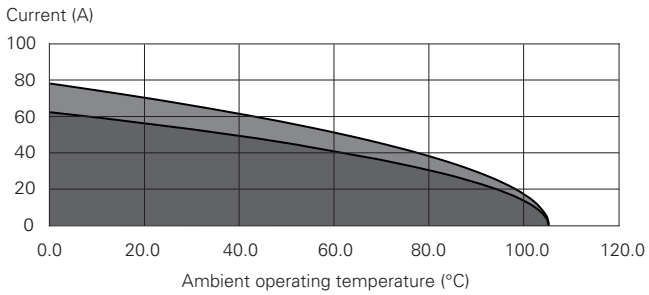
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connecter	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
46A 600V with AWG8	40A 600V with AWG8	46A 320V 4kV 3

UTSX 186 derating curves



Derating curves based on continuous current application.

- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 8 AWG

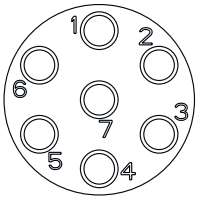
Souriau UTSX series

147 - 14E7/14D7 (Shell size 14, 6 + ground, 7x#16)



Connector part number

UTSX



147

6 contacts + ground
10A/500V per UL 1977
with AWG16 wire

14E7/14D7

6 contacts + ground
10A/600V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 87**	Square flange receptacle	Without (Fig. 1)	**UTSX0147P**	**UTSX0147S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC147P**	**UTSX0JC147S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC147P**	**UTSX1JC147S**
	Free hanging receptacle	Cable gland and grommet (Fig. 3)	**UTSX1GJC147P**	–
	Plug	Without (Fig. 4)	**UTSX6147P**	**UTSX6147S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC147P**	**UTSX6JC147S**
	Plug	Cable gland and grommet (Fig. 5)	–	**UTSX6GJC147S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7147P**	**UTSX7147S**
	Jam nut receptacle	Cable gland and grommet (Fig. 10)	**UTSX7GJC147P**	–
Screw contacts loaded	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC147PSCR**	–
	Plug	Cable gland (Fig. 5)	**UTSX6JC147PSCR**	**UTSX6JC147SSCR**
	Jam nut receptacle	Without (Fig. 9)	**UTSX7147PSCR**	**UTSX7147SSCR**
PCB contacts loaded see **Page 87**	Jam nut receptacle	Without (Fig. 1)	**UTSX7147PSEK9**	–
Handsolder electrical contacts loaded see **Page 87**	Square flange receptacle	Without (Fig. 1)	**UTSX014E7P**	**UTSX014E7S**
	Plug	Without (Fig. 4)	**UTSX614E7P**	**UTSX614E7S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC14E7P**	**UTSX6JC14E7S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX714E7P**	**UTSX714E7S**
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	**UTSX014D7P**	**UTSX014D7S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX714D7P**	**UTSX714D7S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX714D7P32**	**UTSX714D7S32**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

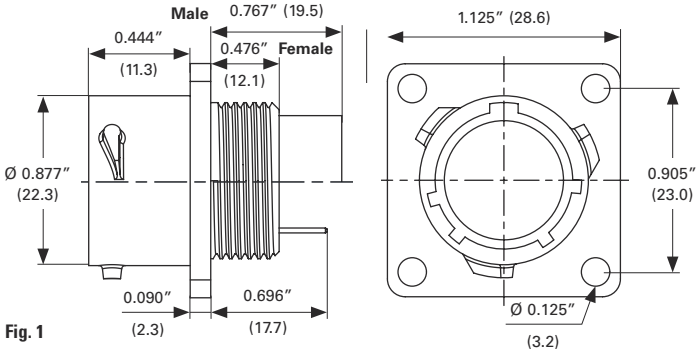


Fig. 1

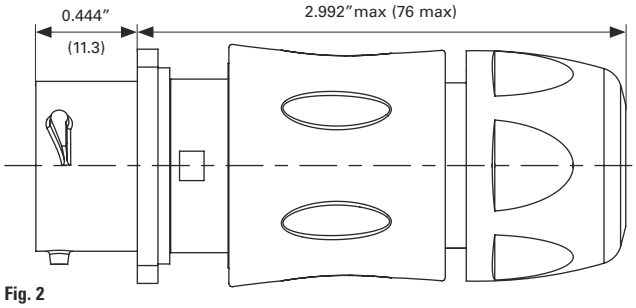


Fig. 2

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″(7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Free hanging - UTSX1JC and UTSXGJC

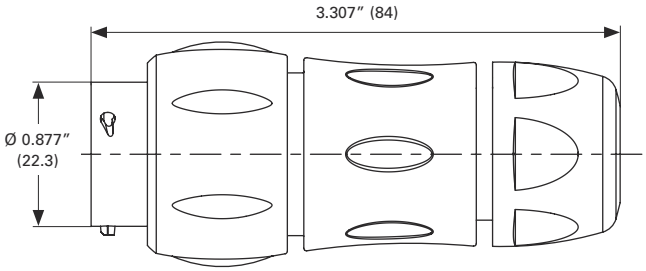


Fig. 3

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″(7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Plug - UTSX6, UTSX6JC and UTSX6GJC

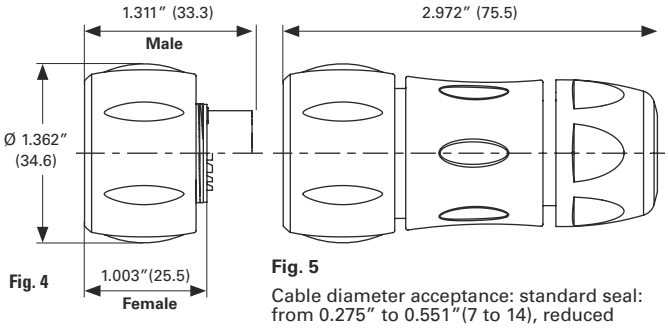


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″(7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Jam nut receptacle UTSX7

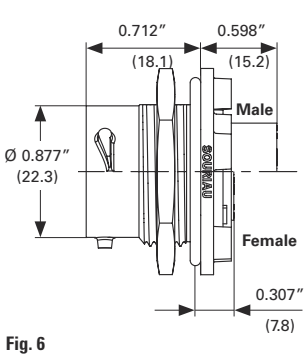


Fig. 6

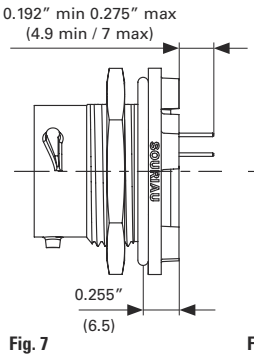


Fig. 7

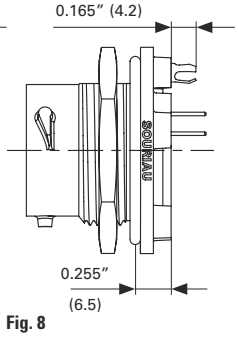


Fig. 8

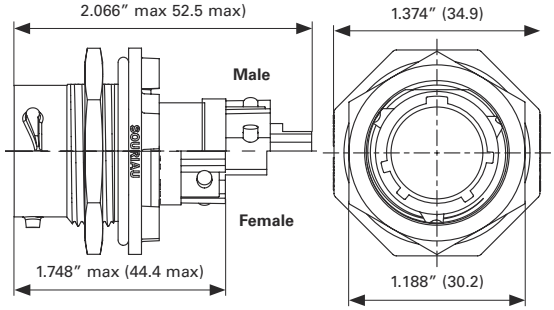


Fig. 9

Jam nut receptacle UTSX7GJC

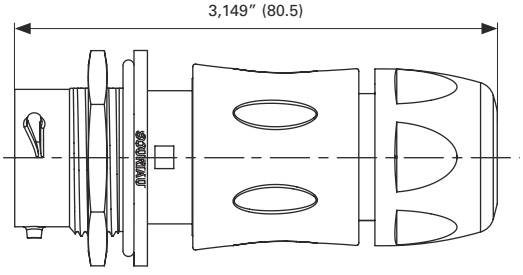
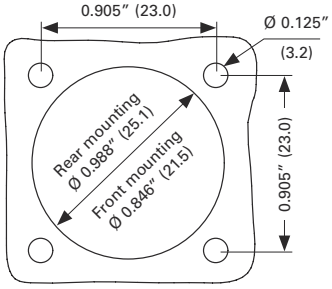


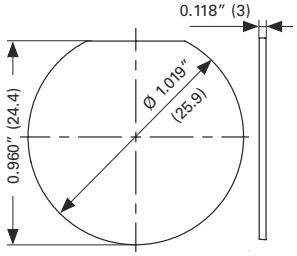
Fig. 10

Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

147 - 14E7/14D7 (Shell size 14, 6 + ground, 7x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS14DCG**
IP68 - Metal terminal	**UTS14DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS14DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX614DCG**

Plastic protective cap



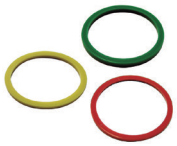
Part number receptacle cap	Part number plug cap
85005588A	**85005597**

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS714CCRG**	**UTS614CCRG**
Y for Yellow	**UTS714CCRY**	**UTS614CCRY**
R for Red	**UTS714CCRR**	**UTS614CCRR**

Tooling

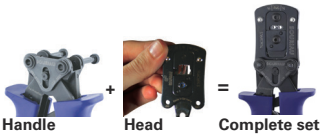
Tooling




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle + Head = Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K(1)**	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 211**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Souriau UTSX series

147 - 14E7/14D7 (Shell size 14, 6 + ground, 7x#16)

Contacts #16

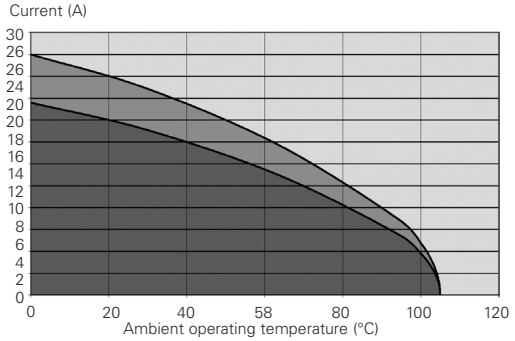
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
UTSX 147 10A 500V with AWG16 wire	7A 500V with AWG16 wire	7A 150V 1.5kV 3
UTSX 14E7/14D7 10A 600V with AWG16 wire	7A 600V with AWG16 wire	7A 150V 1.5kV 3

UTSX 147 - 14E7/14D7 derating curves



Current use
Limited use
Not recommended use

Test conditions

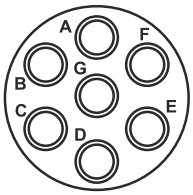
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 10E7/10D7



7 contacs 6A/250V
per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 91**	Square flange receptacle	Without (Fig. 1)	**UTSX010E7P**	**UTSX010E7S**
	Plug	Without (Fig. 5)	**UTSX610E7P**	**UTSX610E7S**
	Plug	Cable gland (Fig. 3)	**UTSX6JC10E7P**	**UTSX6JC10E7S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX710E7P**	**UTSX710E7S**
PCB contacts loaded see **Page 91**	Square flange receptacle	Without (Fig. 2)	**UTSX010D7P**	**UTSX010D7S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX710D7P**	**UTSX710D7S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX710D7P32**	**UTSX710D7S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

10E7/10D7 (Shell size 10, 7x#20)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

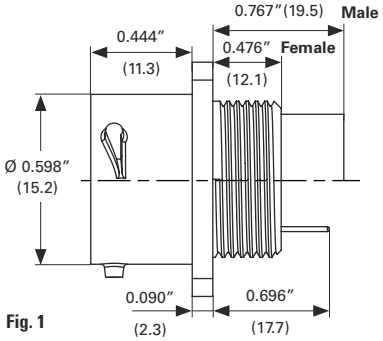
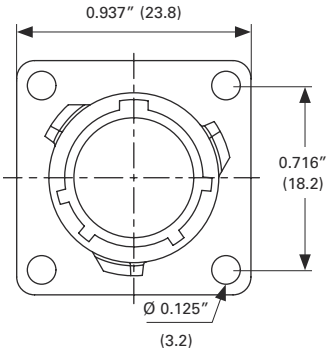


Fig. 1



Plug - UTSX6 and UTSX6JC

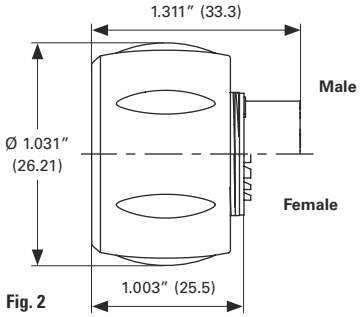


Fig. 2

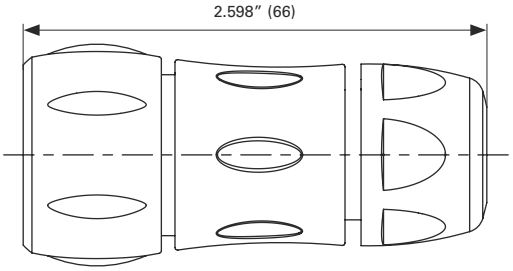


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.314″ (2.5 to 8), reduced seal: from 0.059″ to 0.196″ (1.5 to 5)

Jam nut receptacle UTSX7

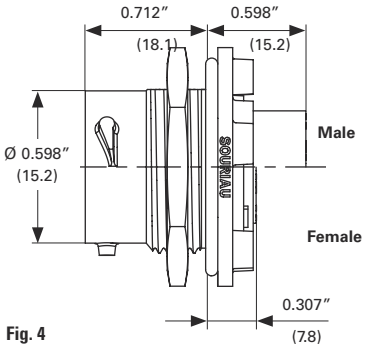


Fig. 4

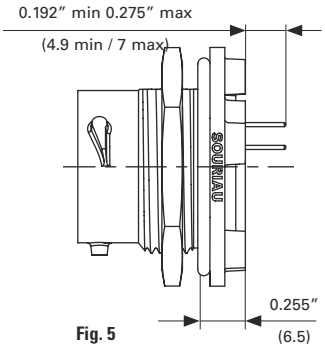


Fig. 5

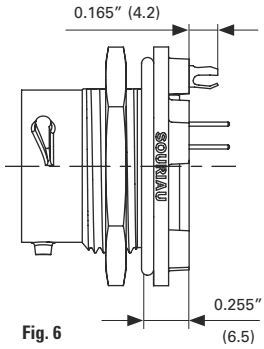
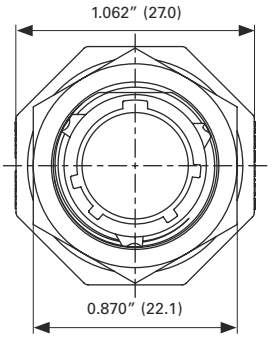
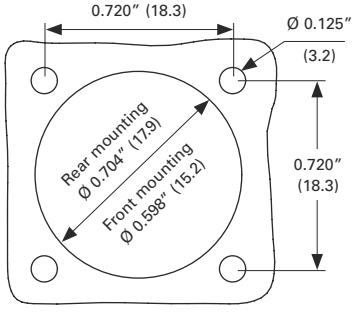


Fig. 6

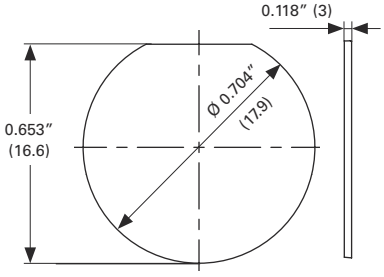


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS10DCG**
IP68 - Metal terminal	**UTS10DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS10DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX610DCG**

Plastic protective cap



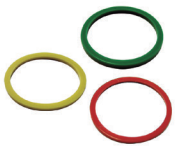
Part number receptacle cap	Part number plug cap
85005586A	**85005595**

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS710CCRG**	**UTS610CCRG**
Y for Yellow	**UTS710CCRY**	**UTS610CCRY**
R for Red	**UTS710CCRR**	**UTS610CCRR**

Souriau UTSX series

10E7/10D7 (Shell size 10, 7x#20)

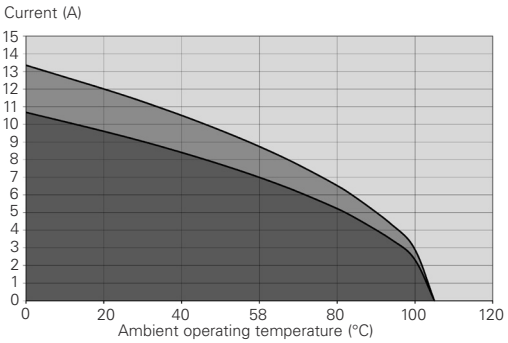
Contacts #20

Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length	
				inch	mm
Handsolder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	CSA	IEC
6A 250V with AWG20 wire	6A 250V with AWG20 wire	7A 50V 1.5kV 3

UTSX 10E7/10D7 derating curves



Current use

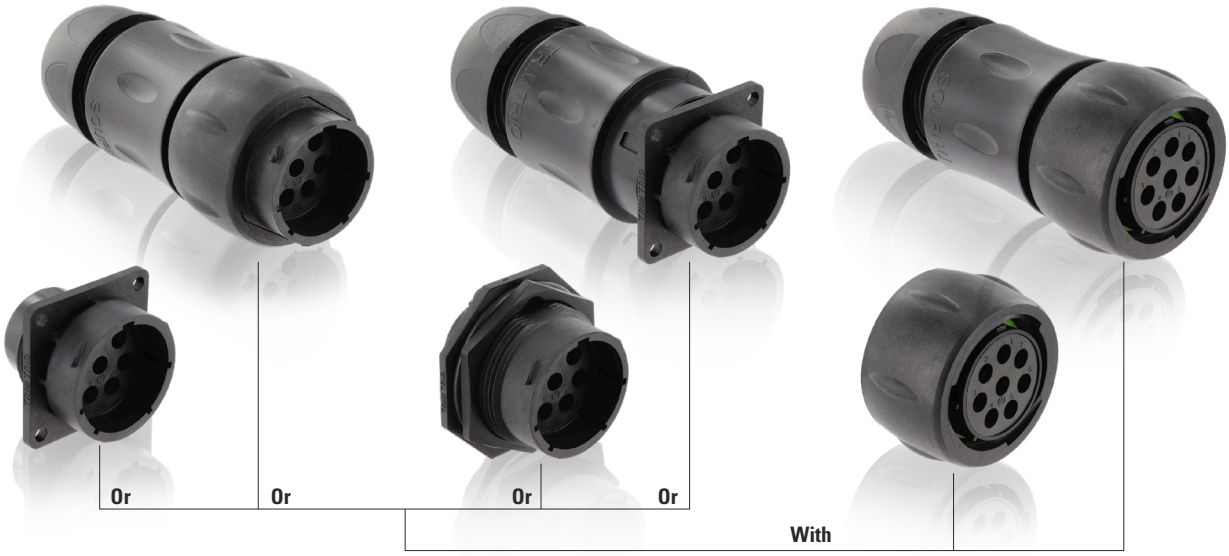
Limited use

Not recommended use

Test conditions

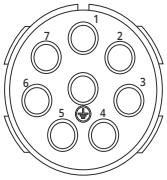
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 187G1



7 contacts + ground
23A/600V per UL 1977
with AWG12 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 96**	Square flange receptacle	Without (Fig. 1)	**UTSX0187G1P**	**UTSX0187G1S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC187G1P**	**UTSX0JC187G1S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC187G1P**	**UTSX1JC187G1S**
	Plug	Without (Fig. 4)	**UTSX6187G1P**	**UTSX6187G1S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC187G1P**	**UTSX6JC187G1S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7187G1P**	**UTSX7187G1S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX7187G1P32**	**UTSX7187G1S32**
PCB contacts supplied separately see **Page 96**	Square flange receptacle	Without (Fig. 1)	**UTSX0187G1P**	**UTSX0187G1S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX7187G1P**	**UTSX7187G1S**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

187G1 (Shell size 18, 7 + ground, 8x#12)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

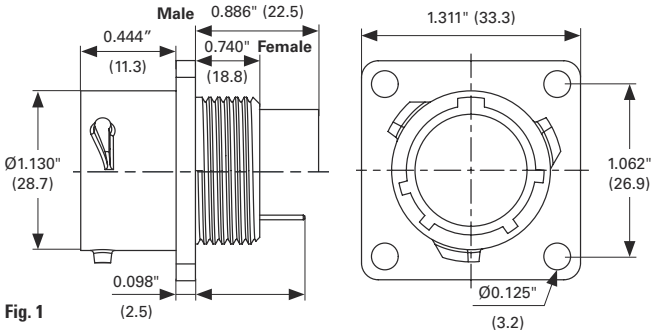


Fig. 1

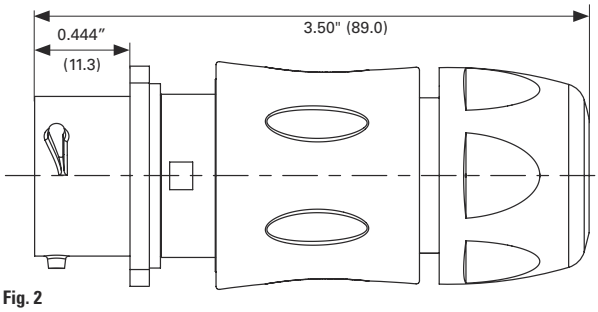


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Free hanging - UTSX1JC and UTSXGJC

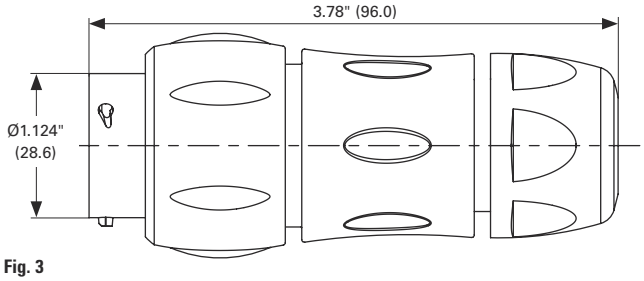


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Plug - UTSX6 and UTSX6JC

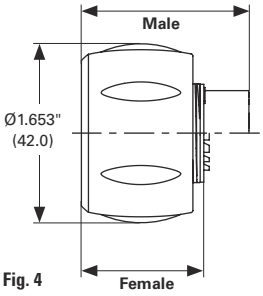


Fig. 4

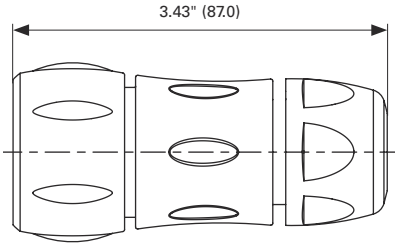


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Jam nut receptacle UTSX7

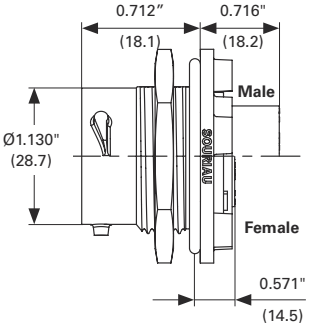


Fig. 6

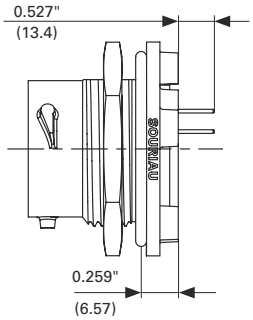


Fig. 7

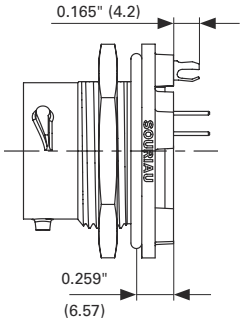
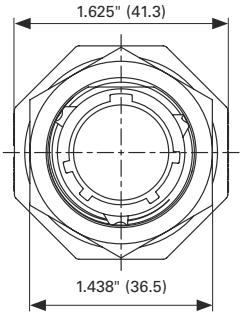
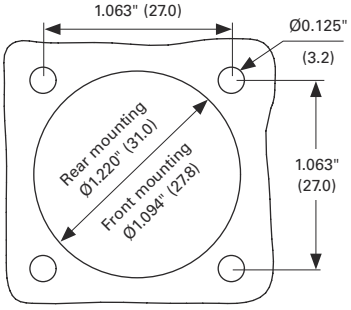


Fig. 8

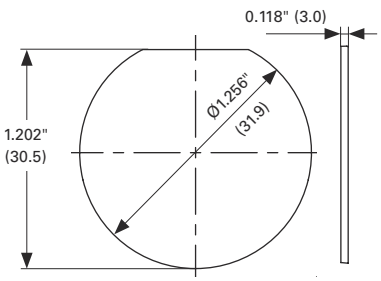


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS18DCG**
IP68 - Metal terminal	**UTS18DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS18DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX618DCG**

Plastic protective cap



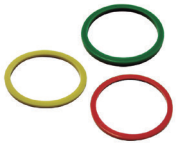
Part number receptacle cap	Part number plug cap
85005590A	**85005599**

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS718CCRG**	**UTS618CCRG**
Y for Yellow	**UTS718CCRY**	**UTS618CCRY**
R for Red	**UTS718CCRR**	**UTS618CCRR**

Tooling

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

Souriau UTSX series

187G1 (Shell size 18, 7 + ground, 8x#12)

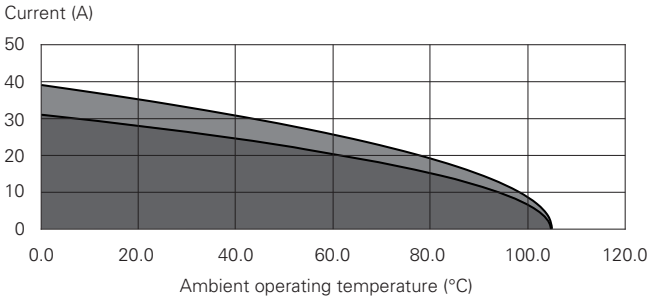
Contacts #12

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	**Contact type**	**AWG**	**inch²**	**mm²**	**Male**	**Female**	**inch**	**mm**	**inch**	**mm**
Crimp contacts	Machined	20	0.020″	0.52	**82911457NA**	**82911456A**	0.034″	0.87	0.192″	4.90
		20	0.020″	0.52	**82911459NA**	**82911458A**	0.044″	1.12	0.192″	4.90
		18	0.031″	0.80	**82911461NA**	**82911460A**	0.055″	1.42	0.192″	4.90
		16	0.059″	1.48	**82911463NA**	**82911462A**	0.067″	1.72	0.192″	4.90
		14	0.098″	2.48	**82911465NA**	**82911464A**	0.087″	2.20	0.192″	4.90
		12	0.157″	4.00	**82911467NA**	**82911466A**	0.111″	2.82	0.192″	4.90

Electrical characteristics

UL	CSA	IEC
23A 600V with AWG12 wire	22A 600V with AWG12 wire	23A 250V 4kV3

UTSX 187G1 derating curves

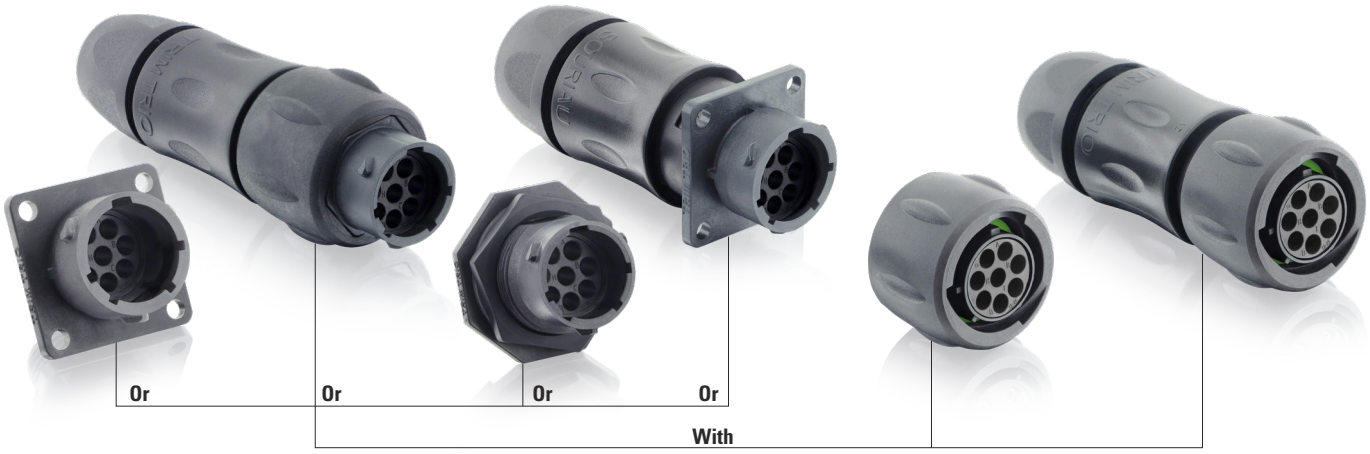


- Current use
- Limited use
- Not recommended use

Test conditions

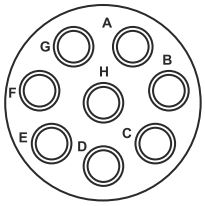
Contact used: machined contacts
Wires used: 12 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 128



8 contacts
10A/500V per
UL 1977 with
AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 101**	Square flange receptacle	Without (Fig. 1)	**UTSX0128P**	**UTSX0128S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC128P**	**UTSX0JC128S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC128P**	**UTSX1JC128S**
	Free hanging receptacle	Cable gland and grommet (Fig. 3)	**UTSX1GJC128P**	–
	Plug	Without (Fig. 4)	**UTSX6128P**	**UTSX6128S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC128P**	**UTSX6JC128S**
	Plug	Cable gland and grommet (Fig. 5)	–	**UTSX6GJC128S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7128P**	**UTSX7128S**
	Jam nut receptacle	Cable gland and grommet (Fig. 8)	**UTSX7GJC128P**	–
PCB contacts supplied separately see **Page 101**	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	**UTSX7128P**	**UTSX7128S**
PCB contacts loaded see **Page 101**	Jam nut receptacle with stand off and hold down clip	Without (Fig. 7)	**UTSX7128PSEK9**	–

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

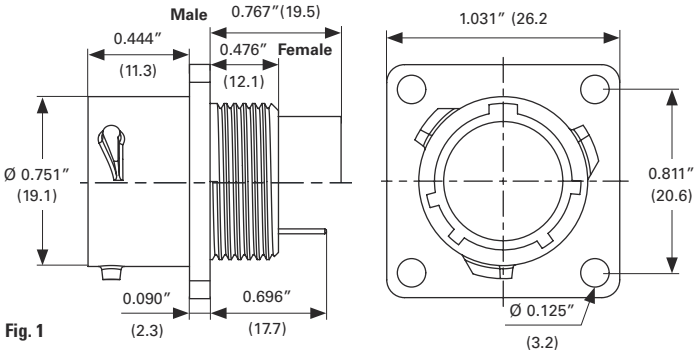


Fig. 1

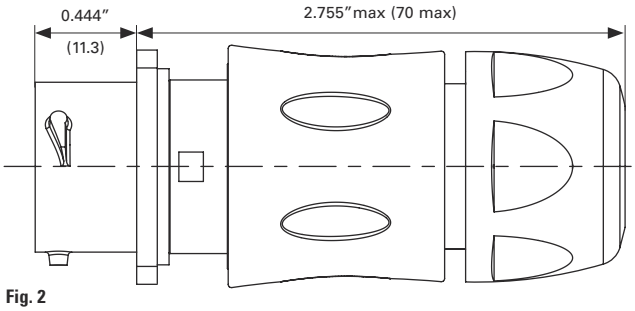


Fig. 2

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Free hanging - UTSX1JC and UTSX1GJC

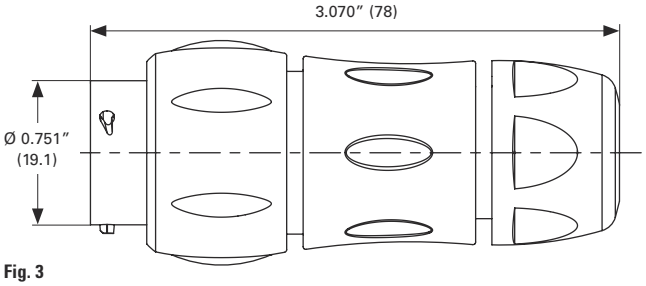


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Plug - UTSX6, UTSX6JC and UTSX6GJC

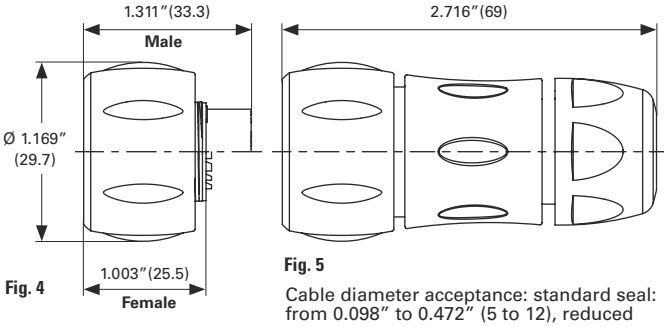


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Jam nut receptacle UTSX7 and UTSX7GJC

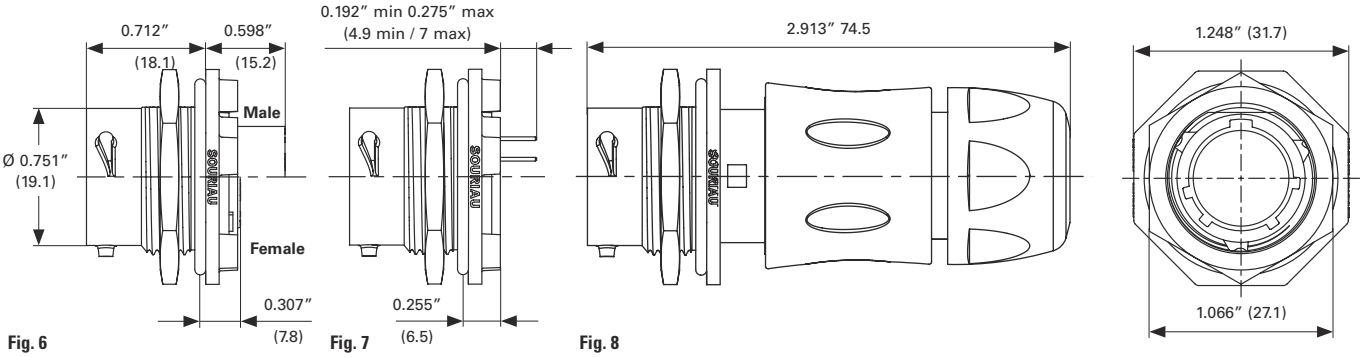


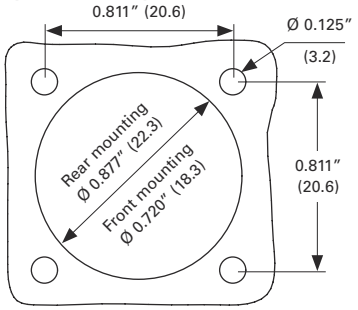
Fig. 6

Fig. 7

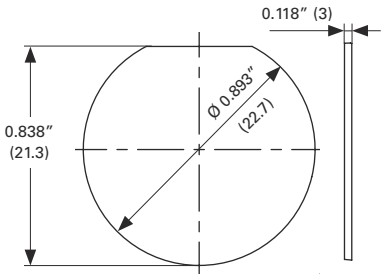
Fig. 8

Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS12DCG**
IP68 - Metal terminal	**UTS12DCGR**

Plug sealing cap



Description	Part number
IP68	**UTX612DCG**

Plastic protective cap



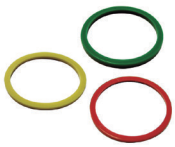
Part number receptacle cap	Part number plug cap
85005587A	**85005596**

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS712CCRG**	**UTS612CCRG**
Y for Yellow	**UTS712CCRY**	**UTS612CCRY**
R for Red	**UTS712CCRR**	**UTS612CCRR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS12DCGE**

Tooling

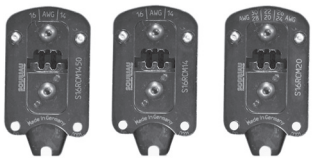
Tooling

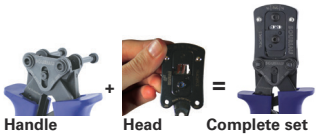




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling
(without Shandles)





Handle + Head = Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K**(1)	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 211**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Contacts #16

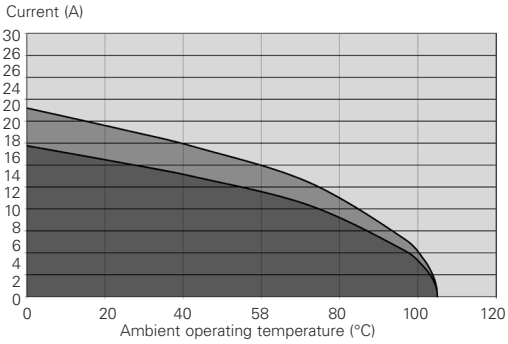
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 202**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 202**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 202**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 202**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	7A 500V with AWG16 wire	10A 80V 1.5kV 3

UTSX 128 derating curves



Derating curves based on continuous current application.

- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 16 AWG

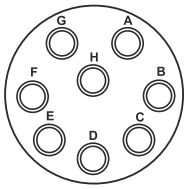
Souriau UTSX series

12E8/12D8 (Shell size 12, 8x#20)



Connector part number

UTSX 12E8/12D8



8 contacts
4.5A/250V per
UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 105**	Square flange receptacle	Without (Fig. 1)	**UTSX012E8P**	**UTSX012E8S**
	Plug	Without (Fig. 2)	**UTSX612E8P**	**UTSX612E8S**
	Plug	Cable gland (Fig. 3)	**UTSX6JC12E8P**	**UTSX6JC12E8S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX712E8P**	**UTSX712E8S**
PCB contacts loaded see **Page 105**	Square flange receptacle	Without (Fig. 1)	**UTSX012D8P**	**UTSX012D8S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX712D8P**	**UTSX712D8S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX712D8P32**	**UTSX712D8S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

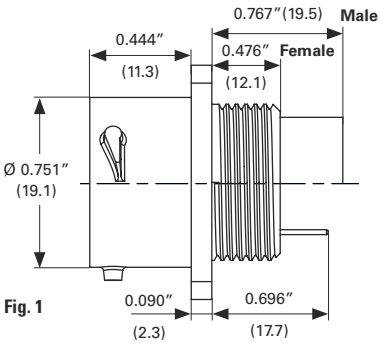
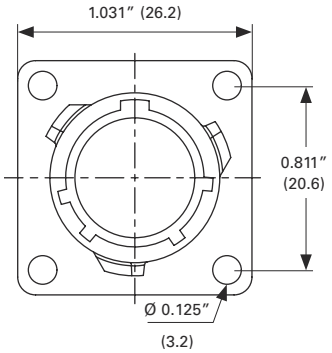


Fig. 1



Plug - UTSX6 and UTSX6JC

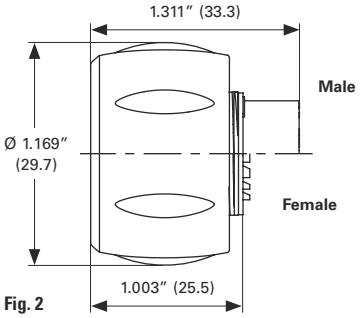


Fig. 2

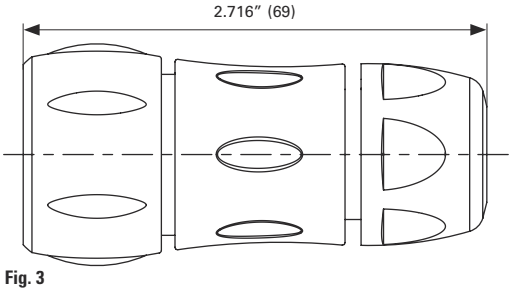


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Jam nut receptacle UTSX7

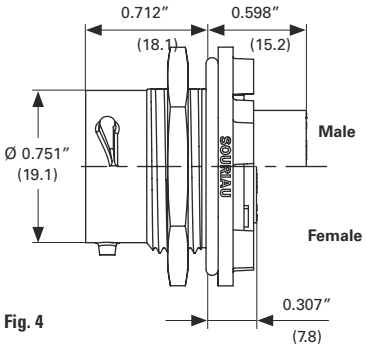


Fig. 4

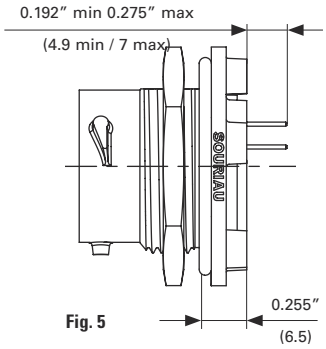


Fig. 5

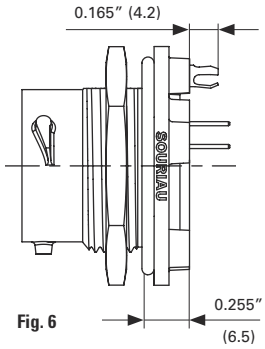
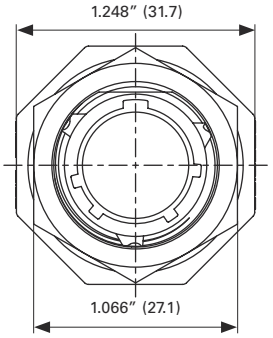
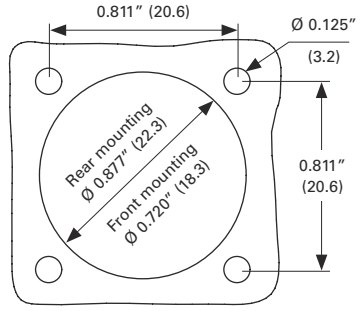


Fig. 6

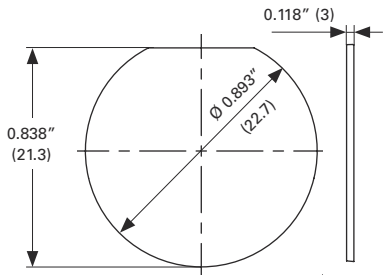


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS12DCG**
IP68 - Metal terminal	**UTS12DCGR**

Plug sealing cap



Description	Part number
IP68	**UTX612DCG**

Plastic protective cap



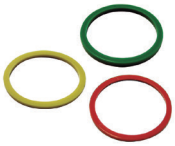
Part number receptacle cap	Part number plug cap
85005587A	85005596

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS712CCRG**	**UTS612CCRG**
Y for Yellow	**UTS712CCRY**	**UTS612CCRY**
R for Red	**UTS712CCRR**	**UTS612CCRR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS12DCGE**

Contacts #20

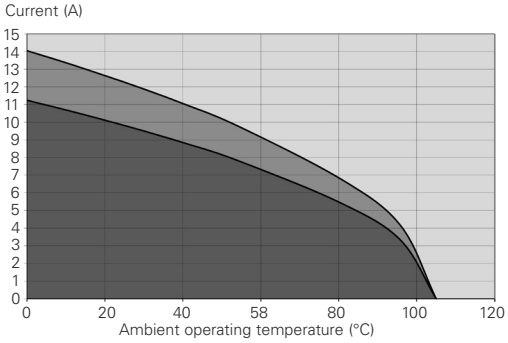
Contact type	Plating	Cable acceptance (AWG)	Cable acceptance inch²	Cable acceptance mm²	Wire stripping length inch	Wire stripping length mm
Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20-18	0.020"-0.031"	0.32-0.80	0.149"	3.8
PCB Machined[1]	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–

(1) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
4.5A 250V with AWG20 wire	4.5A 250V with AWG20 wire	6A 32V 1.5kV 3

UTSX 12E8/12D8 derating curves



Derating curves based on continuous current application.

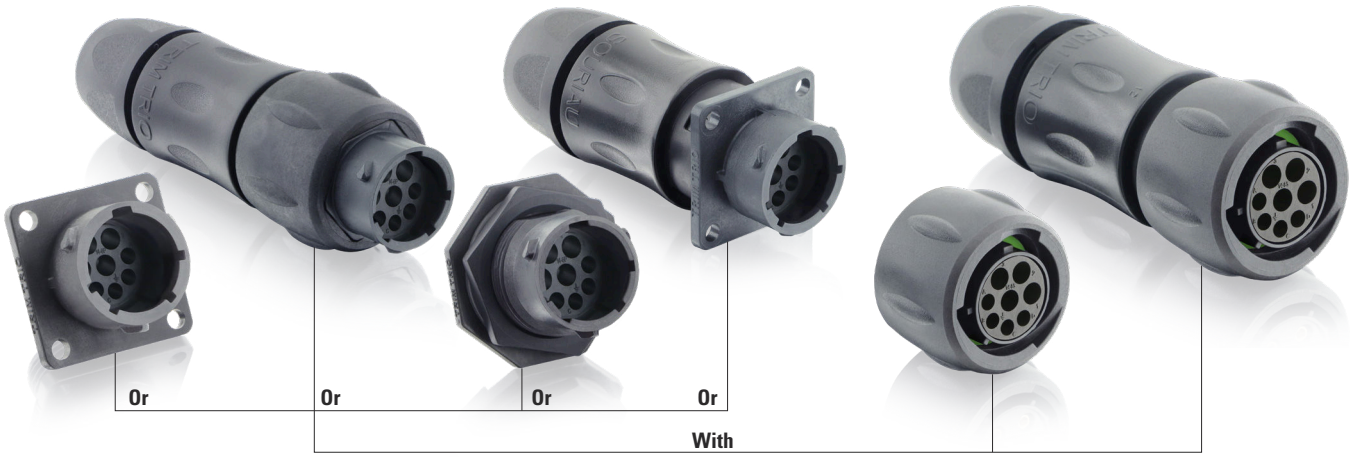
- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 20 AWG

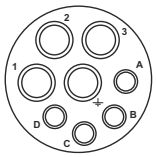
Souriau UTSX series

148 (Shell size 14, 4x#16, 4x#12)



Connector part number

UTSX 148



4 contacts 25A 600V per UL1977 with AWG14 wire

4 contacts 5A/600V per UL1977 AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 111**	Square flange receptacle	Without (Fig. 1)	**UTSX0148P**	**UTSX0148S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC148P**	**UTSX0JC148S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC148P**	**UTSX1JC148S**
	Plug	Without (Fig. 4)	**UTSX6148P**	**UTSX6148S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC148P**	**UTSX6JC148S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7148P**	**UTSX7148S**

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

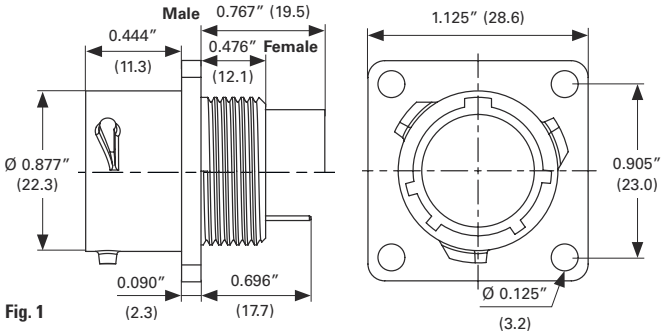


Fig. 1

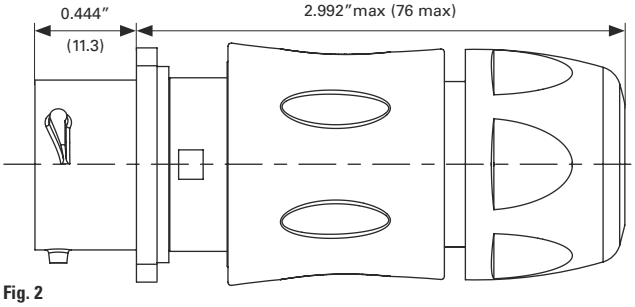


Fig. 2

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″(7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Free hanging - UTSX1JC

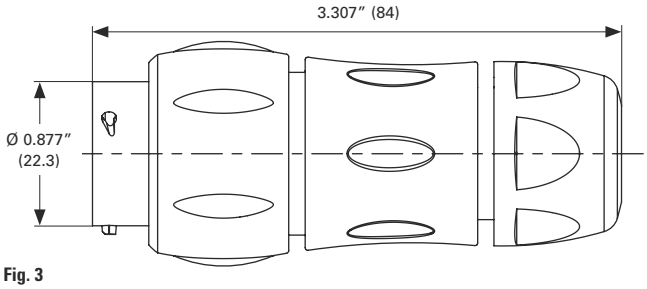


Fig. 3

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″(7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Plug - UTSX6 and UTSX6JC

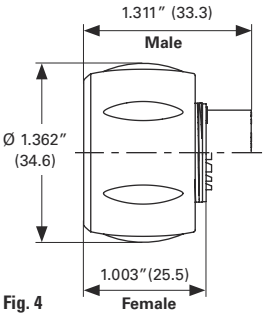


Fig. 4

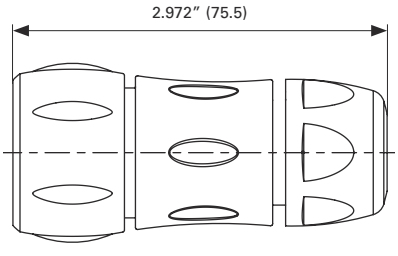


Fig. 5

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″(7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Jam nut receptacle UTSX7

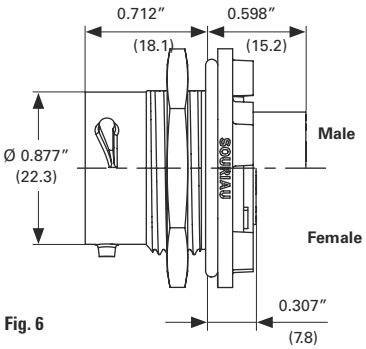
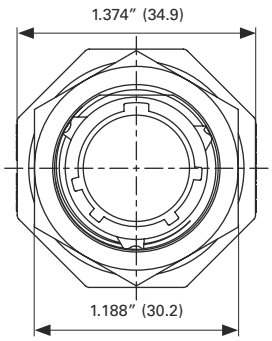
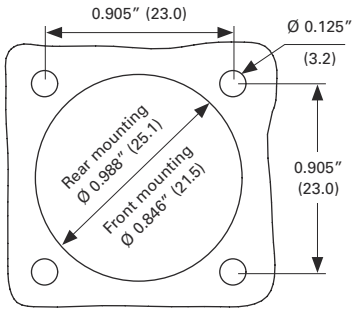


Fig. 6

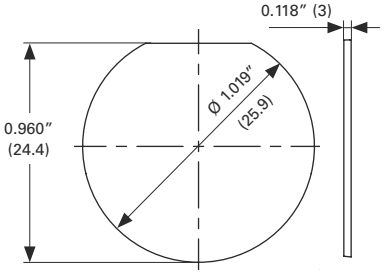


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

148 (Shell size 14, 4x#16, 4x#12)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS14DCG**
IP68 - Metal terminal	**UTS14DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS14DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX614DCG**

Plastic protective cap



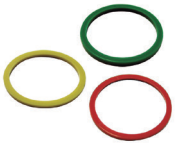
Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS714CCRG**	**UTS614CCRG**
Y for Yellow	**UTS714CCRY**	**UTS614CCRY**
R for Red	**UTS714CCRR**	**UTS614CCRR**

Tooling

#16 machined or stamped contacts

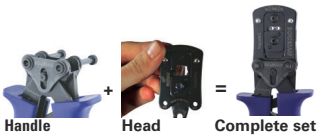




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling
(without Shandles)





Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K**(1)	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 198**
* Heads to be used with handle PN: SHANDLES

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 210**

Extraction tool #20



Description	Part number
Contacts #12 Ø 0.094" (2.4)	51060210924

Dimensions in inches (millimeters)

Souriau UTSX series

148 (Shell size 14, 4x#16, 4x#12)

Contacts #16

Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002″-0.003″	0.05-0.08	**RM28M1K**[1]	**RC28M1K**[1]	0.021″	0.55	0.039″	1.00
	Machined	26-24	0.005″-0.009″	0.13-0.25	**RM24M9K**[1]	**RC24M9K**[1]	0.031″	0.80	0.062″	1.58
	Machined	22-20	0.012″-0.020″	0.32-0.52	**RM20M13K**[1]	**RC20M13K**[1]	0.045″	1.15	0.070″	1.80
	Machined	22-20	0.012″-0.020″	0.32-0.52	**RM20M12K**[1]	**RC20M12K**[1]	0.045″	1.15	0.086″	2.20
	Machined	20-16	0.020″-0.059″	0.52-1.48	**RM16M23K**[1]	**RC16M23K**[1]	0.070″	1.80	0.125″	3.20
	Machined	16-14	0.059″-0.098″	1.48-2.48	**RM14M30K**[1]	**RC14M30K**[1]	0.090″	2.30	0.125″	3.20
	Stamped and formed reeled contacts See note [2] for loose piece	26-24	0.005″-0.009″	0.13-0.25	**SM24M1TK6**[1][2]	**SC24M1TK6**[1][2]	–	–	0.035″-0.062″	0.90-1.58
		22-20	0.012″-0.020″	0.32-0.52	**SM20M1TK6**[1][2]	**SC20M1TK6**[1][2]	–	–	0.047″-0.082″	1.20-2.10
		18-16	0.031″-0.059″	0.80-1.48	**SM16M1TK6**[1][2]	**SC16M1TK6**[1][2]	–	–	0.125″	3.20
		18-16	0.031″-0.059″	0.80-1.48	**SM16M11TK6**[1][2]	**SC16M11TK6**[1][2]	–	–	0.118″	3.00
		14	0.098″	2.48	**SM14M1TK6**[1][2]	**SC14M1TK6**[1][2]	–	–	0.125″	3.20
PCB	Machined [3]	–			**RM20M12E83K**[1]	**RC20M12E84K**[1]	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

Contacts #12

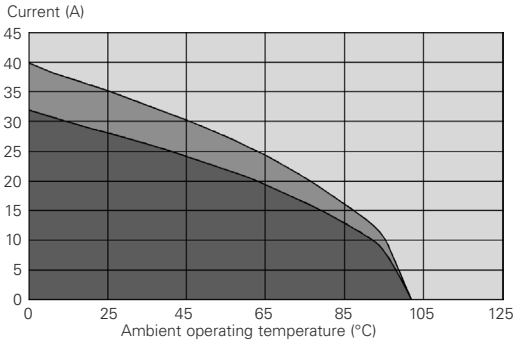
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch mm		Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	20	–	–	**82911457NA**[1]	**82911456A**[1]	0.027″	0.7	0.192″	4.90
		20	–	–	**82911459NA**[1]	**82911458A**[1]	0.044″	1.12	0.192″	4.90
		18	–	–	**82911461NA**[1]	**82911460A**[1]	0.055″	1.42	0.192″	4.90
		16	–	–	**82911463NAv**	**82911462A**[1]	0.067″	1.72	0.192″	4.90
		14	–	–	**82911465NA**[1]	**82911464A**[1]	0.087″	2.20	0.192″	4.90
		12	–	–	**82911467NA**[1]	**82911466A**[1]	0.111″	2.82	0.192″	4.90

(1): Example of plating, for other plating see **Page 199**

Electrical characteristics

UL	CSA	IEC
25A 600V with AWG14 5A 600V with AWG20	17A 600V with AWG14 5A 600V with AWG20	17A 230V 1.5kV 3

UTSX 148 derating curves



Current use
Limited use
Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

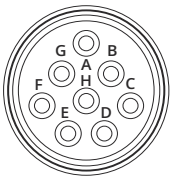
Souriau UTSX series

16E8/16D8 (Shell size 16, 8x#16)



Connector part number

UTSX 16E8 / 16D8



8 contacts
10A/500V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 115**	Square flange receptacle	Without (Fig. 1)	**UTSX016E8P**	**UTSX016E8S**
	Plug	Without (Fig. 4)	**UTSX616E8P**	**UTSX616E8S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC16E8P**	**UTSX6JC16E8S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX716E8P**	**UTSX716E8S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX716E8P32**	**UTSX716E8S32**
PCB contacts loaded see **Page 115**	Square flange receptacle	Without (Fig. 3)	**UTSX016D8P**	**UTSX016D8S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX716D8P**	**UTSX716D8S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX716D8P32**	**UTSX716D8S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

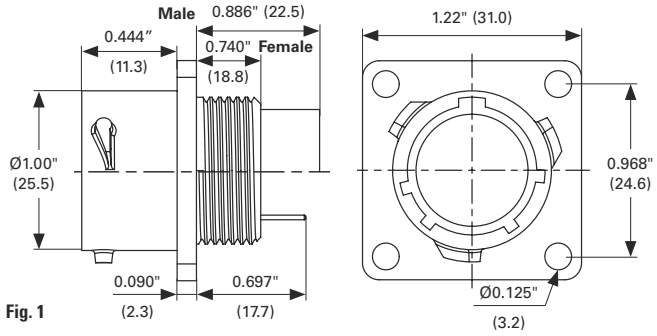


Fig. 1

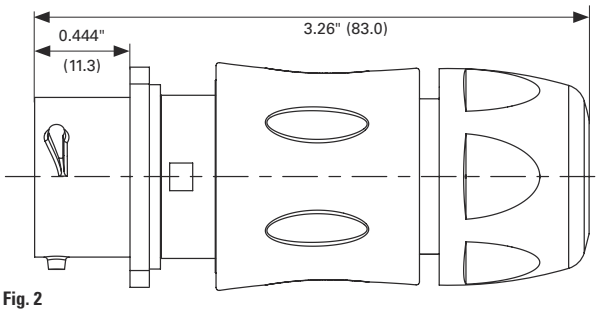


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

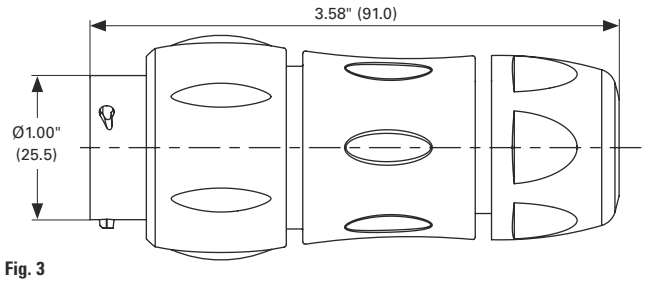


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

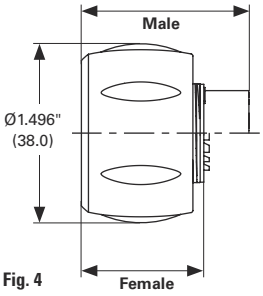


Fig. 4

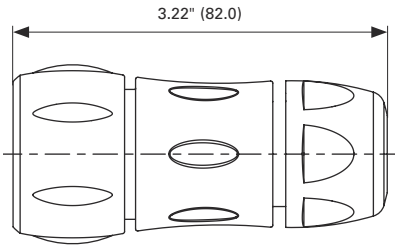


Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

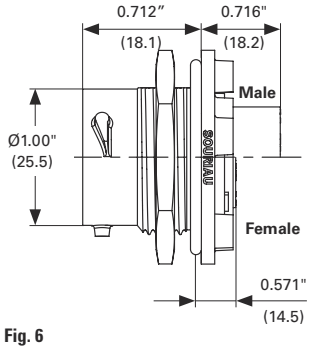


Fig. 6

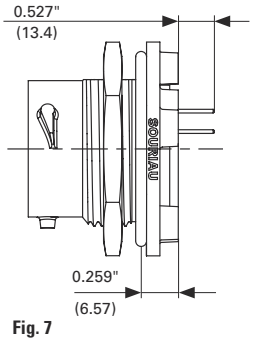


Fig. 7

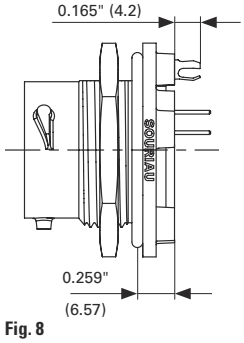
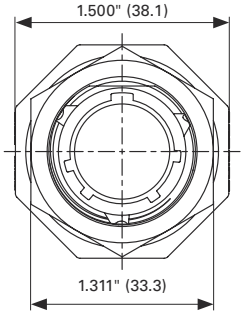
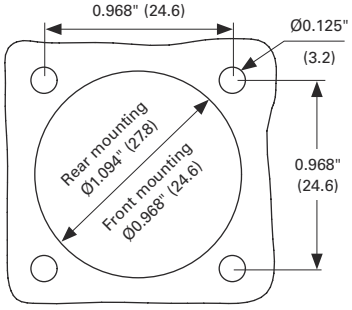


Fig. 8

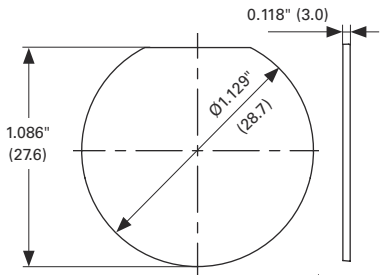


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

16E8/16D8 (Shell size 16, 8x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS16DCG**
IP68 - Metal terminal	**UTS16DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS16DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX616DCG**

Plastic protective cap



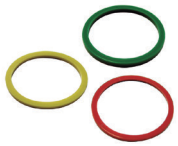
Part number receptacle cap	Part number plug cap
85005589A	**85005598**

Gasket



Part number
UTFD15B

Color coding rings

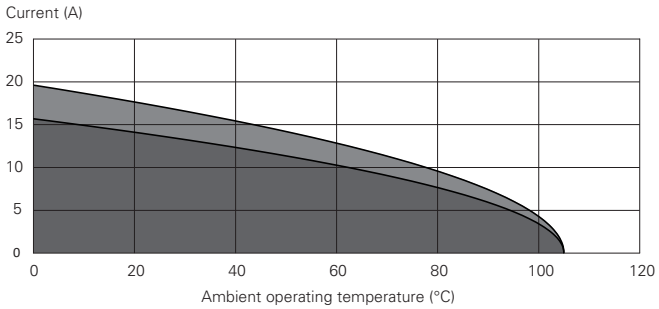


Description	Part number receptacles	Part number plugs
G for Green	**UTS716CCRG**	**UTS616CCRG**
Y for Yellow	**UTS716CCRY**	**UTS616CCRY**
R for Red	**UTS716CCRR**	**UTS616CCRR**

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	10A 500V with AWG16 wire	13A 80V 3kV 3

UTSX 16E8/16D8 derating curves



- Current use
- Limited use
- Not recommended use

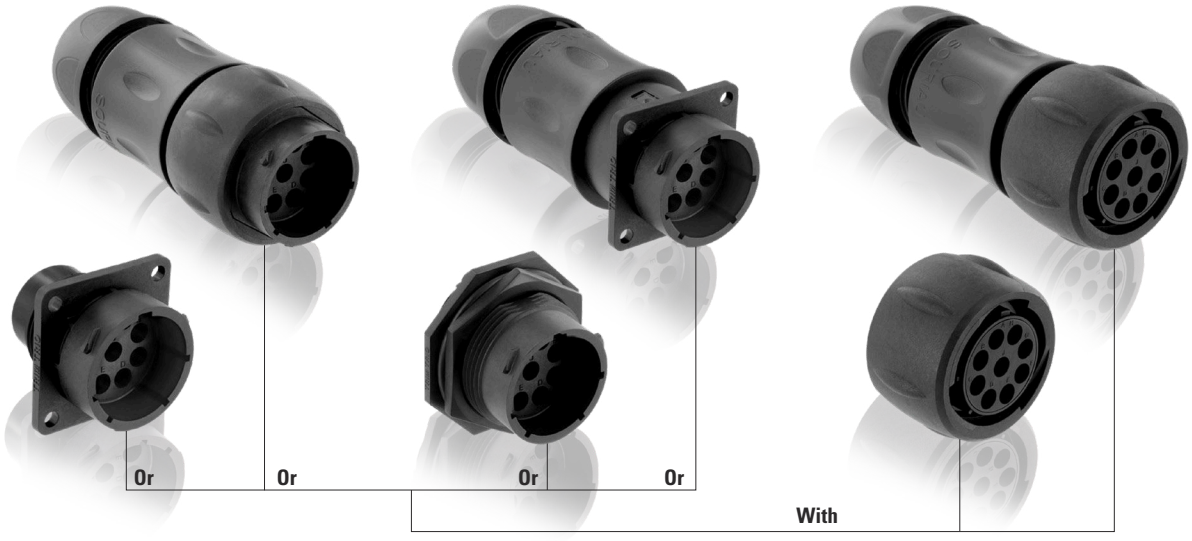
Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

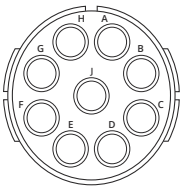
Souriau UTSX series

169 (Shell size 16, 9x#12)



Connector part number

UTSX 169



9 contacts
23A/600V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 119**	Square flange receptacle	Without (Fig. 1)	**UTSX0169P**	**UTSX0169S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC169P**	**UTSX0JC169S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC169P**	**UTSX1JC169S**
	Plug	Without (Fig. 4)	**UTSX6169P**	**UTSX6169S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC169P**	**UTSX6JC169S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX7169P**	**UTSX7169S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX7169P32**	**UTSX7169S32**
PCB contacts supplied separately see **Page 119**	Square flange receptacle	Without (Fig. 1)	**UTSX0169P**	**UTSX0169S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX7169P**	**UTSX7169S**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

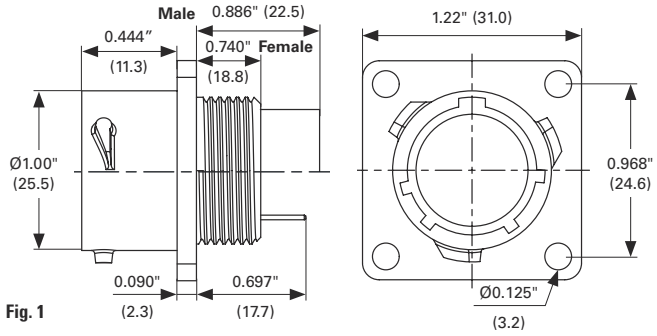


Fig. 1

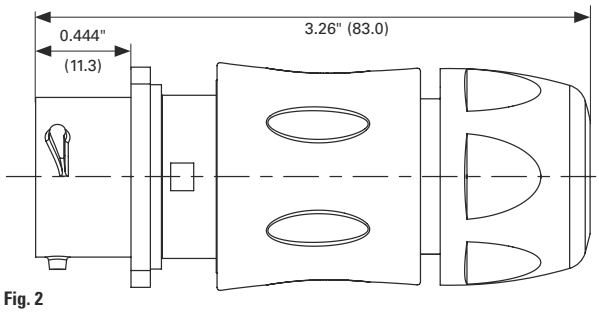


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

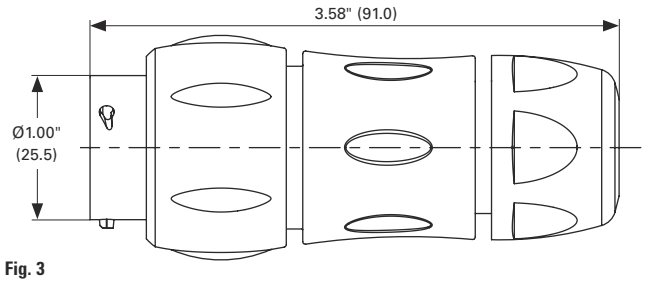


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

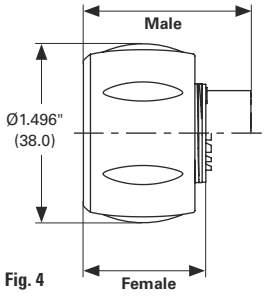


Fig. 4

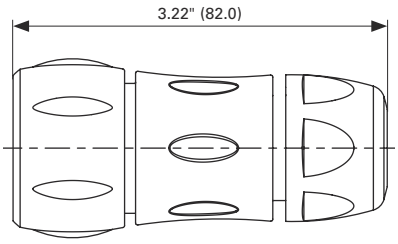


Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

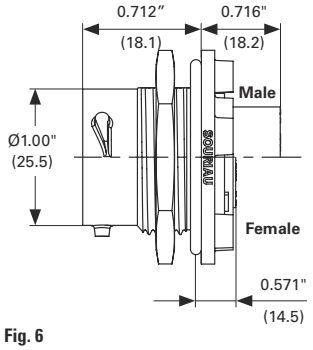


Fig. 6

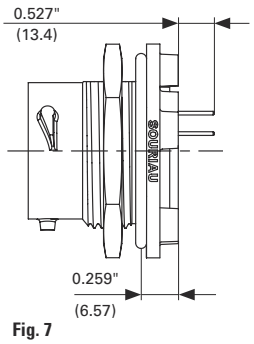


Fig. 7

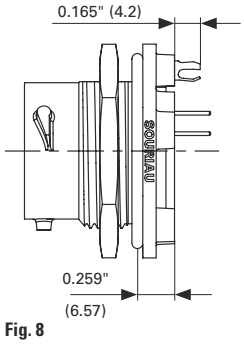
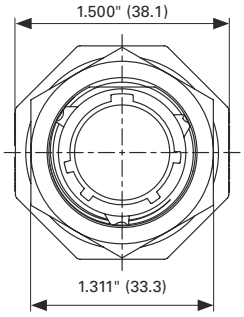
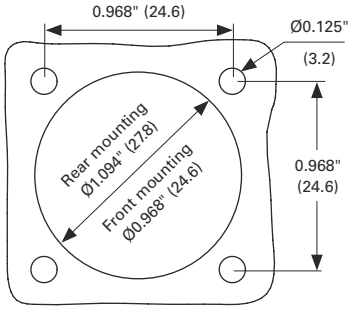


Fig. 8

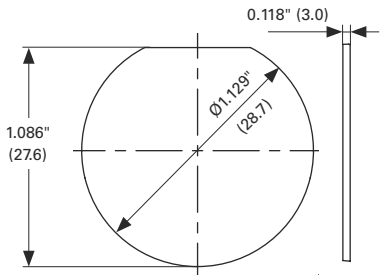


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

169 (Shell size 16, 9x#12)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS16DCG**
IP68 - Metal terminal	**UTS16DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS16DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX616DCG**

Plastic protective cap



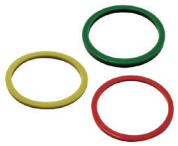
Part number receptacle cap	Part number plug cap
85005589A	**85005598**

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS716CCRG**	**UTS616CCRG**
Y for Yellow	**UTS716CCRY**	**UTS616CCRY**
R for Red	**UTS716CCRR**	**UTS616CCRR**

Tooling

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

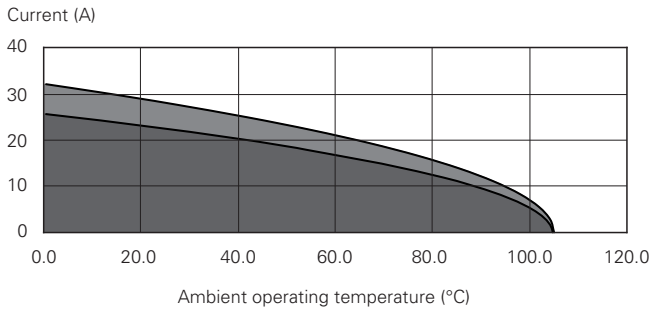
Contacts #12

Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	20	0.020"	0.52	**82911457NA**	**82911456A**	0.034"	0.87	0.192"	4.90
		20	0.020"	0.52	**82911459NA**	**82911458A**	0.044"	1.12	0.192"	4.90
		18	0.031"	0.80	**82911461NA**	**82911460A**	0.055"	1.42	0.192"	4.90
		16	0.059"	1.48	**82911463NA**	**82911462A**	0.067"	1.72	0.192"	4.90
		14	0.098"	2.48	**82911465NA**	**82911464A**	0.087"	2.20	0.192"	4.90
		12	0.157"	4.00	**82911467NA**	**82911466A**	0.111"	2.82	0.192"	4.90

Electrical characteristics

UL	CSA	IEC
23A 600V with AWG12	17A 600V with AWG12	22A 160V 2.5kV 3

UTSX 169 derating curves



Current use
Limited use
Not recommended use

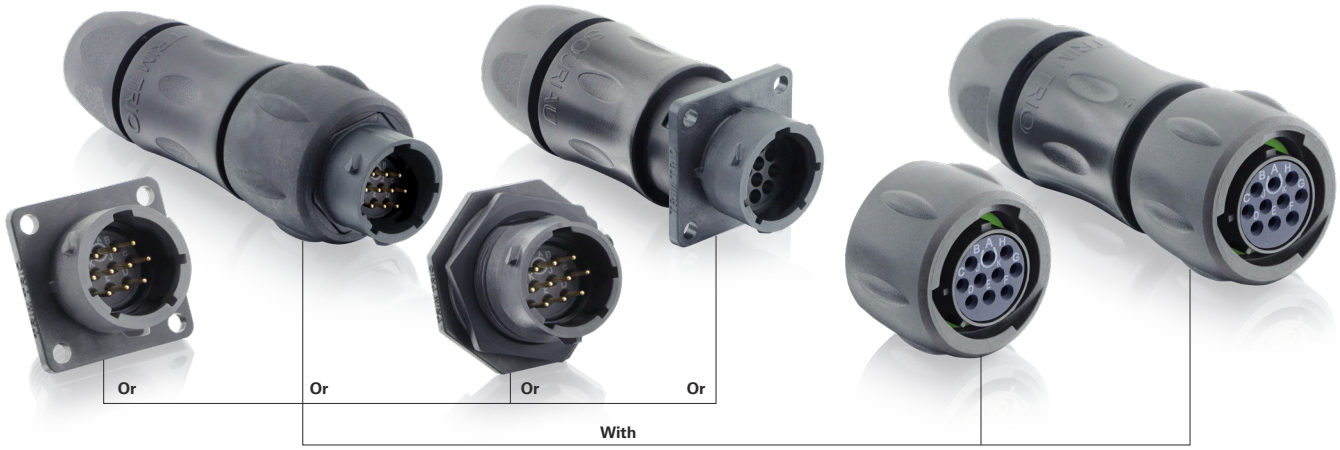
Test conditions

Contact used: machined contacts
Wires used: 12 AWG

Derating curves based on continuous current application.

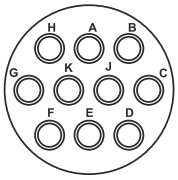
Souriau UTSX series

1210 - 12E10/12D10 (Shell size 12, 10x#20)



Connector part number

UTSX



1210

10 contacts
5A/250V
per UL 1977
with AWG20 wire

12E10/12D10

10 contacts 4.5A /
250V per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 124**	Square flange receptacle	Without (Fig. 1)	**UTSX01210P**	**UTSX01210S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1210P**	**UTSX0JC1210S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1210P**	**UTSX1JC1210S**
	Plug	Without (Fig. 4)	**UTSX61210P**	**UTSX61210S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1210P**	**UTSX6JC1210S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71210P**	**UTSX71210S**
Handsolder electrical contacts loaded see **Page 124**	Square flange receptacle	Without (Fig. 1)	**UTSX012E10P**	**UTSX012E10S**
	Plug	Without (Fig. 4)	**UTSX612E10P**	**UTSX612E10S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC12E10P**	**UTSX6JC12E10S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX712E10P**	**UTSX712E10S**
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	**UTSX012D10P**	**UTSX012D10S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX712D10P**	**UTSX712D10S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX712D10P32**	**UTSX712D10S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

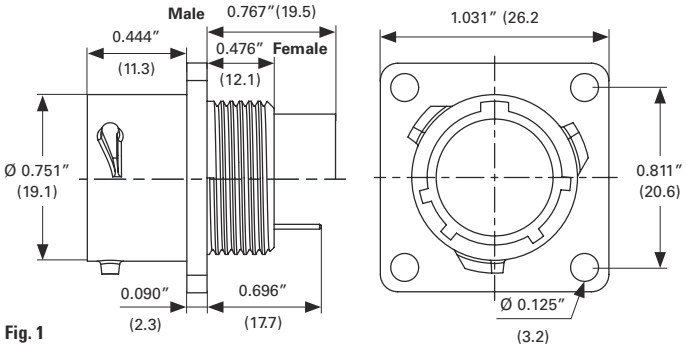


Fig. 1

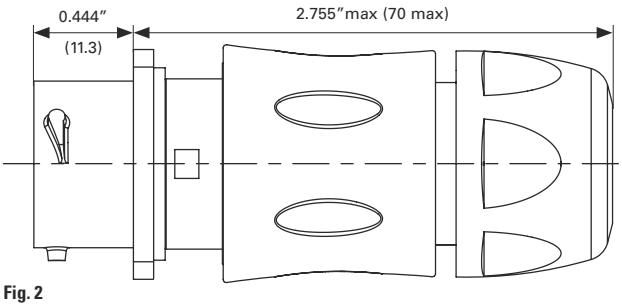


Fig. 2

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Free hanging - UTSX1JC

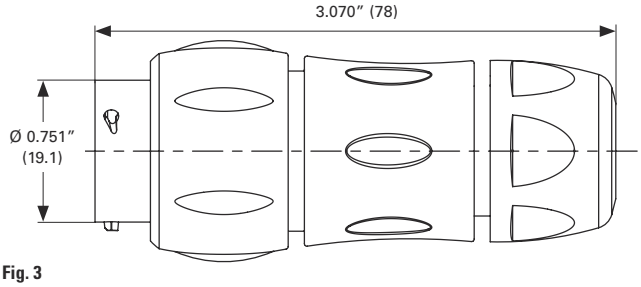


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Plug - UTSX6 and UTSX6JC

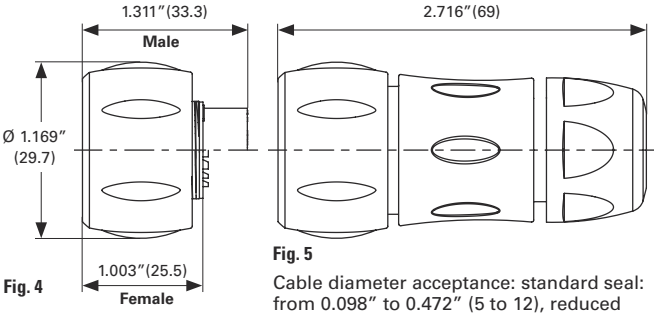


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Jam nut receptacle UTSX7

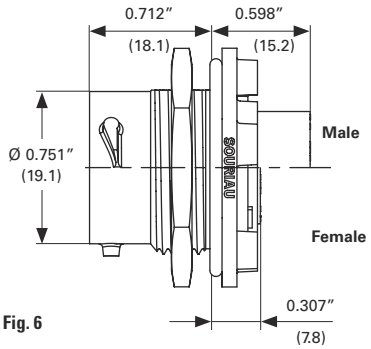


Fig. 6

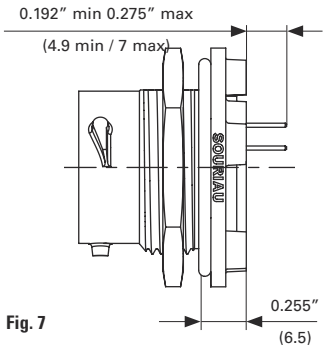


Fig. 7

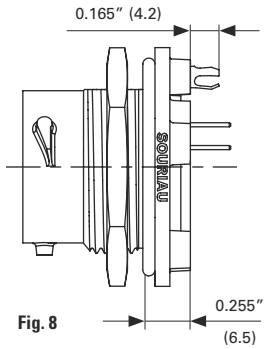
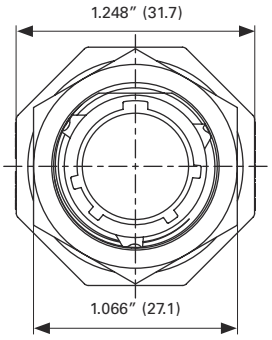
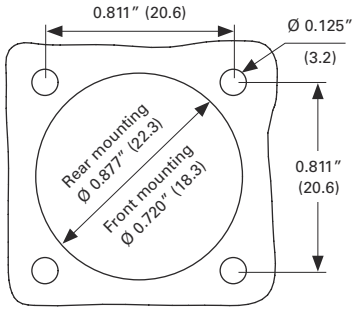


Fig. 8

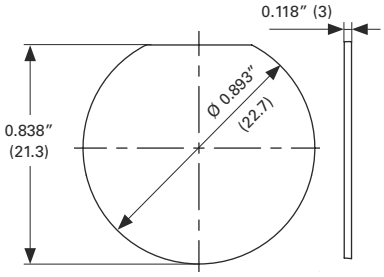


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

1210 - 12E10/12D10 (Shell size 12, 10x#20)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS12DCG**
IP68 - Metal terminal	**UTS12DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS12DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX612DCG**

Plastic protective cap



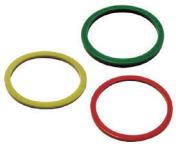
Part number receptacle cap	Part number plug cap
85005587A	**85005596**

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS712CCRG**	**UTS612CCRG**
Y for Yellow	**UTS712CCRY**	**UTS612CCRY**
R for Red	**UTS712CCRR**	**UTS612CCRR**

Tooling

Tooling

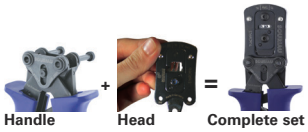




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1)	**RM/RC 24W3K(1)**	**S20RCM***
	RM/RC 20W3K(1)	**S20RCM***
	RM/RC 18W3K(1)	**S20RCM***
	SM/SC 24WL3(1)(2)	**S20SCM20***
	SM/SC 20WL3(1)(2)	**S20SCM20***

(1) Example of plating, for other plating options see **Page 199**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

Extraction tool #20



Description	Part number
Contacts #20 Ø 0.039" (1)	**RX20D44**

Souriau UTSX series

1210 - 12E10/12D10 (Shell size 12, 10x#20)

Contacts #20

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	**Contact type**	**AWG**	**inch²**	**mm²**	**Male**	**Female**	**inch**	**mm**	**inch**	**mm**
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	**RM24W3K**	**RC24W3K**	0.031"	0.80	0.062"	1.58
	Machined	22-20	0.012"-0.020"	0.32-0.52	**RM20W3K**	**RC20W3K**	0.045"	1.15	0.070"	1.80
	Machined	20-18	0.020"-0.031"	0.52-0.80	**RM18W3K**	**RC18W3K**	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note (1) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24W3TK6(1)**	**SC24W3TK6(1)**	–	–	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	**SM24W3S26(1)**	**SC24W3S25(1)**	–	–	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3TK6(1)**	**SC20W3TK6(1)**	–	–	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3S26(1)**	**SC20W3S25(1)**	–	–	0.047"-0.082"	1.20-2.10
PCB	Machined (2)	–	–	–	**RMW5016K**	**RCW5016K**	–	–	–	–

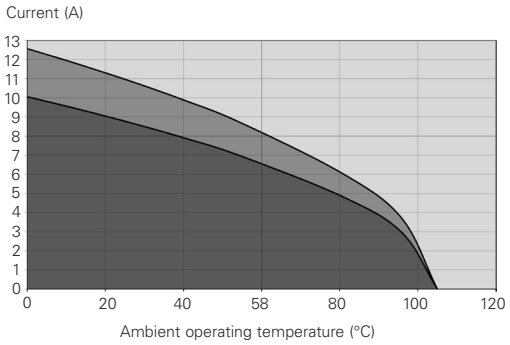
(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6
(2) for dimensions see **Pages 206**

				Wire stripping length	
Contact style	**Contact type**	**Plating**	**Cable acceptance (AWG)**	**inch**	**mm**
Handsolder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	**CSA**	**IEC**
UTSX 1210 5A 250V with AWG20 wire	4A 250V with AWG20 wire	6A 50V 1.5kV 3
UTSX 12E10/12D10 4.5A 250V with AWG20 wire	4.5A 250V with AWG20 wire	6A 50V 1.5kV 3

UTSX 1210 - 12E10/12D10 derating curves



Current use
Limited use
Not recommended use

Test conditions

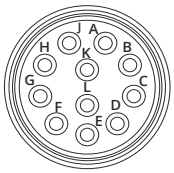
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 18E11 /18D11



11 contacts
10A/500V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 128**	Square flange receptacle	Without (Fig. 1)	**UTSX018E11P**	**UTSX018E11S**
	Plug	Without (Fig. 4)	**UTSX618E11P**	**UTSX618E11S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC18E11P**	**UTSX6JC18E11S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX718E11P**	**UTSX718E11S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX718E11P32**	**UTSX718E11S32**
PCB contacts loaded see **Page 128**	Square flange receptacle	Without (Fig. 3)	**UTSX018D11P**	**UTSX018D11S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX718D11P**	**UTSX718D11S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX718D11P32**	**UTSX718D11S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

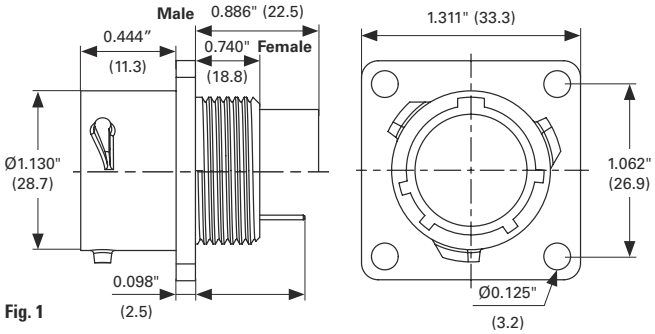


Fig. 1

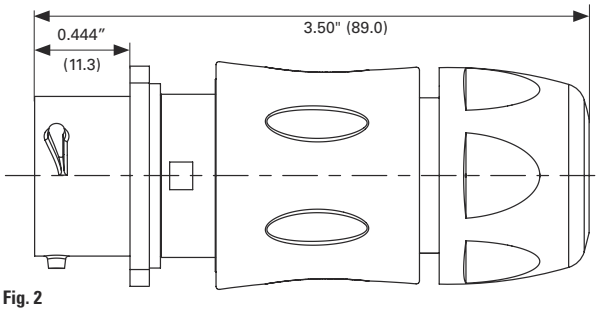


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Free hanging - UTSX1JC and UTSXGJC

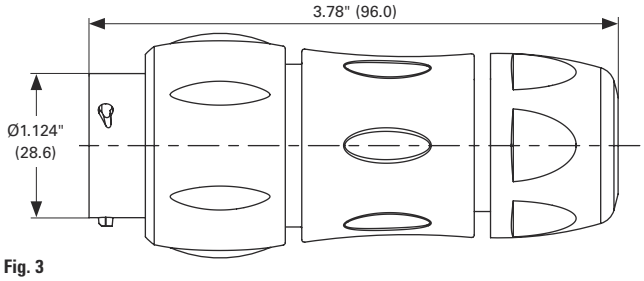


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Plug - UTSX6 and UTSX6JC

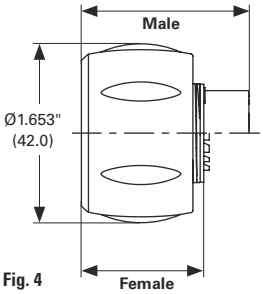


Fig. 4

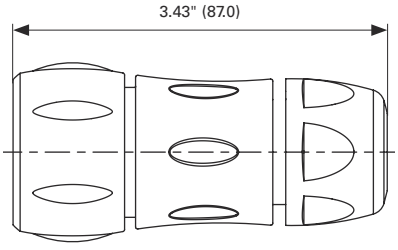


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Jam nut receptacle UTSX7

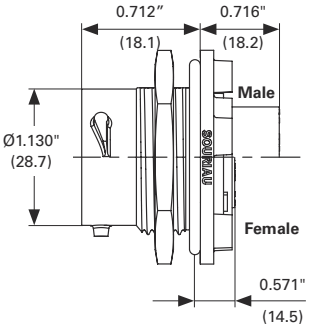


Fig. 6

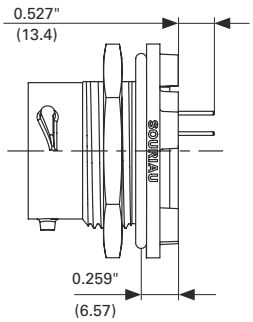


Fig. 7

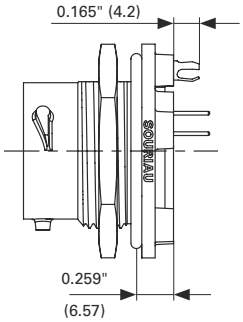
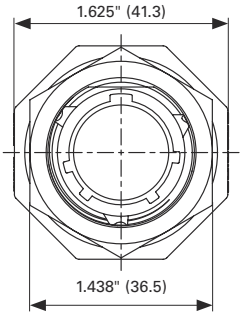
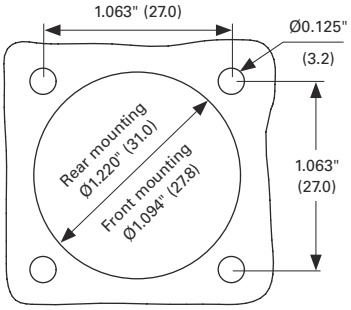


Fig. 8

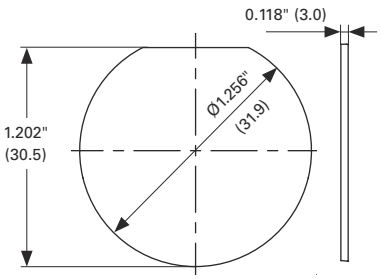


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS18DCG**
IP68 - Metal terminal	**UTS18DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS18DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX618DCG**

Plastic protective cap



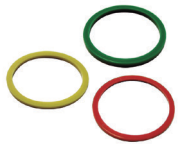
Part number receptacle cap	Part number plug cap
85005590A	**85005599**

Gasket



Part number
UTFD16B

Color coding rings



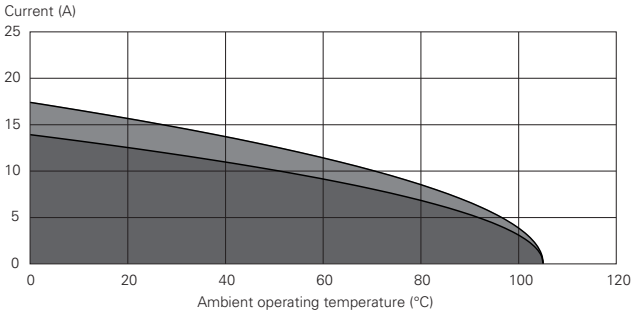
Description	Part number receptacles	Part number plugs
G for Green	**UTS718CCRG**	**UTS618CCRG**
Y for Yellow	**UTS718CCRY**	**UTS618CCRY**
R for Red	**UTS718CCRR**	**UTS618CCRR**

18E11/18D11 (Shell size 18, 11x#16)

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	10A 500V with AWG16 wire	13A 40V 2.5kV 3

UTSX 18E11/18D11 derating curves

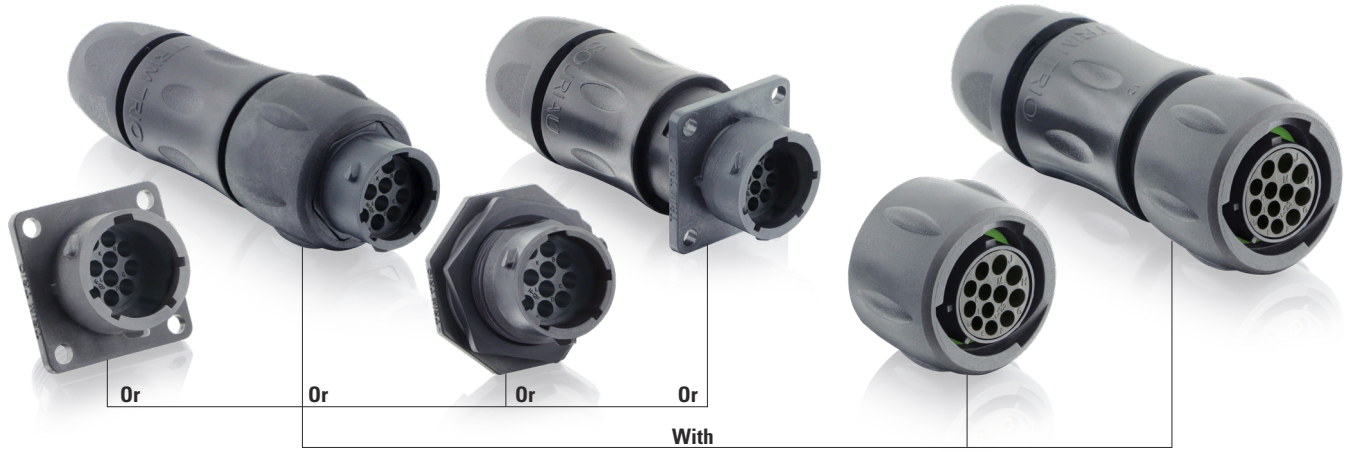


- Current use
- Limited use
- Not recommended use

Test conditions

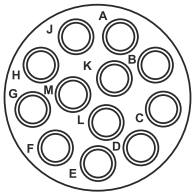
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 1412



12 contacts
16A/500V
per UL 1977 with
AWG14 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately See **Page 133**	Square flange receptacle	Without (Fig. 1)	**UTSX01412P**	**UTSX01412S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1412P**	**UTSX0JC1412S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1412P**	**UTSX1JC1412S**
	Free hanging receptacle	Cable gland and grommet (Fig. 3)	**UTSX1GJC1412P**	–
	Plug	Without (Fig. 4)	**UTSX61412P**	**UTSX61412S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1412P**	**UTSX6JC1412S**
	Plug	Cable gland and grommet (Fig. 5)	–	**UTSX6GJC1412S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71412P**	**UTSX71412S**
	Jam nut receptacle	Cable gland and grommet (Fig. 7)	**UTSX7GJC1412P**	–
PCB contacts supplied separately See **Page 133**	Square flange receptacle	Without (Fig. 1)	**UTSX01412P**	**UTSX01412S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71412P**	**UTSX71412S**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

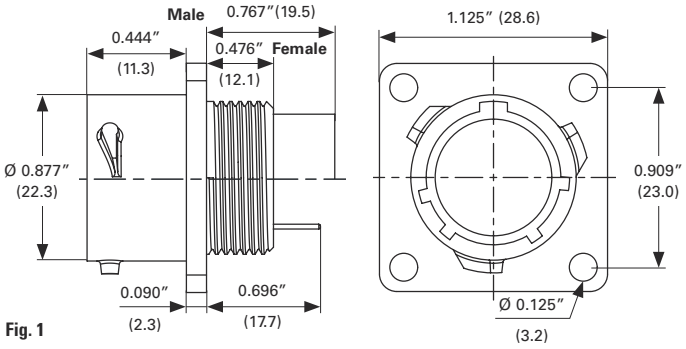


Fig. 1

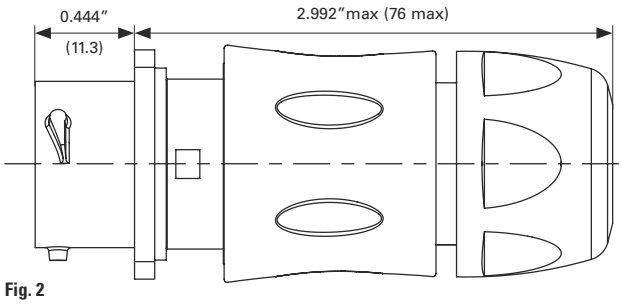


Fig. 2

Cable diameter acceptance: standard seal: from 0.275" to 0.551"(7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Free hanging - UTSX1JC and UTSC1GJC

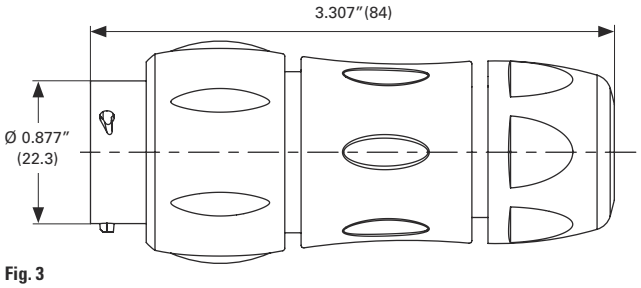


Fig. 3

Cable diameter acceptance: standard seal: from 0.275" to 0.551"(7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Plug - UTSX6, UTSX6JC and UTSX6GJC

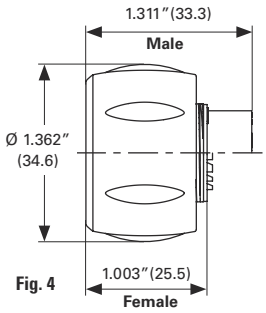


Fig. 4

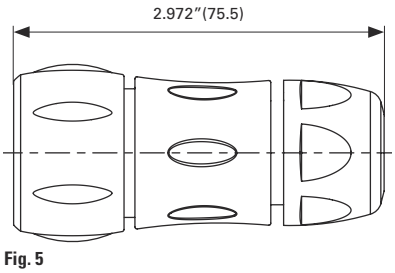


Fig. 5

Cable diameter acceptance: standard seal: from 0.275" to 0.551"(7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7 and UTSX7GJC

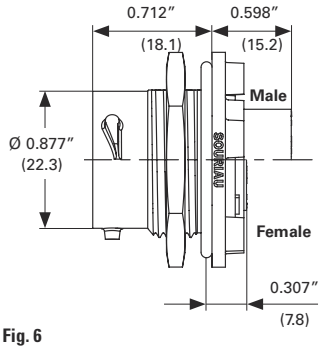


Fig. 6

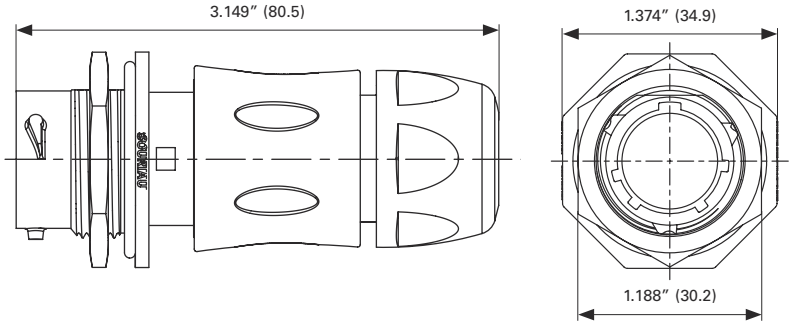
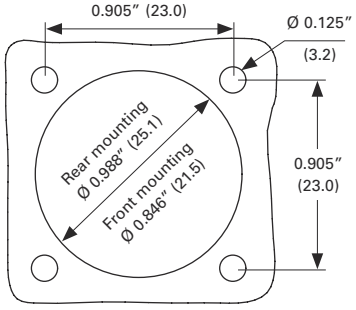


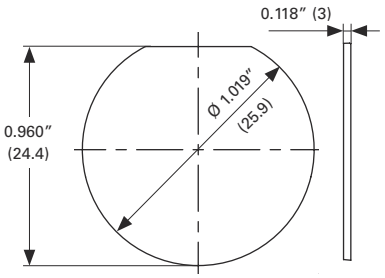
Fig. 7

Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



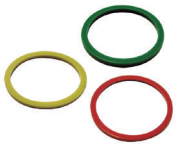
Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Tooling

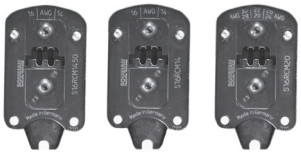
Tooling

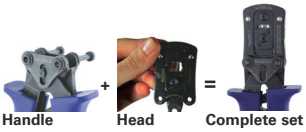




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle Head Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K**(1)	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 210**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Contacts #16

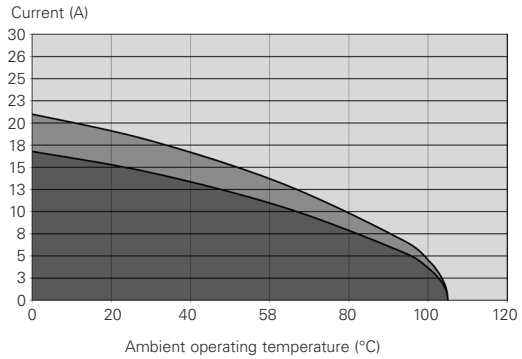
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 202**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 202**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 202**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 202**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
16A 500V with AWG14 wire	16A 500V with AWG14 wire	10A 63V 1.5kV 3

UTSX 1412 derating curves



Current use
Limited use
Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.

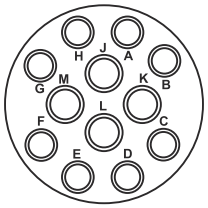
Souriau UTSX series

14E12/14D12 (Shell size 14, 8x#20, 4#16)



Connector part number

UTSX 14E12/14D12



12 contacts 5A
250V per UL1977
with AWG20 wire

12 contacts 10A
250V per UL1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 137**	Square flange receptacle	Without (Fig. 1)	**UTSX014E12P**	**UTSX014E12S**
	Plug	Without (Fig. 2)	**UTSX614E12P**	**UTSX614E12S**
	Plug	Cable gland (Fig. 3)	**UTSX6JC14E12P**	**UTSX6JC14E12S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX714E12P**	**UTSX714E12S**
PCB contacts loaded see **Page 137**	Square flange receptacle	Without (Fig. 2)	**UTSX014D12P**	**UTSX014D12S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX714D12P**	**UTSX714D12S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX714D12P32**	**UTSX714D12S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

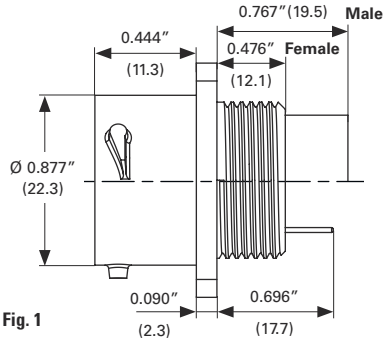
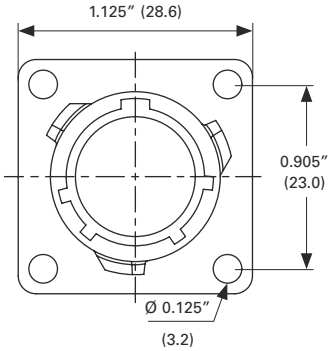


Fig. 1



Plug - UTSX6 and UTSX6JC

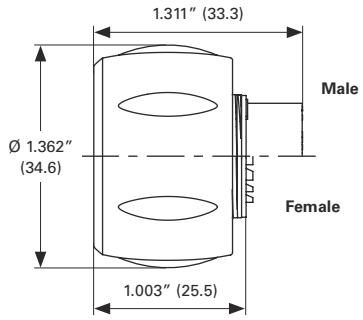


Fig. 2

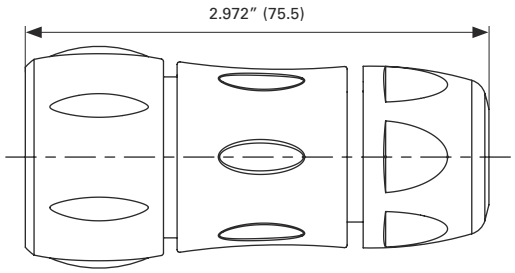


Fig. 3

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Jam nut receptacle UTSX7

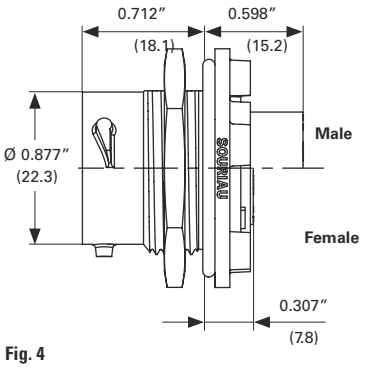


Fig. 4

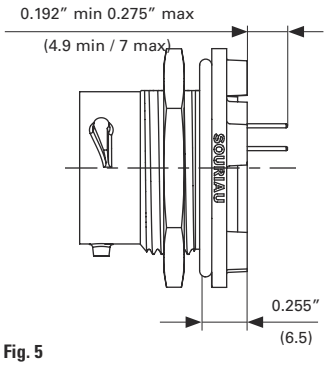


Fig. 5

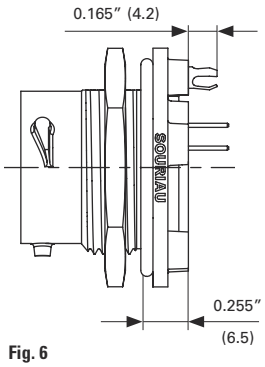
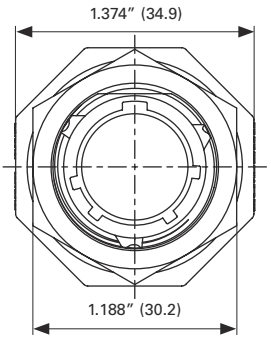
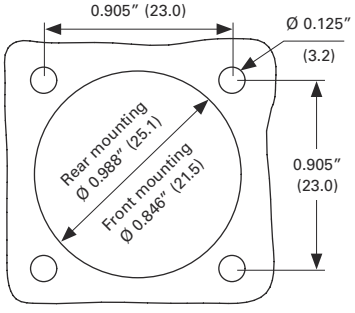


Fig. 6

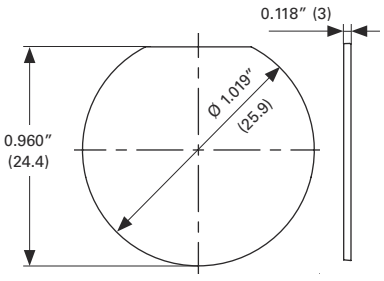


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

14E12/14D12 (Shell size 14, 8x#20, 4#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS14DCG**
IP68 - Metal terminal	**UTS14DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS14DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX614DCG**

Plastic protective cap



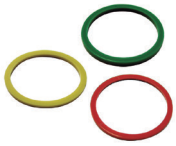
Part number receptacle cap	Part number plug cap
85005588A	**85005597**

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS714CCRG**	**UTS614CCRG**
Y for Yellow	**UTS714CCRY**	**UTS614CCRY**
R for Red	**UTS714CCRR**	**UTS614CCRR**

Contacts

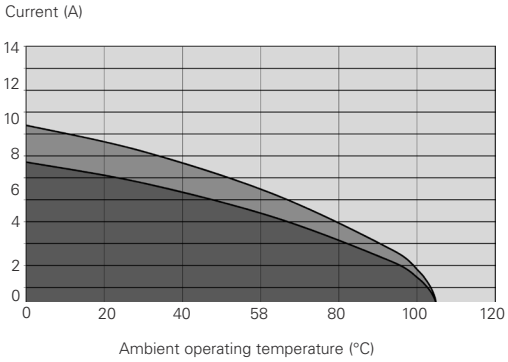
Contact size	Contact type	Plating	Cable acceptance (AWG)	Cable acceptance inch²	Cable acceptance mm²	Wire stripping length inch	Wire stripping length mm
#16	Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	18 - 14	0.032"-0.081"	0.823 - 2.08	0.196"	5
	PCB Machined (1)	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–
#20	Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 - 18	0.012"-0.029"	0.32 - 0.75	0.149"	3.8
	PCB Machined (1)	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–

(1) For dimensions see **Pages 205**

Electrical characteristics

UL	CSA	IEC
5A 250V with AWG20 10A 250V with AWG16	5A 250V with AWG20 10A 250V with AWG16	4A 50V 1.5kV 3

UTSX 14E12/14D12 derating curves



Current use
Limited use
Not recommended use

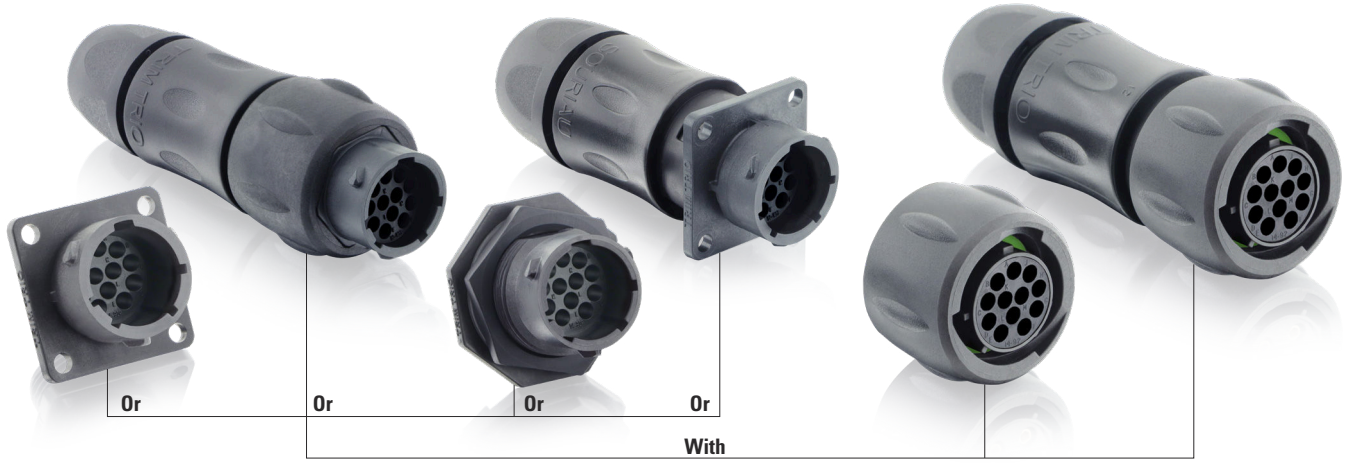
Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.

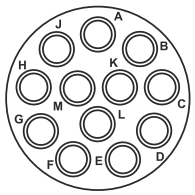
Souriau UTSX series

1492 (Shell size 14, 12x#16)



Connector part number

UTSX 1492



12 contacts
10/500V per
UL 1977 with
AWG16 wire

			Part number	
Contact type	**Connector type**	**Backshell**	**Male insert**	**Female insert**
Crimp contacts supplied separately see **Page 142**	Square flange receptacle	Without (Fig. 1)	**UTSX01492P**	**UTSX01492S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1492P**	**UTSX0JC1492S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1492P**	**UTSX1JC1492S**
	Plug	Without (Fig. 4)	**UTSX61492P**	**UTSX61492S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1492P**	**UTSX6JC1492S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71492P**	**UTSX71492S**
PCB contacts supplied separately see **Page 142**	Square flange receptacle	Without (Fig. 1)	**UTSX01492P**	**UTSX01492S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71492P**	**UTSX71492S**

For discrimination/keying methods see **Page 224**

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

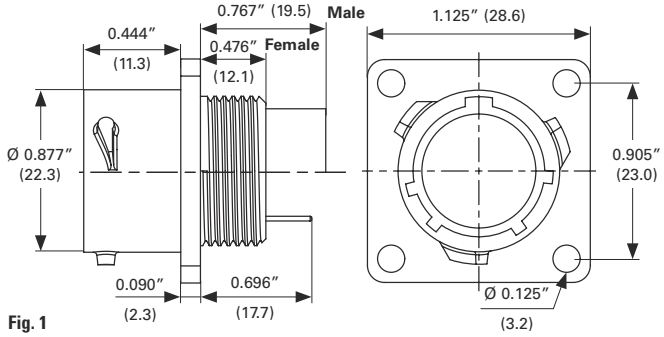


Fig. 1

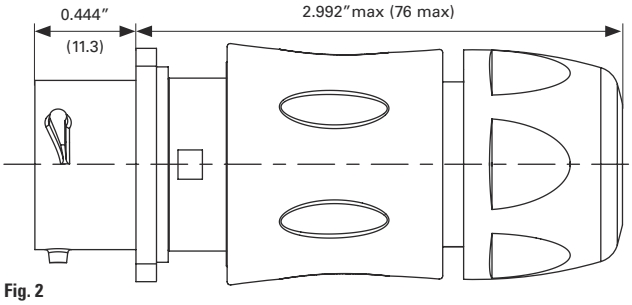


Fig. 2

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Free hanging - UTSX1JC

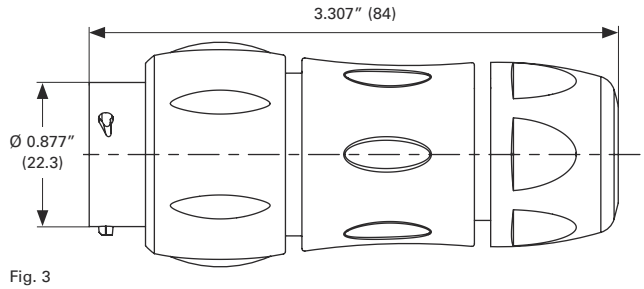


Fig. 3

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Plug - UTSX6 and UTSX6JC

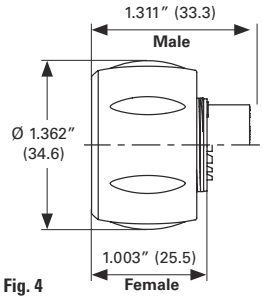


Fig. 4

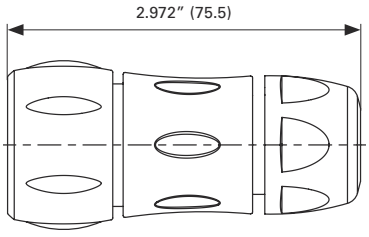


Fig. 5

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Jam nut receptacle UTSX7

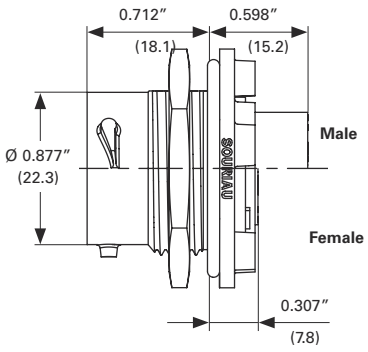


Fig. 6

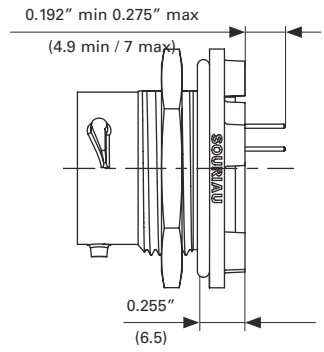
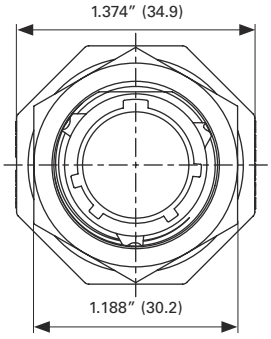
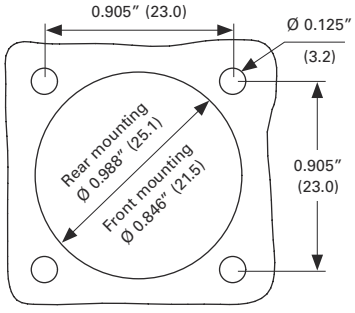


Fig. 7

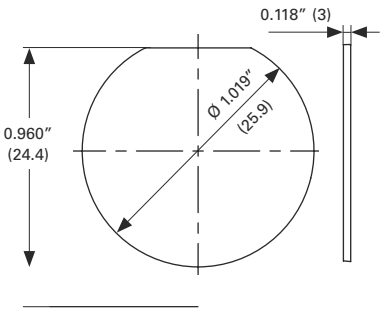


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

1492 (Shell size 14, 12x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS14DCG**
IP68 - Metal terminal	**UTS14DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS14DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX614DCG**

Plastic protective cap



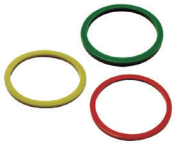
Part number receptacle cap	Part number plug cap
85005588A	**85005597**

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS714CCRG**	**UTS614CCRG**
Y for Yellow	**UTS714CCRY**	**UTS614CCRY**
R for Red	**UTS714CCRR**	**UTS614CCRR**

Tooling

Tooling

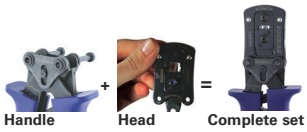




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle Head Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K**(1)	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 211**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Souriau UTSX series

1492 (Shell size 14, 12x#16)

Contacts #16

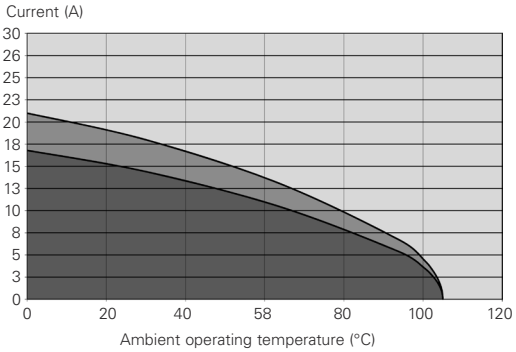
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	7A 500V with AWG16 wire	10A 63V 1.5kV 3

UTSX 1412 derating curves

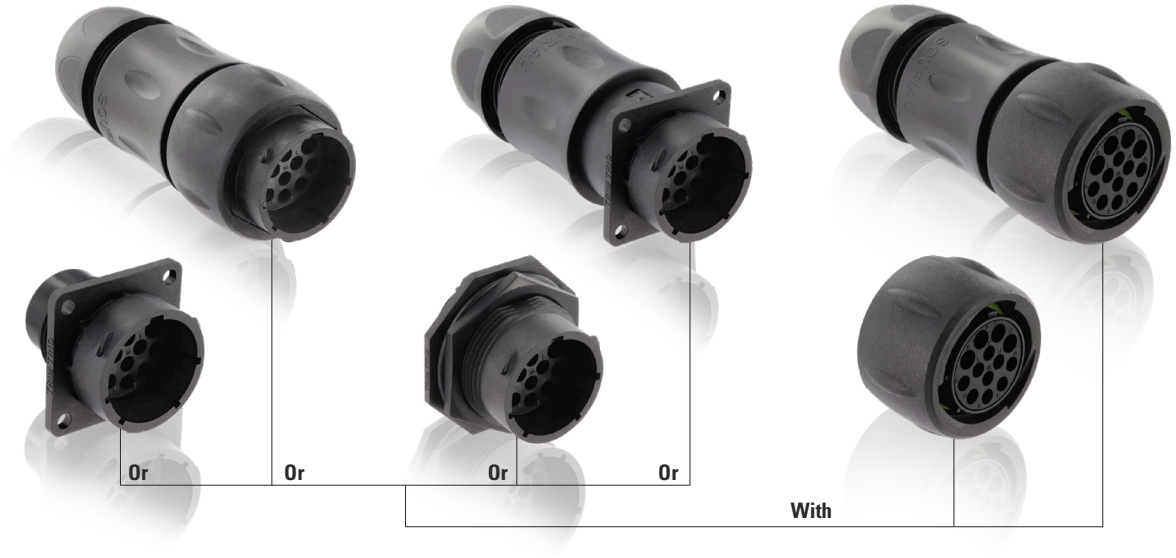


Current use
Limited use
Not recommended use

Test conditions

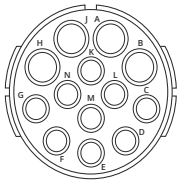
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 1613



13 contacts
23A/600V per UL 1977
with AWG12 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 147**	Square flange receptacle	Without (Fig. 1)	**UTSX01613P**	**UTSX01613S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1613P**	**UTSX0JC1613S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1613P**	**UTSX1JC1613S**
	Plug	Without (Fig. 4)	**UTSX61613P**	**UTSX61613S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1613P**	**UTSX6JC1613S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71613P**	**UTSX71613S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX71613P32**	**UTSX71613S32**
PCB contacts supplied separately see **Page 147**	Square flange receptacle	Without (Fig. 1)	**UTSX01613P**	**UTSX01613S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX71613P**	**UTSX71613S**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

1613 (Shell size 16, 4 x #12, 9x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

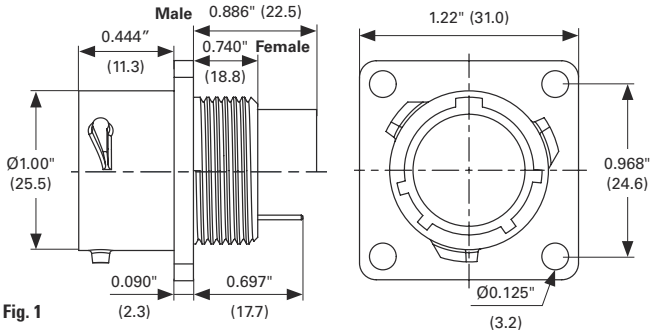


Fig. 1

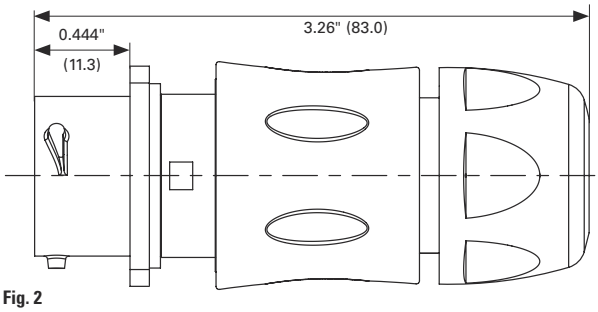


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

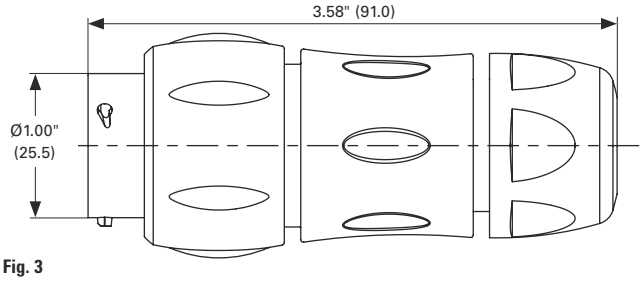


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

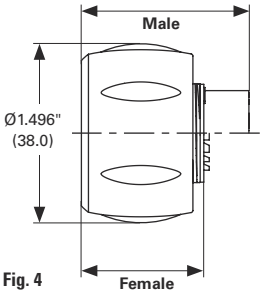


Fig. 4

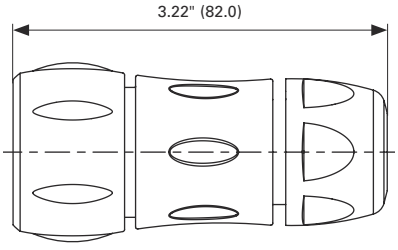


Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

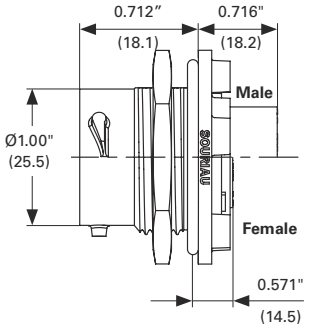


Fig. 6

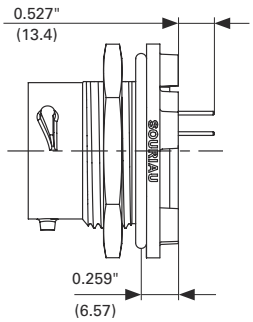


Fig. 7

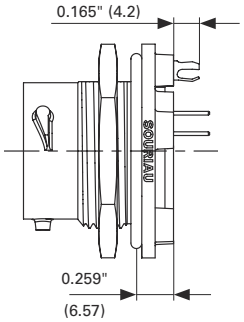
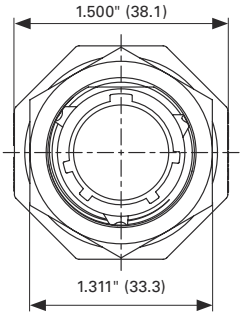
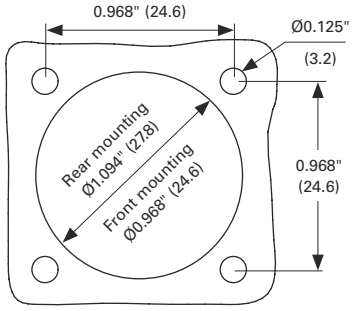


Fig. 8

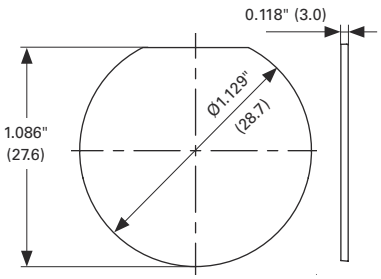


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS16DCG**
IP68 - Metal terminal	**UTS16DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS16DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX616DCG**

Plastic protective cap



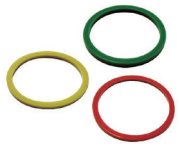
Part number receptacle cap	Part number plug cap
85005589A	**85005598**

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS716CCRG**	**UTS616CCRG**
Y for Yellow	**UTS716CCRY**	**UTS616CCRY**
R for Red	**UTS716CCRR**	**UTS616CCRR**

Souriau UTSX series

1613 (Shell size 16, 4 x #12, 9x#16)

Tooling

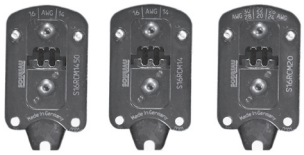
Tooling

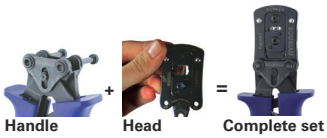




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle + Head = Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K(1)**	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 198**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 210**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

Contacts #12

Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	20	0.020"	0.52	**82911457NA**	**82911456A**	0.034"	0.87	0.192"	4.90
		20	0.020"	0.52	**82911459NA**	**82911458A**	0.044"	1.12	0.192"	4.90
		18	0.031"	0.80	**82911461NA**	**82911460A**	0.055"	1.42	0.192"	4.90
		16	0.059"	1.48	**82911463NA**	**82911462A**	0.067"	1.72	0.192"	4.90
		14	0.098"	2.48	**82911465NA**	**82911464A**	0.087"	2.20	0.192"	4.90
		12	0.157"	4.00	**82911467NA**	**82911466A**	0.111"	2.82	0.192"	4.90

Contacts #16

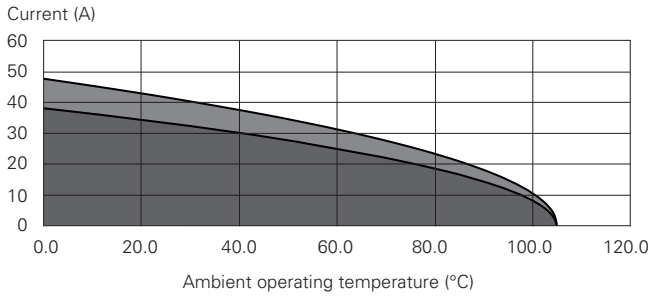
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
23A 600V with AWG12 wire	23A 600V with AWG12 wire	23A 160V 2.5kV 3

UTSX 1613 derating curves



Current use
Limited use
Not recommended use

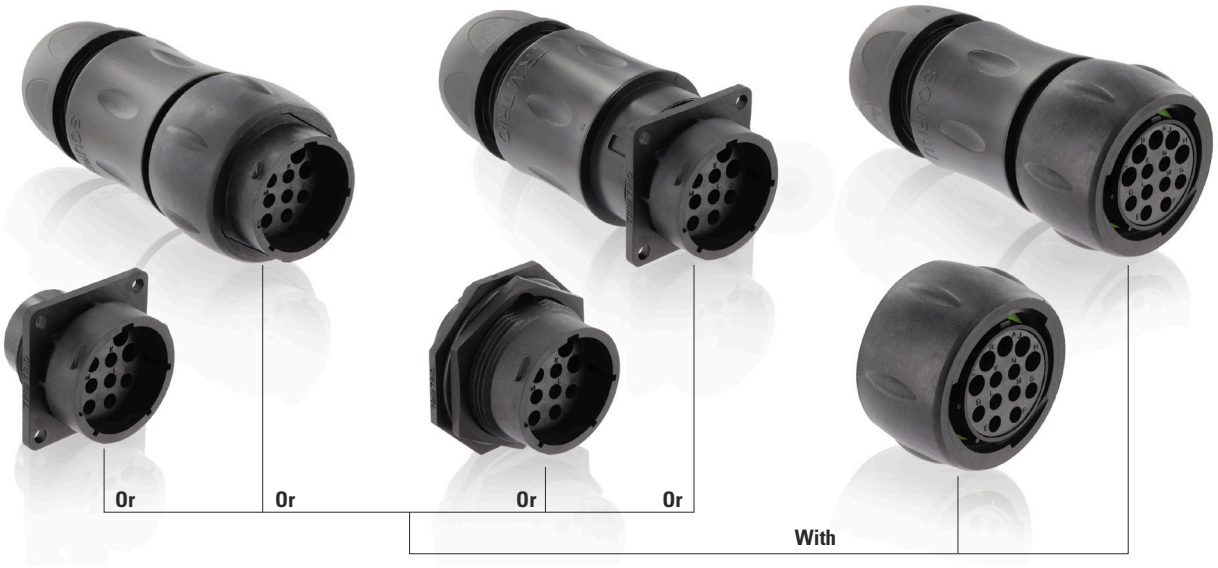
Test conditions

Contact used: machined contacts
Wires used: 12 AWG

Derating curves based on continuous current application.

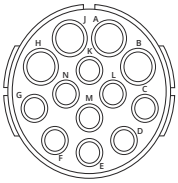
Souriau UTSX series

1813 (Shell size 18, 5x#12, 8x#16)



Connector part number

UTSX 1813



13 contacts
23A/600V per UL 1977
with AWG12 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 152**	Square flange receptacle	Without (Fig. 1)	**UTSX01813P**	**UTSX01813S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1813P**	**UTSX0JC1813S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1813P**	**UTSX1JC1813S**
	Plug	Without (Fig. 4)	**UTSX61813P**	**UTSX61813S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1813P**	**UTSX6JC1813S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71813P**	**UTSX71813S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX71813P32**	**UTSX71813S32**
PCB contacts supplied separately see **Page 152**	Square flange receptacle	Without (Fig. 1)	**UTSX01813P**	**UTSX01813S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX71813P**	**UTSX71813S**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

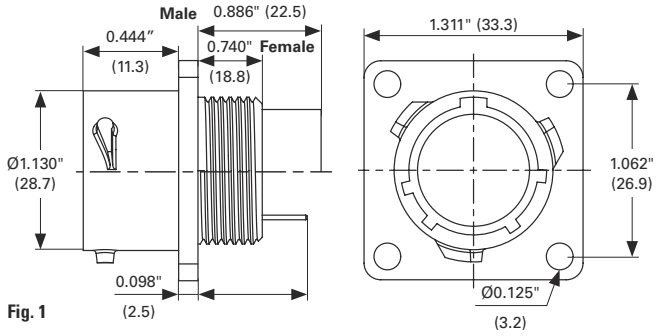


Fig. 1

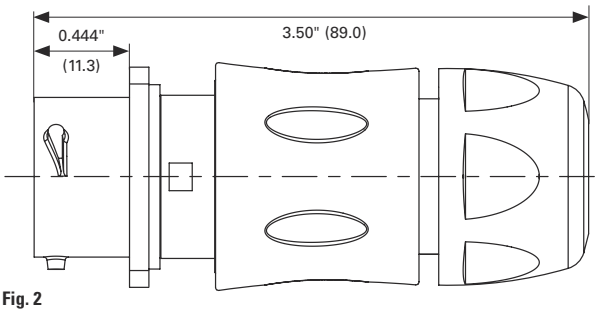


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Free hanging - UTSX1JC and UTSXGJC

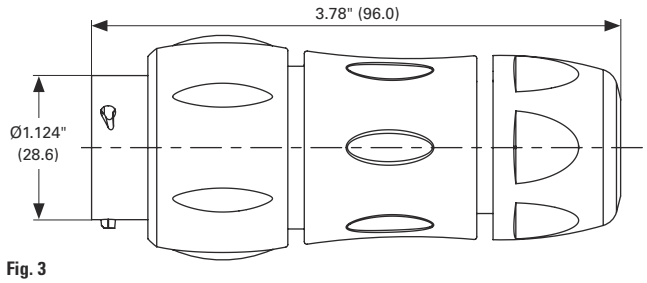


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Plug - UTSX6 and UTSX6JC

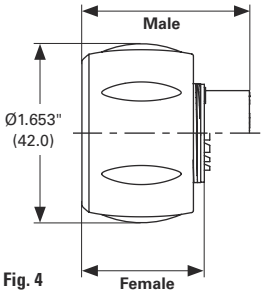


Fig. 4

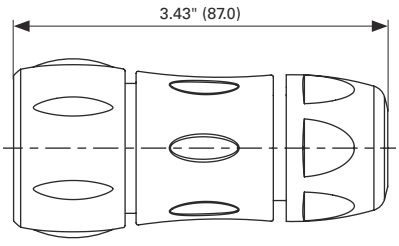


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Jam nut receptacle UTSX7

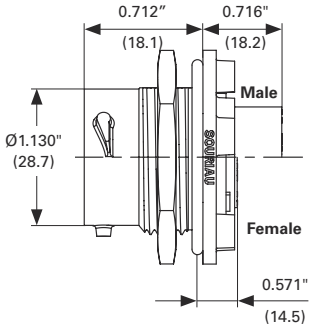


Fig. 6

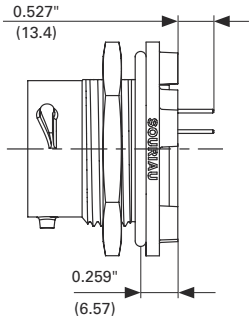


Fig. 7

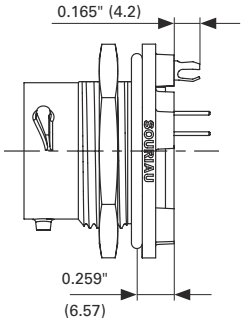
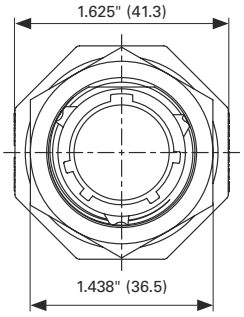
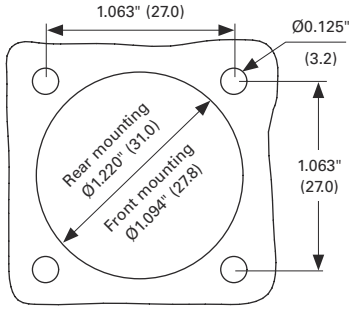


Fig. 8

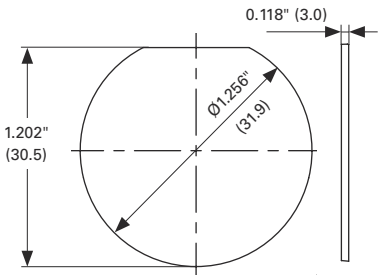


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

1813 (Shell size 18, 5x#12, 8x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS18DCG**
IP68 - Metal terminal	**UTS18DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS18DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX618DCG**

Plastic protective cap



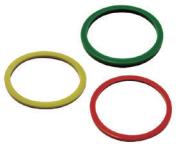
Part number receptacle cap	Part number plug cap
85005590A	**85005599**

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS718CCRG**	**UTS618CCRG**
Y for Yellow	**UTS718CCRY**	**UTS618CCRY**
R for Red	**UTS718CCRR**	**UTS618CCRR**

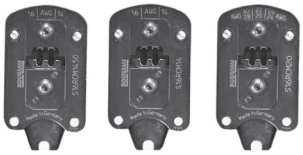
Tooling

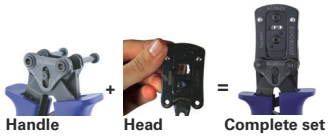
Tooling




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle Head Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K(1)**	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 198**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 210**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

Souriau UTSX series

1813 (Shell size 18, 5x#12, 8x#16)

Contacts #12

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	**Contact type**	**AWG**	**inch²**	**mm²**	**Male**	**Female**	**inch**	**mm**	**inch**	**mm**
Crimp contacts	Machined	20	0.020″	0.52	**82911457NA**	**82911456A**	0.034″	0.87	0.192″	4.90
		20	0.020″	0.52	**82911459NA**	**82911458A**	0.044″	1.12	0.192″	4.90
		18	0.031″	0.80	**82911461NA**	**82911460A**	0.055″	1.42	0.192″	4.90
		16	0.059″	1.48	**82911463NA**	**82911462A**	0.067″	1.72	0.192″	4.90
		14	0.098″	2.48	**82911465NA**	**82911464A**	0.087″	2.20	0.192″	4.90
		12	0.157″	4.00	**82911467NA**	**82911466A**	0.111″	2.82	0.192″	4.90

Contacts #16

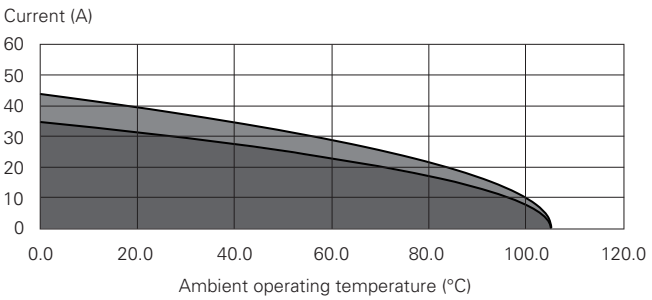
		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	**Contact type**	**AWG**	**inch²**	**mm²**	**Male**	**Female**	**inch**	**mm**	**inch**	**mm**
Crimp contacts	Machined	30-28	0.002″-0.003″	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021″	0.55	0.039″	1.00
		26-24	0.005″-0.009″	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031″	0.80	0.062″	1.58
		22-20	0.012″-0.020″	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045″	1.15	0.070″	1.80
		22-20	0.012″-0.020″	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045″	1.15	0.086″	2.20
		20-16	0.020″-0.059″	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070″	1.80	0.125″	3.20
		16-14	0.059″-0.098″	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090″	2.30	0.125″	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005″-0.009″	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035″-0.062″	0.90-1.58
		22-20	0.012″-0.020″	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047″-0.082″	1.20-2.10
		18-16	0.031″-0.059″	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125″	3.20
		18-16	0.031″-0.059″	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118″	3.00
		14	0.098″	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125″	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connector	14-18	0.098″-0.031″	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
23A 600V with AWG12	23A 600V with AWG12	23A 160V 2.5kV 3

UTSX 1813 derating curves



Current use
Limited use
Not recommended use

Test conditions

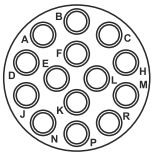
Contact used: machined contacts
Wires used: 12 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 12E14/12D14



14 contacts
4.5A/250V per
UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 156**	Square flange receptacle	Without (Fig. 1)	**UTSX012E14P**	**UTSX012E14S**
	Plug	Without (Fig. 2)	**UTSX612E14P**	**UTSX612E14S**
	Plug	Cable gland (Fig. 3)	**UTSX6JC12E14P**	**UTSX6JC12E14S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX712E14P**	**UTSX712E14S**
PCB contacts loaded see **Page 156**	Square flange receptacle	Without (Fig. 1)	**UTSX012D14P**	**UTSX012D14S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX712D14P**	**UTSX712D14S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX712D14P32**	**UTSX712D14S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

12E14/12D14 (Shell size 12, 14x20)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

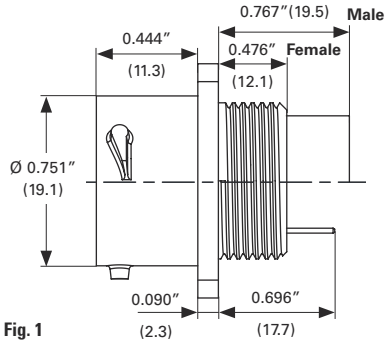
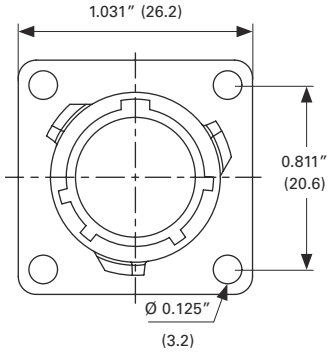


Fig. 1



Plug - UTSX6 and UTSX6JC

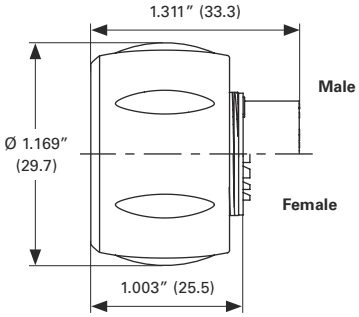


Fig. 2

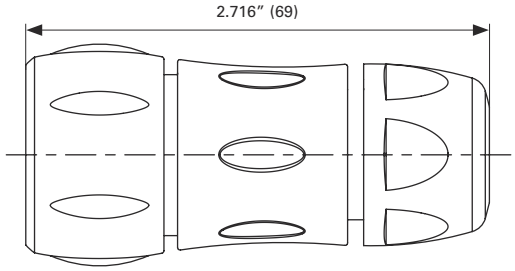


Fig. 3

Cable diameter acceptance: standard seal: from 0.098″ to 0.472″ (5 to 12), reduced seal: from 0.118″ to 0.354″ (3 to 9)

Jam nut receptacle UTSX7

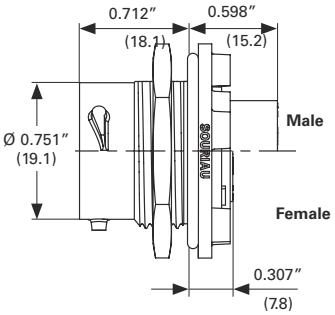


Fig. 4

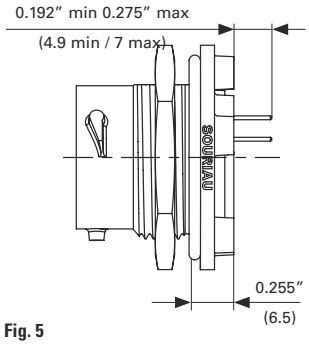


Fig. 5

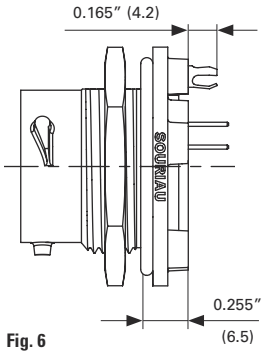
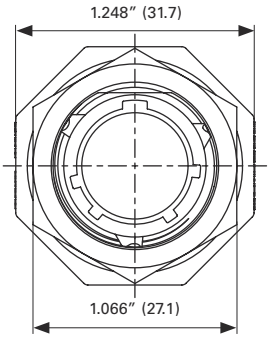
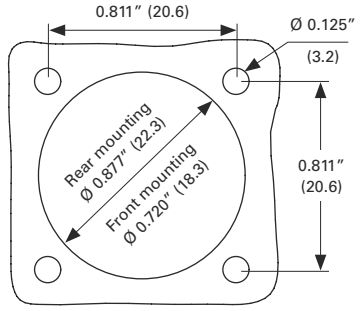


Fig. 6

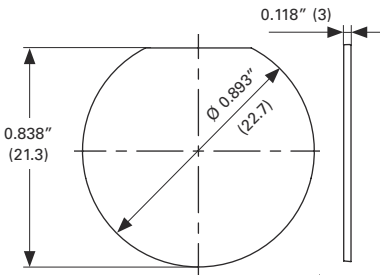


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS12DCG**
IP68 - Metal terminal	**UTS12DCGR**

Plug sealing cap



Description	Part number
IP68	**UTX612DCG**

Plastic protective cap



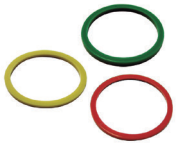
Part number receptacle cap	Part number plug cap
85005587A	**85005596**

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS712CCRG**	**UTS612CCRG**
Y for Yellow	**UTS712CCRY**	**UTS612CCRY**
R for Red	**UTS712CCRR**	**UTS612CCRR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS12DCGE**

Souriau UTSX series

12E14/12D14 (Shell size 12, 14x20)

Contacts #20

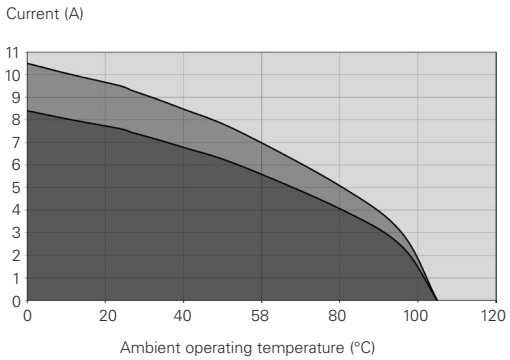
Contact type	Plating	Cable acceptance (AWG)	Cable acceptance inch²	Cable acceptance mm²	Wire stripping length inch	Wire stripping length mm
Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20-18	0.020"-0.031"	0.32-0.80	0.149"	3.8
PCB Machined (1)	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–

(1) For dimensions see **Pages 206**

Electrical characteristics

UL	CSA	IEC
4.5A 250V with AWG20 wire	4.5A 250V with AWG20 wire	5A 32V 1.5kV 3

UTSX 12E4/12D4 derating curves



Current use

Limited use

Not recommended use

Test conditions

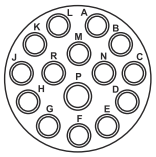
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX **14E15/14D15**



15 contacts
12A 600V per UL1977
with AWG16 wire

5A 250V per UL1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 160**	Square flange receptacle	Without (Fig. 1)	**UTSX014E15P**	**UTSX014E15S**
	Plug	Without (Fig. 2)	**UTSX614E15P**	**UTSX614E15S**
	Plug	Cable gland (Fig. 3)	**UTSX6JC14E15P**	**UTSX6JC14E15S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX714E15P**	**UTSX714E15S**
PCB contacts loaded see **Page 160**	Square flange receptacle	Without (Fig. 2)	**UTSX014D15P**	**UTSX014D15S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX714D15P**	**UTSX714D15S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX714D15P32**	**UTSX714D15S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

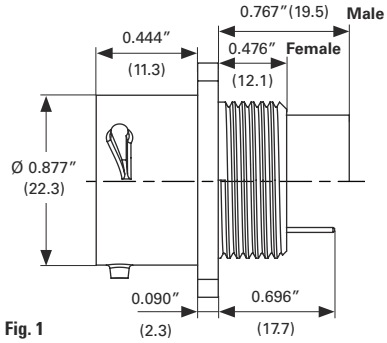
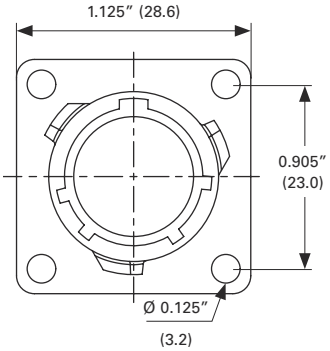


Fig. 1



Plug - UTSX6 and UTSX6JC

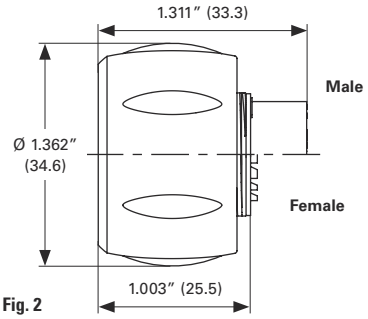


Fig. 2

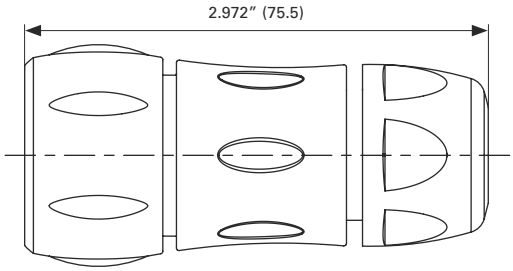


Fig. 3

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Jam nut receptacle UTSX7

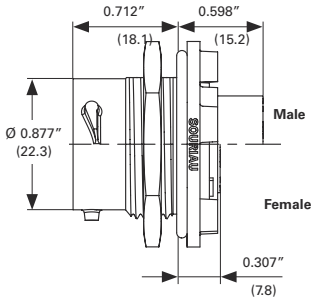


Fig. 4

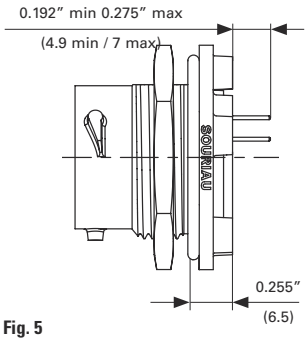


Fig. 5

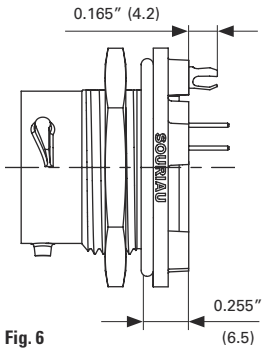
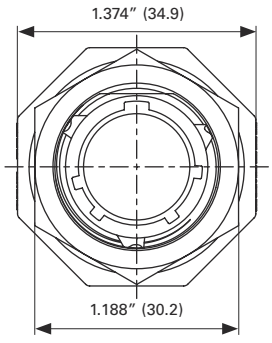
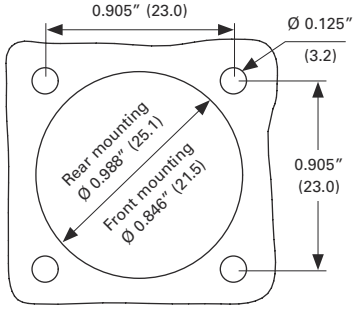


Fig. 6

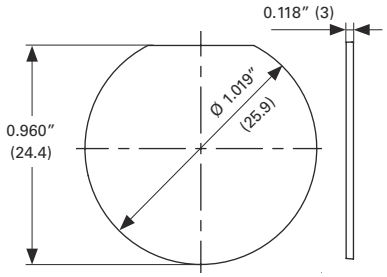


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS14DCG**
IP68 - Metal terminal	**UTS14DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS14DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX614DCG**

Plastic protective cap



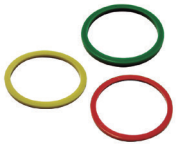
Part number receptacle cap	Part number plug cap
85005588A	**85005597**

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS714CCRG**	**UTS614CCRG**
Y for Yellow	**UTS714CCRY**	**UTS614CCRY**
R for Red	**UTS714CCRR**	**UTS614CCRR**

Souriau UTSX series

14E15/14D15 (Shell size 14, 14x#20, 1#16)

Contacts

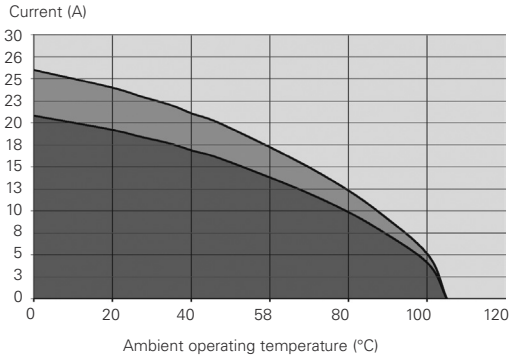
Contact size	Contact type	Plating	Cable acceptance (AWG)	Cable acceptance inch²	Cable acceptance mm²	Wire stripping length inch	Wire stripping length mm
#16	Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	18 - 14	0.032"-0.081"	0.823 - 2.08	0.196"	5
	PCB Machined (1)	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–
#20	Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 - 18	0.012"-0.029"	0.32 - 0.75	0.149"	3.8
	PCB Machined (1)	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–

(1) For dimensions see **Pages 206**

Electrical characteristics

UL	CSA	IEC
12A 600V with AWG16 5A 250V with AWG20	12A 600v with AWG16 5A 250V with AWG20	4A 50V 1.5kV 3

UTSX 14E15/14D15 derating curves



Current use
Limited use
Not recommended use

Test conditions

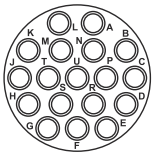
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 14E18/14D18



18 contacts
4A/250V per
UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 164**	Square flange receptacle	Without (Fig. 1)	**UTSX014E18P**	**UTSX014E18S**
	Plug	Without (Fig. 2)	**UTSX614E18P**	**UTSX614E18S**
	Plug	Cable gland (Fig. 3)	**UTSX6JC14E18P**	**UTSX6JC14E18S**
	Jam nut receptacle	Without (Fig. 4)	**UTSX714E18P**	**UTSX714E18S**
PCB contacts loaded see **Page 164**	Square flange receptacle	Without (Fig. 2)	**UTSX014D18P**	**UTSX014D18S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	**UTSX714D18P**	**UTSX714D18S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	**UTSX714D18P32**	**UTSX714D18S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

14E18/14D18 (Shell size 14, 18x#20)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

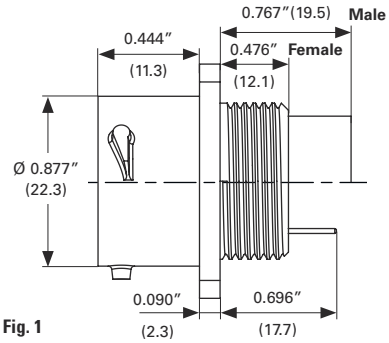
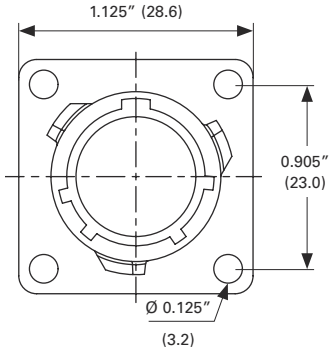


Fig. 1



Plug - UTSX6 and UTSX6JC

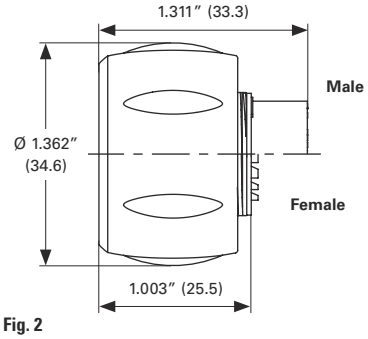


Fig. 2

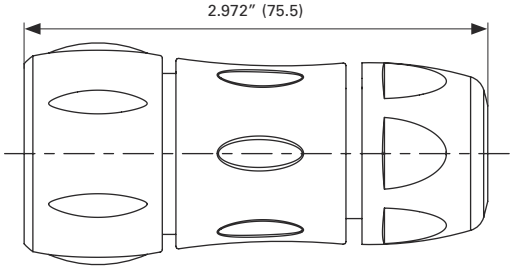


Fig. 3

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Jam nut receptacle UTSX7

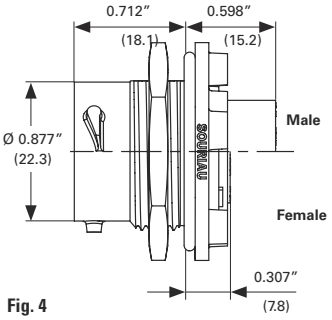


Fig. 4

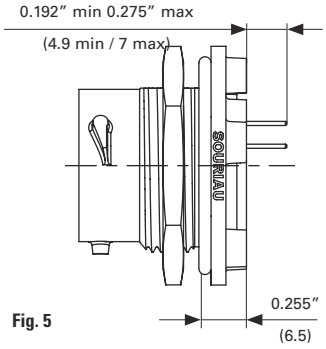


Fig. 5

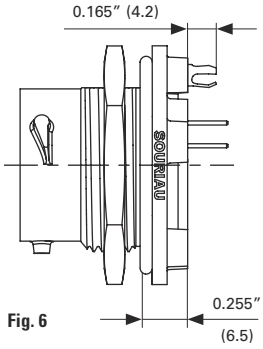
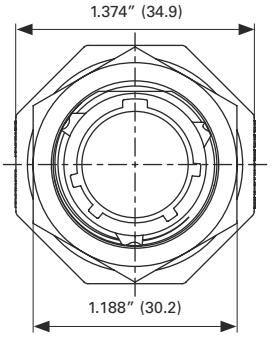
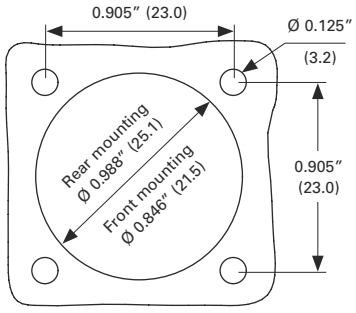


Fig. 6

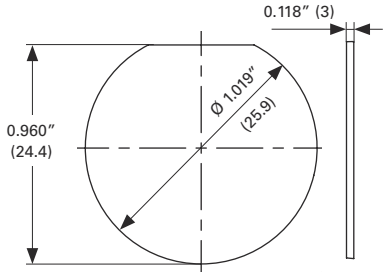


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



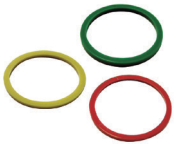
Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Souriau UTSX series

14E18/14D18 (Shell size 14, 18x#20)

Contacts #20

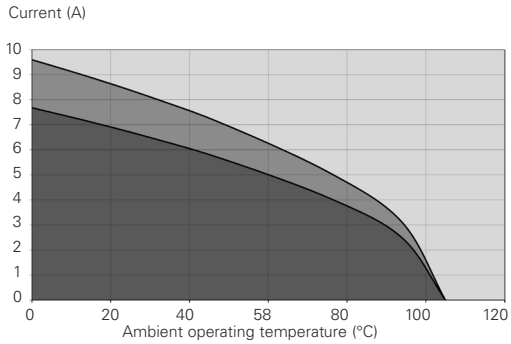
Contact type	Plating	Cable acceptance (AWG)	Cable acceptance inch²	Cable acceptance mm²	Wire stripping length inch	Wire stripping length mm
Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20-18	0.020"-0.031"	0.32-0.80	0.149"	3.8
PCB Machined[1]	Min 0.4µ gold over 0.8µ Ni	–	–	–	–	–

(1) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
4A 250V with AWG20 wire	4A 250V with AWG20 wire	5A 50V 1.5kV 3

UTSX 14E18/14D18 derating curves



Current use

Limited use

Not recommended use

Test conditions

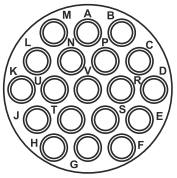
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX



1419

19 contacts + ground
4.5A/250V per UL 1977
with AWG20 wire

14E19/14D19

19 contacts + ground
4A/250V per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 169**	Square flange receptacle	Without (Fig. 1)	**UTSX01419P**	**UTSX01419S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1419P**	**UTSX0JC1419S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1419P**	**UTSX1JC1419S**
	Plug	Without (Fig. 4)	**UTSX61419P**	**UTSX61419S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1419P**	**UTSX6JC1419S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71419P**	**UTSX71419S**
PCB contacts supplied separately see **Page 169**	Square flange receptacle	Without (Fig. 1)	**UTSX01419P**	**UTSX01419S**
Handsolder electrical contacts loaded see **Page 169**	Square flange receptacle	Without (Fig. 1)	**UTSX014E19P**	**UTSX014E19S**
	Plug	Without (Fig. 4)	**UTSX614E19P**	**UTSX614E19S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC14E19P**	**UTSX6JC14E19S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX714E19P**	**UTSX714E19S**
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	**UTSX014D19P**	**UTSX014D19S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX714D19P**	**UTSX714D19S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX714D19P32**	**UTSX714D19S32**

Sealed unmated

Overmolded cable assembly part numbers
Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

1419 - 14E19/14D19 (Shell size 14, 19x#20)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

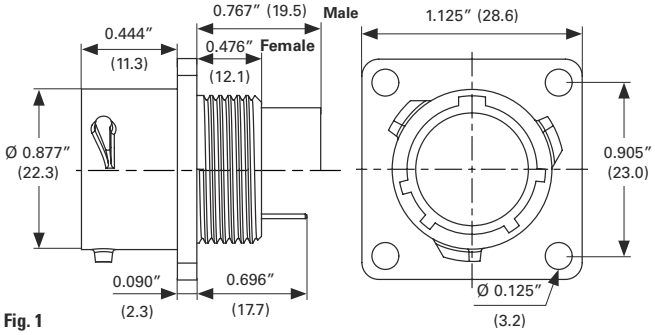


Fig. 1

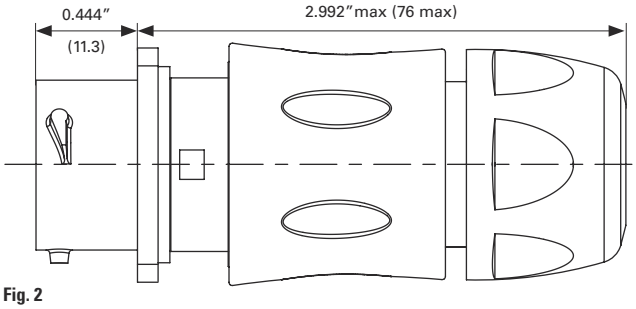


Fig. 2

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Free hanging - UTSX1JC

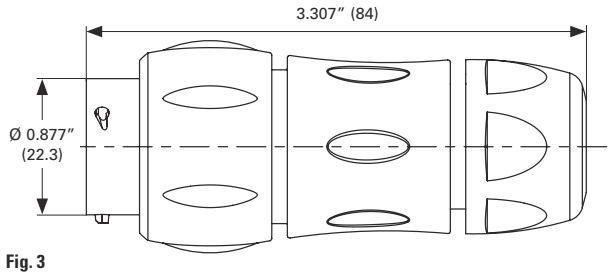


Fig. 3

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Plug - UTSX6 and UTSX6JC

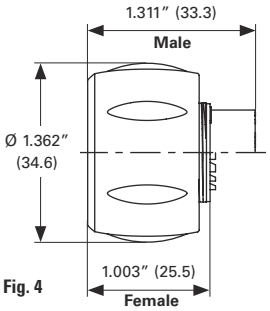


Fig. 4

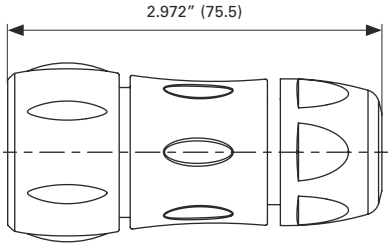


Fig. 5

Cable diameter acceptance: standard seal: from 0.275″ to 0.551″ (7 to 14), reduced seal: from 0.196″ to 0.472″ (5 to 12)

Jam nut receptacle UTSX7

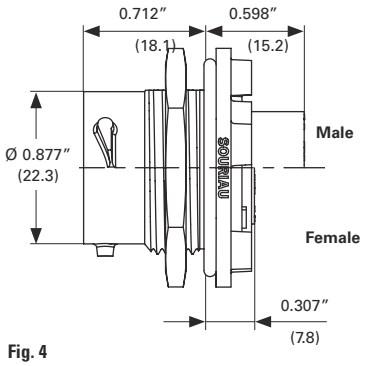


Fig. 4

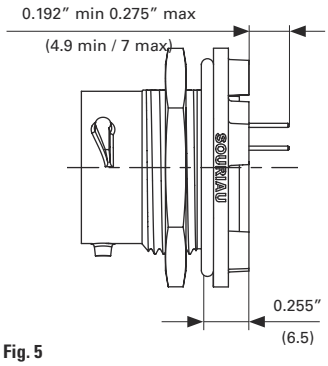


Fig. 5

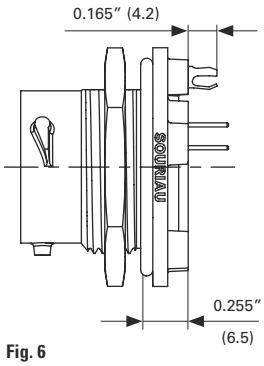
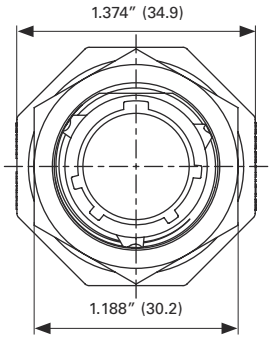
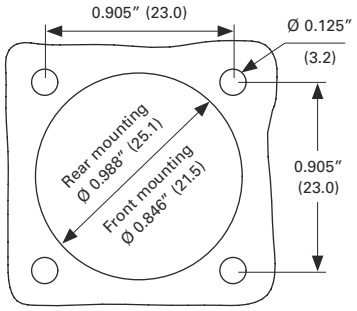


Fig. 6

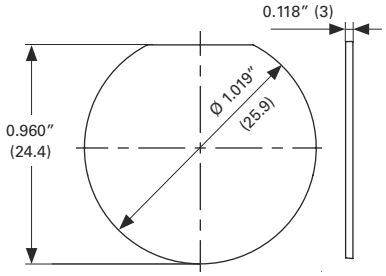


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS14DCG**
IP68 - Metal terminal	**UTS14DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS14DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX614DCG**

Plastic protective cap



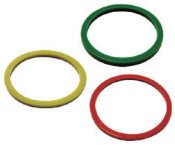
Part number receptacle cap	Part number plug cap
85005588A	**85005597**

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS714CCRG**	**UTS614CCRG**
Y for Yellow	**UTS714CCRY**	**UTS614CCRY**
R for Red	**UTS714CCRR**	**UTS614CCRR**

Souriau UTSX series

1419 - 14E19/14D19 (Shell size 14, 19x#20)

Tooling

#20 stamped or machined contacts

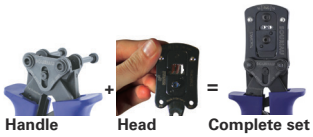




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1)	**RM/RC 24W3K(1)**	**S20RCM***
	RM/RC 20W3K(1)	**S20RCM***
	RM/RC 18W3K(1)	**S20RCM***
	SM/SC 24WL3(1)(2)	**S20SCM20***
	SM/SC 20WL3(1)(2)	**S20SCM20***

(1) Example of plating, for other plating options see **Page 198**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

Extraction tool #20



Description	Part number
Contacts #20 Ø 0.039" (1)	**RX20D44**

Dimensions in inches (millimeters)

Contacts #20

Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	**RM24W3K**	**RC24W3K**	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20W3K**	**RC20W3K**	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	**RM18W3K**	**RC18W3K**	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note (1) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24W3TK6(1)**	**SC24W3TK6(1)**	–	–	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	**SM24W3S26(1**	**SC24W3S25(1)**	–	–	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3TK6(1)**	**SC20W3TK6(1)**	–	–	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3S26(1)**	**SC20W3S25(1)**	–	–	0.047"-0.082"	1.20-2.10
PCB	Machined (2)	–	–	–	**RMW5016K**	**RCW5016K**	–	–	–	–

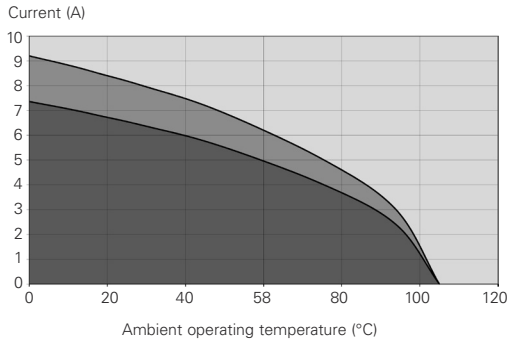
(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6
(2) for dimensions see **Page 206**

Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length inch	Wire stripping length mm
Handsolder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	CSA	IEC
UTSX 1419 4.5A 250V with AWG20 wire	3A 250V with AWG20 wire	5A 32V 1.5kV 3
UTSX 14E19/14D19 4A 250V with AWG20 wire	4A 250V with AWG20 wire	5A 32V 1.5kV 3

UTSX 1419 - 14E19/14D19 derating curves



Current use
Limited use
Not recommended use

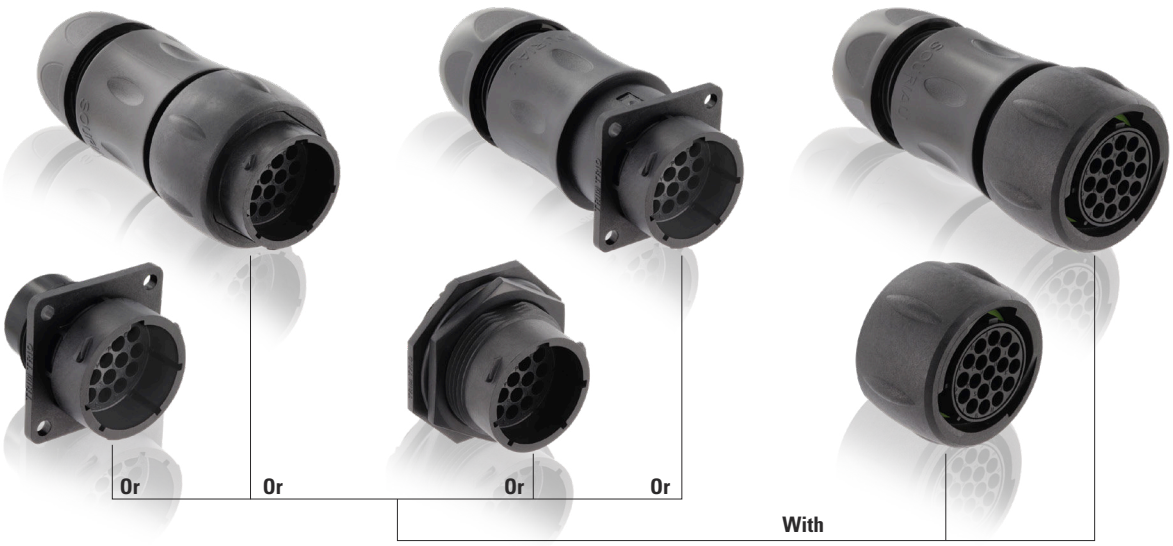
Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.

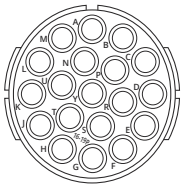
Souriau UTSX series

1619 (Shell size 16, 19x#16)



Connector part number

UTSX 1619



19 contacts
9A 250V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 174**	Square flange receptacle	Without (Fig. 1)	**UTSX01619P**	**UTSX01619S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1619P**	**UTSX0JC1619S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1619P**	**UTSX1JC1619S**
	Plug	Without (Fig. 4)	**UTSX61619P**	**UTSX61619S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1619P**	**UTSX6JC1619S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71619P**	**UTSX71619S**
PCB contacts supplied separately see **Page 174**	Square flange receptacle	Without (Fig. 1)	**UTSX01619P**	**UTSX01619S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX71619P**	**UTSX71619S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX71619P32**	**UTSX71619S32**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

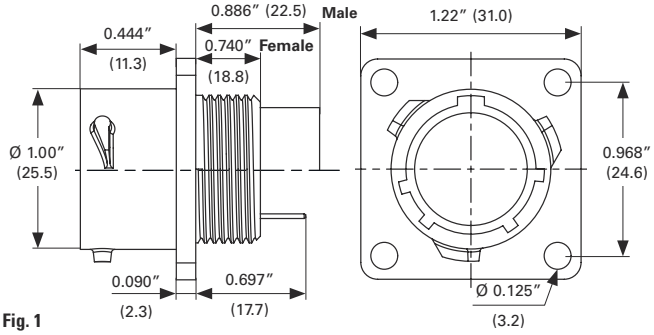


Fig. 1

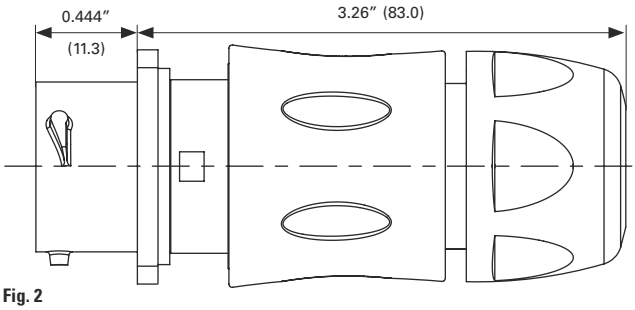


Fig. 2

Cable diameter acceptance: standard seal: from 0.472″ to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Free hanging - UTSX1JC and UTSXGJC

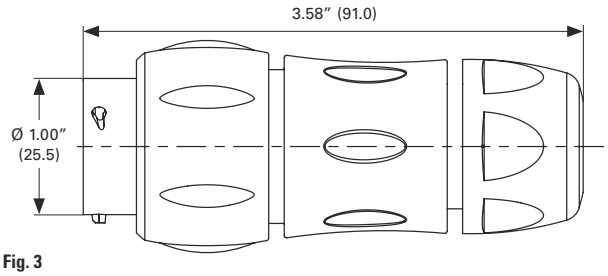


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Plug - UTSX6 and UTSX6JC

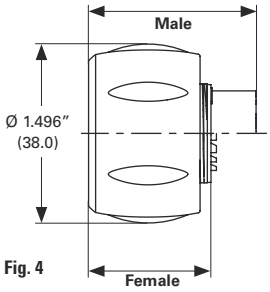


Fig. 4

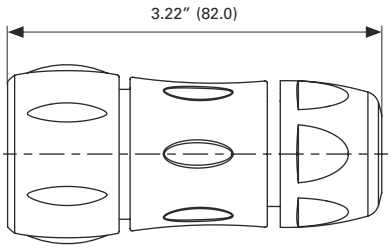


Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Jam nut receptacle UTSX7

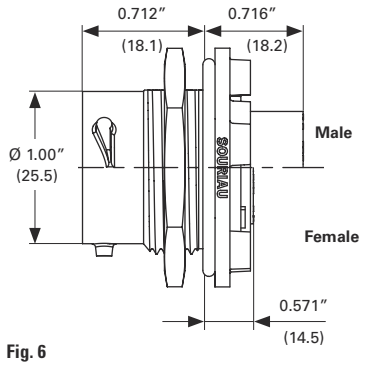


Fig. 6

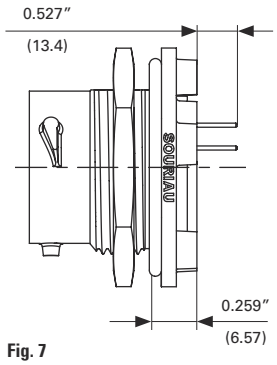


Fig. 7

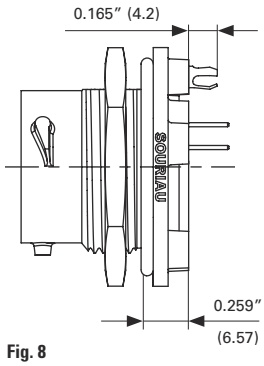
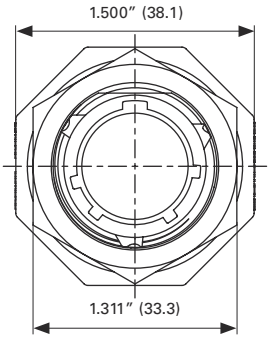
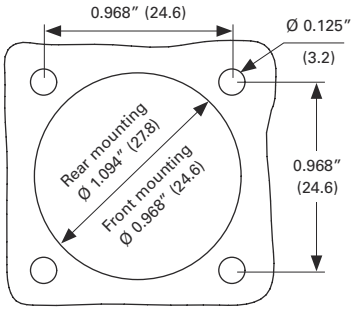


Fig. 8

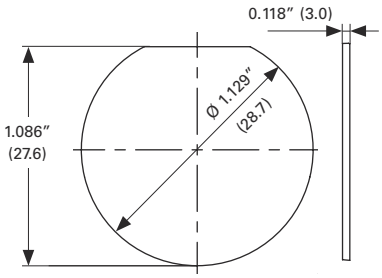


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

1619 (Shell size 16, 19x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS16DCG**
IP68 - Metal terminal	**UTS16DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS16DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX616DCG**

Plastic protective cap



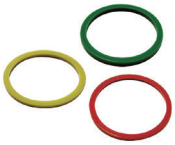
Part number receptacle cap	Part number plug cap
85005589A	**85005598**

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS716CCRG**	**UTS616CCRG**
Y for Yellow	**UTS716CCRY**	**UTS616CCRY**
R for Red	**UTS716CCRR**	**UTS616CCRR**

Tooling

Tooling

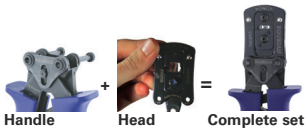




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle + Head = Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K**(1)	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 210**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Souriau UTSX series

1619 (Shell size 16, 19x#16)

Contacts #16

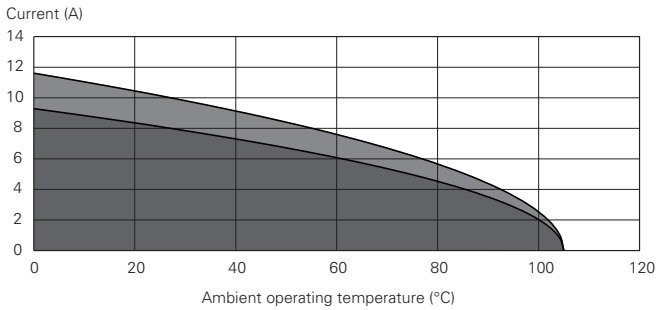
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
9A 250V with AWG16 wire	5A 250V with AWG16 wire	8A 32V 2.0kV 3

UTSX 1619 derating curves



Current use
Limited use
Not recommended use

Test conditions

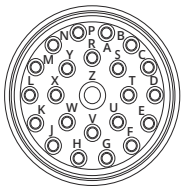
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 16E23 / 16D23



23 contacts
7.5A/250V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 178**	Square flange receptacle	Without (Fig. 1)	**UTSX016E23P**	**UTSX016E23S**
	Plug	Without (Fig. 4)	**UTSX616E23P**	**UTSX616E23S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC16E23P**	**UTSX6JC16E23S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX716E23P**	**UTSX716E23S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX716E23P32**	**UTSX716E23S32**
PCB contacts loaded see **Page 178**	Square flange receptacle	Without (Fig. 3)	**UTSX016D23P**	**UTSX016D23S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX716D23P**	**UTSX716D23S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX716D23P32**	**UTSX716D23S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

16E23/16D23 (Shell size 16, 22x#20, 1x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

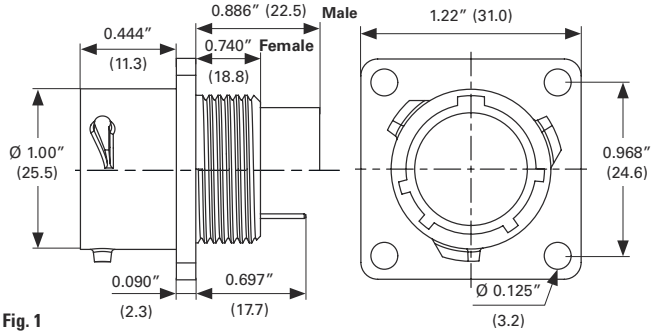


Fig. 1

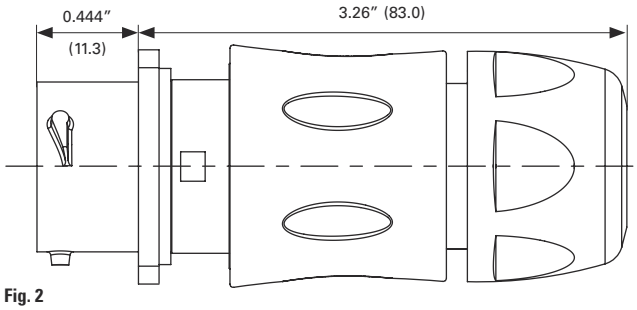


Fig. 2

Cable diameter acceptance: standard seal: from 0.472″ to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Free hanging - UTSX1JC and UTSXGJC

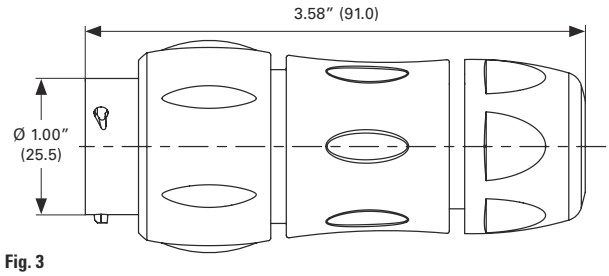


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Plug - UTSX6 and UTSX6JC

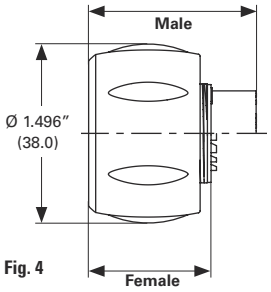


Fig. 4

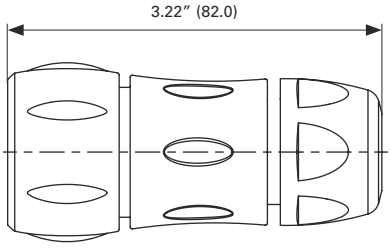


Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Jam nut receptacle UTSX7

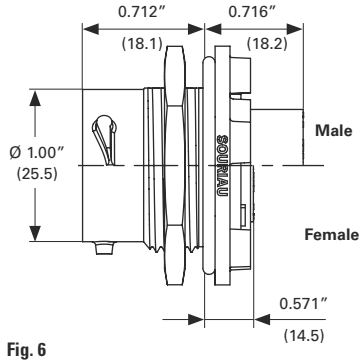


Fig. 6

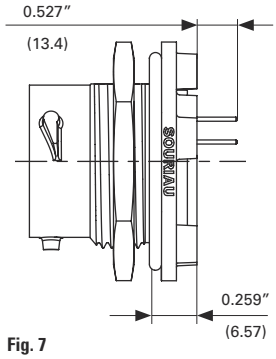


Fig. 7

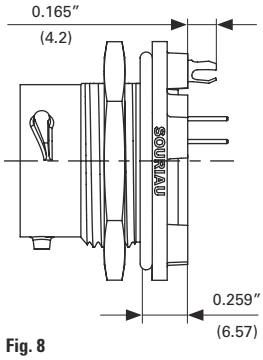
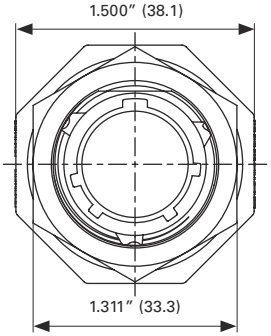
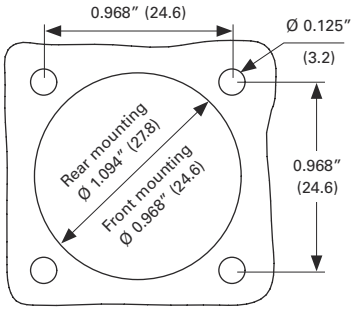


Fig. 8

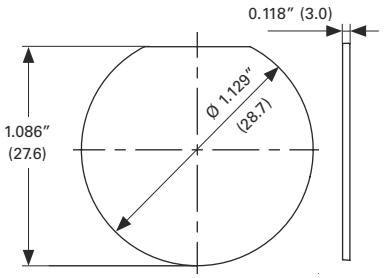


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS16DCG**
IP68 - Metal terminal	**UTS16DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS16DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX616DCG**

Plastic protective cap



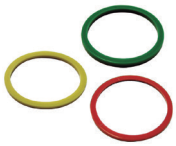
Part number receptacle cap	Part number plug cap
85005589A	**85005598**

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS716CCRG**	**UTS616CCRG**
Y for Yellow	**UTS716CCRY**	**UTS616CCRY**
R for Red	**UTS716CCRR**	**UTS616CCRR**

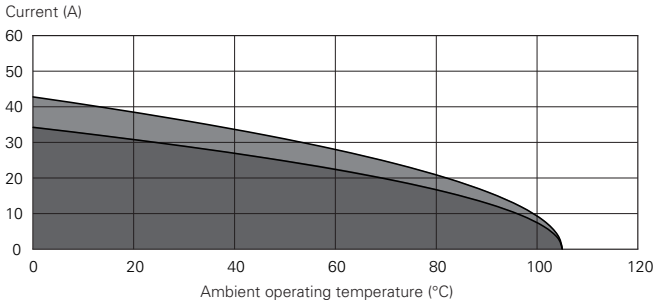
Souriau UTSX series

16E23/16D23 (Shell size 16, 22x#20, 1x#16)

Electrical characteristics

UL	CSA	IEC
UTSX 16E23/16D23 7.5A 250V with AWG 16 wire 3.5A 250V with AWG 20 wire	7.5A 250V with AWG 16 wire 3.5A 250V with AWG 20 wire	13A 32V 2kV 3

UTSX 1623 - 16E23/16D23 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

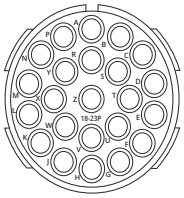
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 1823



23 contacts
9A/250V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 183**	Square flange receptacle	Without (Fig. 1)	**UTSX01823P**	**UTSX01823S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1823P**	**UTSX0JC1823S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1823P**	**UTSX1JC1823S**
	Plug	Without (Fig. 4)	**UTSX61823P**	**UTSX61823S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1823P**	**UTSX6JC1823S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71823P**	**UTSX71823S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX71823P32**	**UTSX71823S32**
PCB contacts supplied separately see **Page 183**	Square flange receptacle	Without (Fig. 1)	**UTSX01823P**	**UTSX01823S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX71823P**	**UTSX71823S**

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

1823 (Shell size 18, 23x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

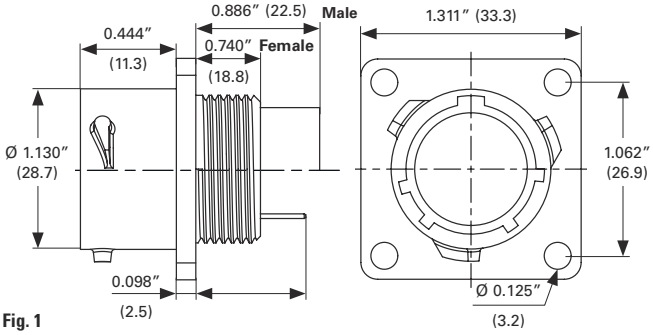


Fig. 1

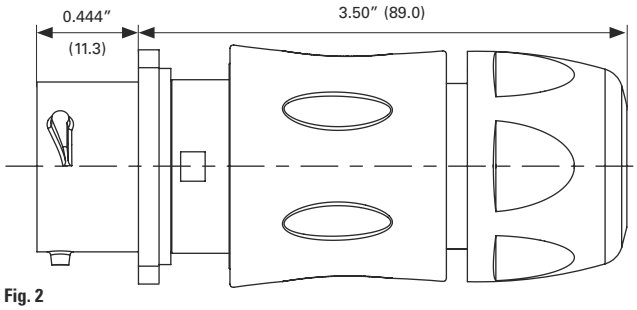


Fig. 2

Cable diameter acceptance: standard seal: from 0.512″ to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Free hanging - UTSX1JC and UTSXGJC

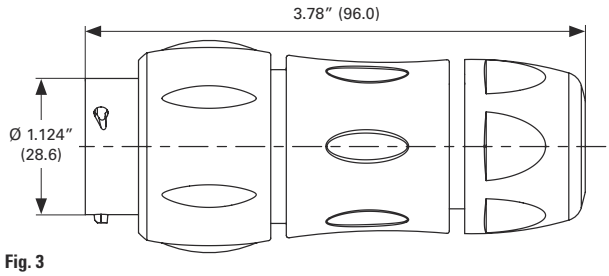


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Plug - UTSX6 and UTSX6JC

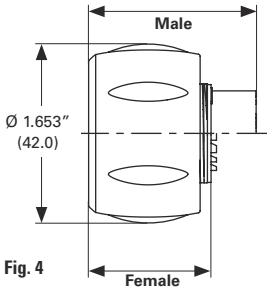


Fig. 4

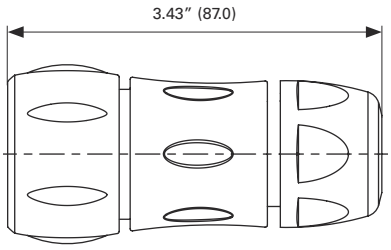


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Jam nut receptacle UTSX7

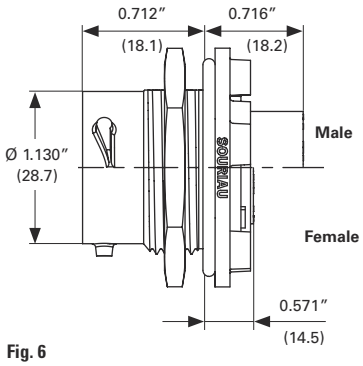


Fig. 6

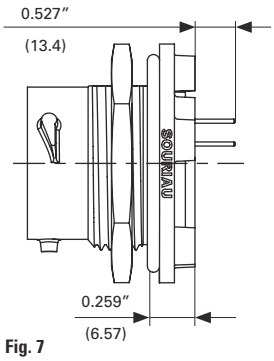


Fig. 7

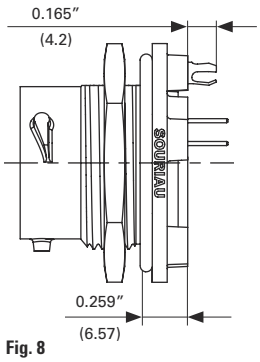
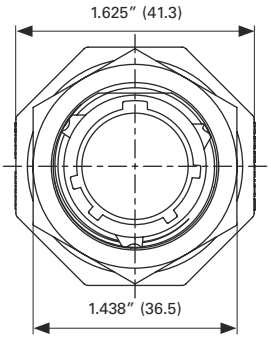
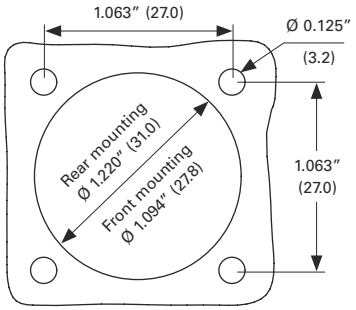


Fig. 8

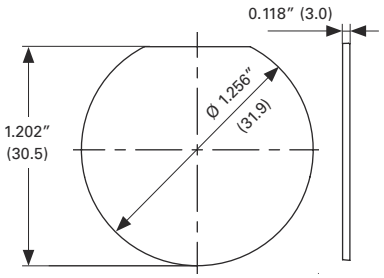


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS18DCG**
IP68 - Metal terminal	**UTS18DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS18DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX618DCG**

Plastic protective cap



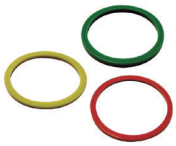
Part number receptacle cap	Part number plug cap
85005590A	**85005599**

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS718CCRG**	**UTS618CCRG**
Y for Yellow	**UTS718CCRY**	**UTS618CCRY**
R for Red	**UTS718CCRR**	**UTS618CCRR**

Souriau UTSX series

1823 (Shell size 18, 23x#16)

Tooling

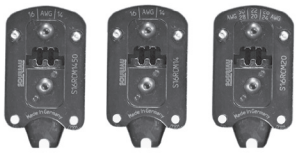
Tooling

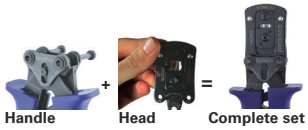




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle Head Complete set

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	**RM/RC 28M1K**(1)	**S16RCM20***
	RM/RC 24M9K(1)	**S16RCM20***
	RM/RC 20M13K(1)	**S16RCM20***
	RM/RC 20M12K(1)	**S16RCM20***
	RM/RC 16M23K(1)	**S16RCM16***
	RM/RC 14M30K(1)	**S16RCM14***
	SM/SC 24ML1TK6(1)	**S16SCM20***
	SM/SC 20ML1TK6(1)	**S16SCM20***
	SM/SC 16ML1TK6(1)	**S16SCML1***
	SM/SC 14ML1TK6(1)	**S16SCML1***
	SM/SC 16ML11TK6(1)	**S16SCML11***

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	**M20S-1J**
Die casts and stop bushings	See **Page 210**

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	**RX2025GE1**
Fig. 2 - Long endurance tool	**RX2031J**

Contacts #16

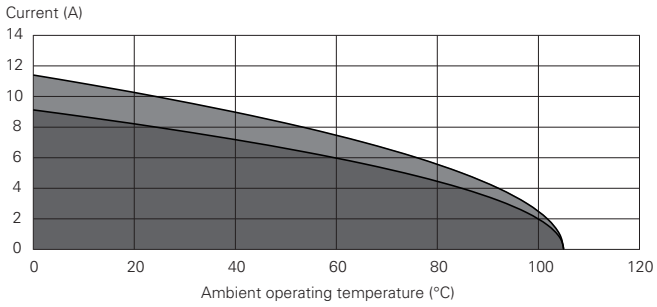
		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	**Contact type**	**AWG**	**inch²**	**mm²**	**Male**	**Female**	**inch**	**mm**	**inch**	**mm**
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1K**(1)	**RC28M1K**(1)	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	**RM24M9K**(1)	**RC24M9K**(1)	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20M13K**(1)	**RC20M13K**(1)	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	**RM20M12K**(1)	**RC20M12K**(1)	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	**RM16M23K**(1)	**RC16M23K**(1)	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	**RM14M30K**(1)	**RC14M30K**(1)	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note (2) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24M1TK6**(1)(2)	**SC24M1TK6**(1)(2)	–	–	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	**SM20M1TK6**(1)(2)	**SC20M1TK6**(1)(2)	–	–	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	**SM16M1TK6**(1)(2)	**SC16M1TK6**(1)(2)	–	–	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	**SM16M11TK6**(1)(2)	**SC16M11TK6**(1)(2)	–	–	0.118"	3.00
		14	0.098"	2.48	**SM14M1TK6**(1)(2)	**SC14M1TK6**(1)(2)	–	–	0.125"	3.20
PCB	Machined (3)	–			**RM20M12E83K**(1)	**RC20M12E84K**(1)	–	–	–	–
Coaxial	Cable multipiece	see **Page 203**			**RMDXK10D28**	**RCDXK1D28**	–	–	–	–
	Cable monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
	Twisted pair multipiece	see **Page 203**			**RMDXK10D28 + yorx090**	**RCDXK1D28 + yorx090**	–	–	–	–
	Twisted pair monocrimp	see **Page 203**			**RMDX60xxD28**	**RCDX60xxD28**	–	–	–	–
Fiber optic	POF contacts (Plastic optical fiber)	–			**RMPOF1000**	**RCPOF1000B**	–	–	–	–
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	–	–	–	–	–	–

(1) Example of plating, for other plating see **Page 199**
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6
(3) for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
9A 250V with AWG16 wire	5A 250V with AWG16 wire	8A 16V 2kV 3

UTSX 1823 derating curves



Current use
Limited use
Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

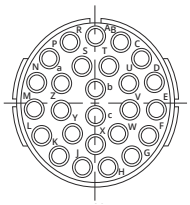
Souriau UTSX series

1626 - 16E26/16D26 (Shell size 16, 26x#20)



Connector part number

UTSX



1626
26 contacts
4A/250V per UL 1977
with AWG20 wire

16E26 / 16D26

26 contacts
4A/250V per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 188**	Square flange receptacle	Without (Fig. 1)	**UTSX01626P**	**UTSX01626S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1626P**	**UTSX0JC1626S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1626P**	**UTSX1JC1626S**
	Plug	Without (Fig. 4)	**UTSX61626P**	**UTSX61626S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1626P**	**UTSX6JC1626S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71626P**	**UTSX71626S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX71626P32**	**UTSX71626S32**
PCB contacts supplied separately see **Page 188**	Square flange receptacle	Without (Fig. 1)	**UTSX01626P**	**UTSX01626S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX71626P**	**UTSX71626S**
Handsolder electrical contacts loaded see **Page 188**	Square flange receptacle	Without (Fig. 1)	**UTSX016E26P**	**UTSX016E26S**
	Plug	Without (Fig. 4)	**UTSX616E26P**	**UTSX616E26S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC16E26P**	**UTSX6JC16E26S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX716E26P**	**UTSX716E26S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX716E26P32**	**UTSX716E26S32**
PCB contacts loaded see **Page 188**	Square flange receptacle	Without (Fig. 3)	**UTSX016D26P**	**UTSX016D26S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX716D26P**	**UTSX716D26S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX716D26P32**	**UTSX716D26S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

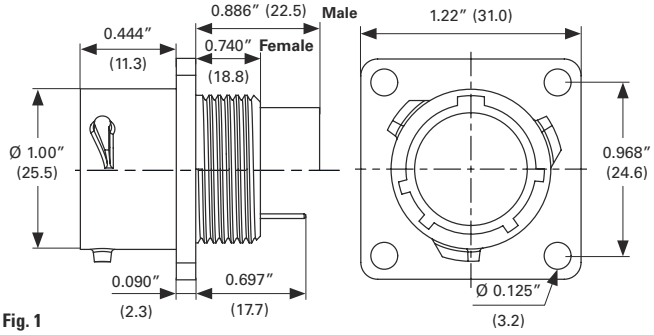


Fig. 1

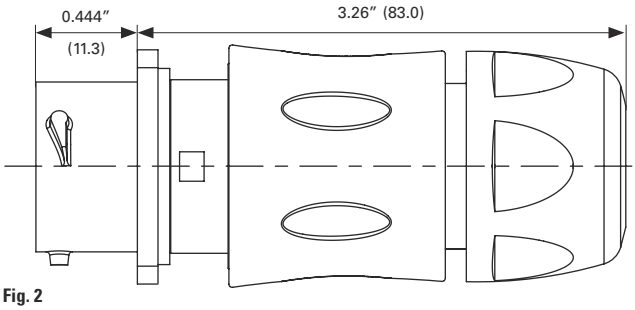


Fig. 2

Cable diameter acceptance: standard seal: from 0.472″ to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Free hanging - UTSX1JC and UTSXGJC

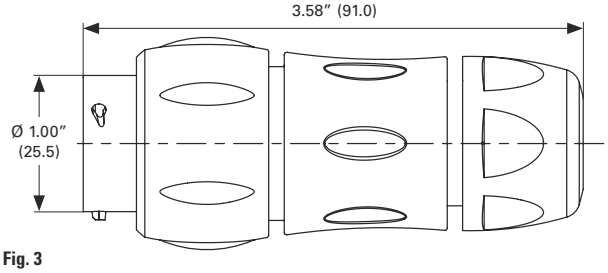


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Plug - UTSX6 and UTSX6JC

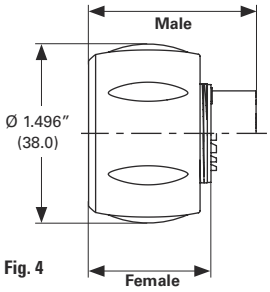


Fig. 4

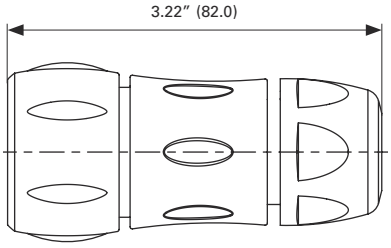


Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Jam nut receptacle UTSX7

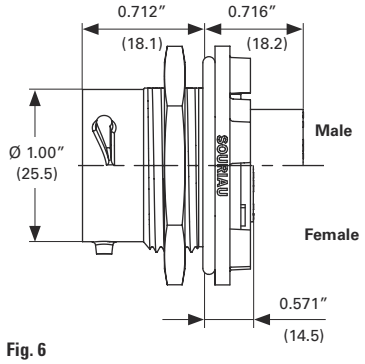


Fig. 6

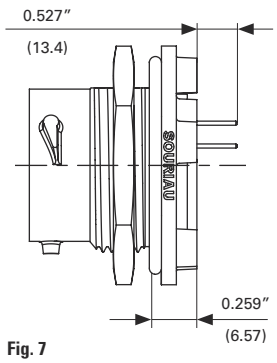


Fig. 7

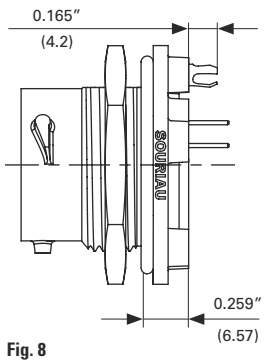
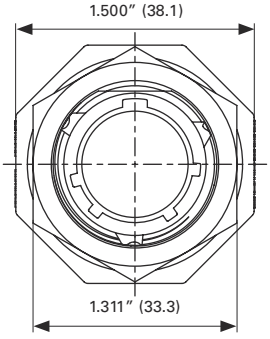
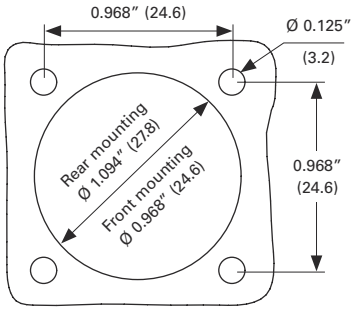


Fig. 8

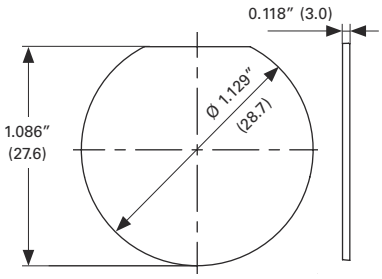


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

1626 - 16E26/16D26 (Shell size 16, 26x#20)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS16DCG**
IP68 - Metal terminal	**UTS16DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS16DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX616DCG**

Plastic protective cap



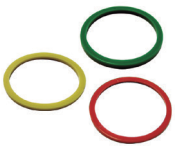
Part number receptacle cap	Part number plug cap
85005589A	**85005598**

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS716CCRG**	**UTS616CCRG**
Y for Yellow	**UTS716CCRY**	**UTS616CCRY**
R for Red	**UTS716CCRR**	**UTS616CCRR**

Tooling

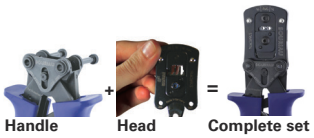
#20 stamped or machined contacts



Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1)	**RM/RC 24W3K**(1)	**S20RCM***
	RM/RC 20W3K(1)	**S20RCM***
	RM/RC 18W3K(1)	**S20RCM***
	SM/SC 24WL3(1)(2)	**S20SCM20***
	SM/SC 20WL3(1)(2)	**S20SCM20***

(1) Example of plating, for other plating options see **Page 199**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

Extraction tool #20



Description	Part number
Contacts #20 Ø 0.039" (1)	**RX20D44**

Souriau UTSX series

1626 - 16E26/16D26 (Shell size 16, 26x#20)

Contacts #20

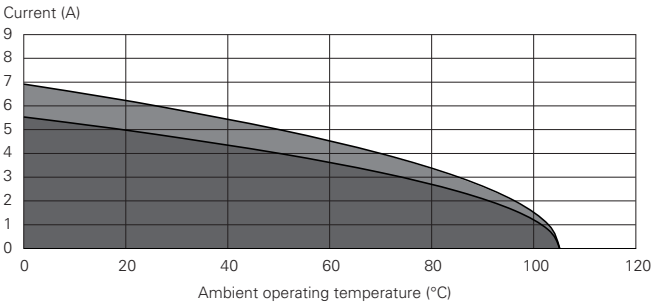
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	**RM24W3K**	**RC24W3K**	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20W3K**	**RC20W3K**	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	**RM18W3K**	**RC18W3K**	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note (1) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24W3TK6(1)**	**SC24W3TK6(1)**	–	–	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	**SM24W3S26(1**	**SC24W3S25(1)**	–	–	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3TK6(1)**	**SC20W3TK6(1)**	–	–	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3S26(1)**	**SC20W3S25(1)**	–	–	0.047"-0.082"	1.20-2.10

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

Electrical characteristics

UL	CSA	IEC
UTSX 1626 4A 250V with AWG20 wire	2A 250V with AWG20 wire	4.5A 32V 1.5kV 2
UTSX 16E26/16D26 4A 250V with AWG20 wire	4A 250V with AWG20 wire	5A 32V 1.5kV 3

UTSX 1626 - 16E26/16D26 derating curves

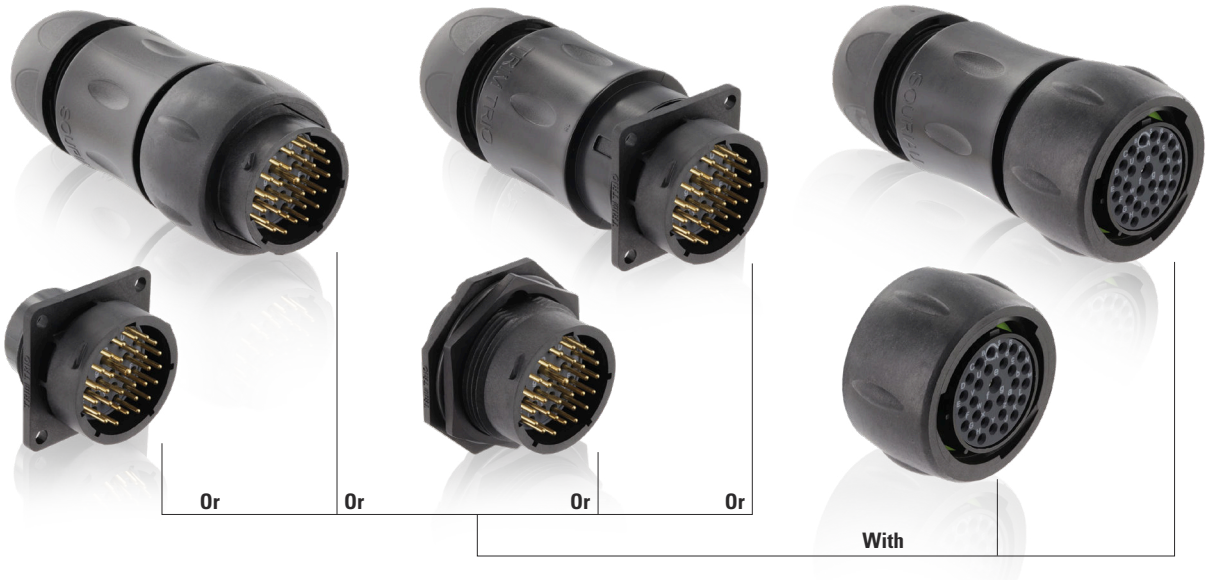


Current use
Limited use
Not recommended use

Test conditions

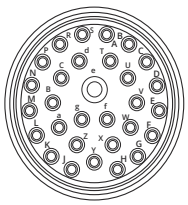
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 18E30 /18D30



30 contacts
7.5A/250V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see **Page 192**	Square flange receptacle	Without (Fig. 1)	**UTSX018E30P**	**UTSX018E30S**
	Plug	Without (Fig. 4)	**UTSX618E30P**	**UTSX618E30S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC18E30P**	**UTSX6JC18E30S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX718E30P**	**UTSX718E30S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX718E30P32**	**UTSX718E30S32**
PCB contacts loaded see **Page 192**	Square flange receptacle	Without (Fig. 3)	**UTSX018D30P**	**UTSX018D30S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX718D30P**	**UTSX718D30S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX718D30P32**	**UTSX718D30S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

18E30/18D30 (Shell size 18, 29x#20, 1x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

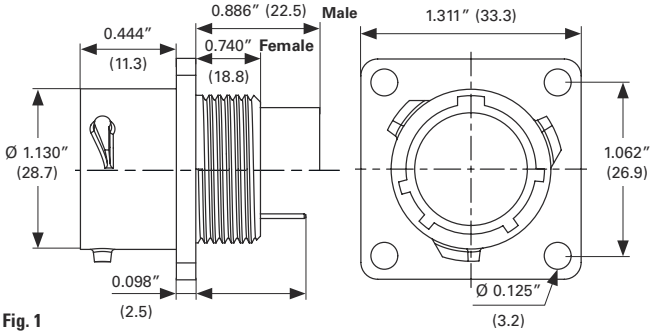


Fig. 1

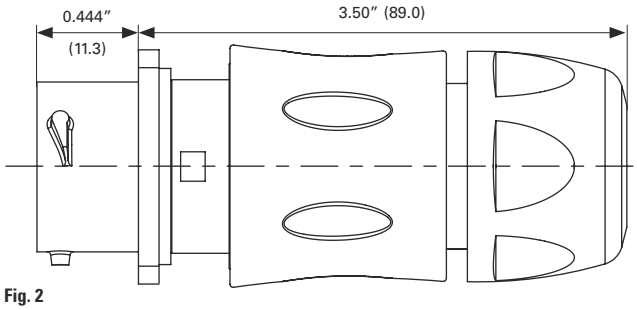


Fig. 2

Cable diameter acceptance: standard seal: from 0.512″ to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Free hanging - UTSX1JC and UTSXGJC

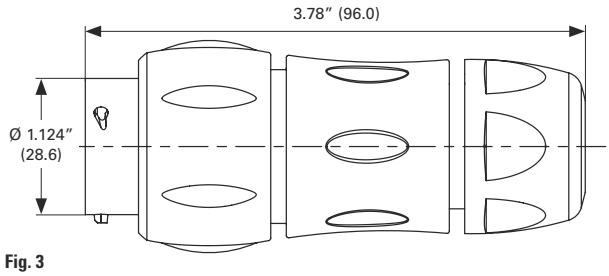


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Plug - UTSX6 and UTSX6JC

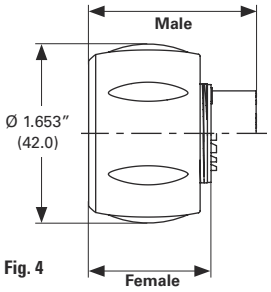


Fig. 4

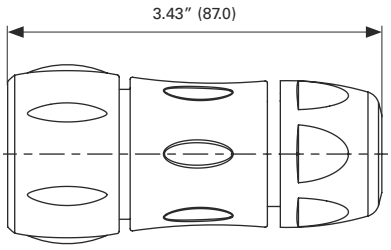


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Jam nut receptacle UTSX7

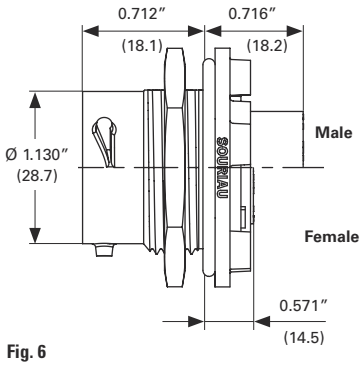


Fig. 6

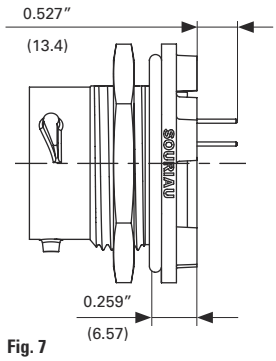


Fig. 7

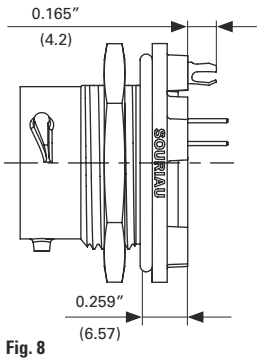
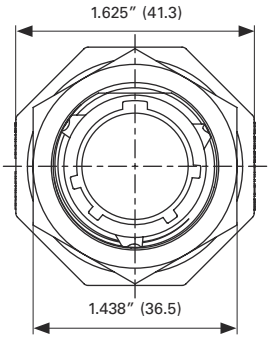
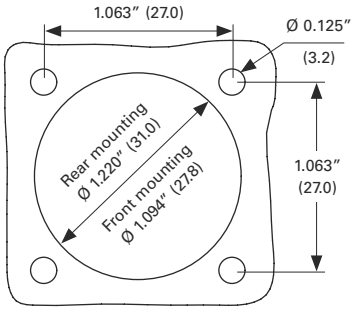


Fig. 8

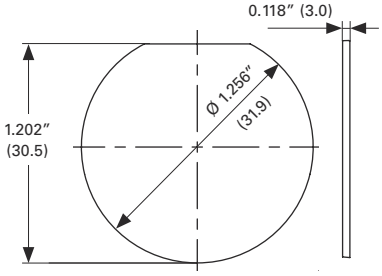


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS18DCG**
IP68 - Metal terminal	**UTS18DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS18DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX618DCG**

Plastic protective cap



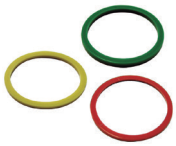
Part number receptacle cap	Part number plug cap
85005590A	**85005599**

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS718CCRG**	**UTS618CCRG**
Y for Yellow	**UTS718CCRY**	**UTS618CCRY**
R for Red	**UTS718CCRR**	**UTS618CCRR**

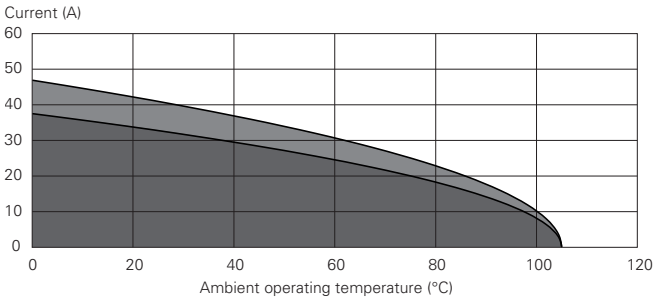
Souriau UTSX series

18E30/18D30 (Shell size 18, 29x#20, 1x#16)

Electrical characteristics

UL	CSA	IEC
UTSX 18E30/18D30 3.5A 250V with AWG 16 wire 7.5A 250V with AWG 20 wire	3.5A 250V with AWG 16 wire 7.5A 250V with AWG 20 wire	13A 20V 2kV 3

UTSX 18E30/18D30 derating curves

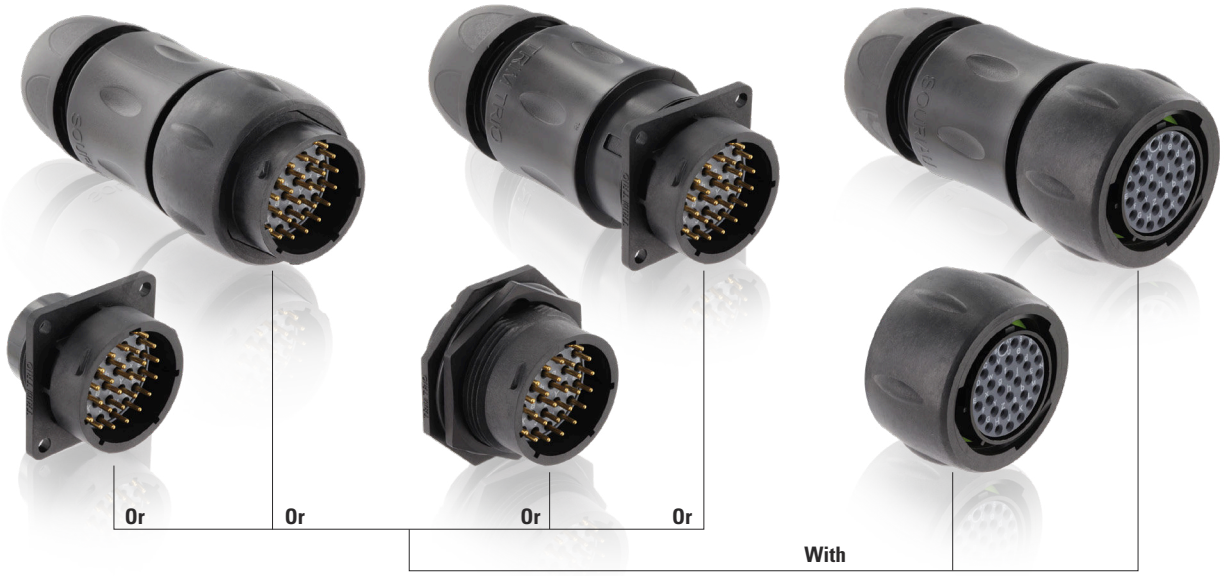


- Current use
- Limited use
- Not recommended use

Test conditions

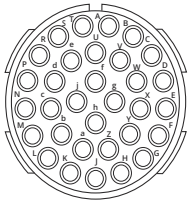
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX



1832

32 contacts
4A/250V per UL 1977
with AWG20 wire

18E32 /18D32

32 contacts
4A/250V per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see **Page 197**	Square flange receptacle	Without (Fig. 1)	**UTSX01832P**	**UTSX01832S**
	Square flange receptacle	Cable gland (Fig. 2)	**UTSX0JC1832P**	**UTSX0JC1832S**
	Free hanging receptacle	Cable gland (Fig. 3)	**UTSX1JC1832P**	**UTSX1JC1832S**
	Plug	Without (Fig. 4)	**UTSX61832P**	**UTSX61832S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC1832P**	**UTSX6JC1832S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX71832P**	**UTSX71832S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX71832P32**	**UTSX71832S32**
PCB contacts supplied separately see **Page 197**	Square flange receptacle	Without (Fig. 1)	**UTSX01832P**	**UTSX01832S**
	Jam nut receptacle	Without (Fig. 7)	**UTSX71832P**	**UTSX71832S**
Handsolder electrical contacts loaded see **Page 197**	Square flange receptacle	Without (Fig. 1)	**UTSX018E32P**	**UTSX018E32S**
	Plug	Without (Fig. 4)	**UTSX618E32P**	**UTSX618E32S**
	Plug	Cable gland (Fig. 5)	**UTSX6JC18E32P**	**UTSX6JC18E32S**
	Jam nut receptacle	Without (Fig. 6)	**UTSX718E32P**	**UTSX718E32S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX718E32P32**	**UTSX718E32S32**
PCB contacts loaded see **Page 197**	Square flange receptacle	Without (Fig. 3)	**UTSX018D32P**	**UTSX018D32S**
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	**UTSX718D32P**	**UTSX718D32S**
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	**UTSX718D32P32**	**UTSX718D32S32**

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

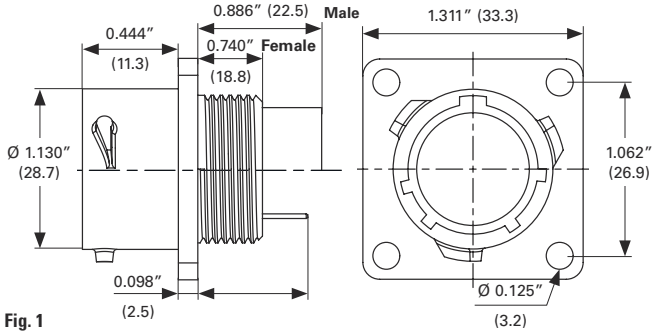


Fig. 1

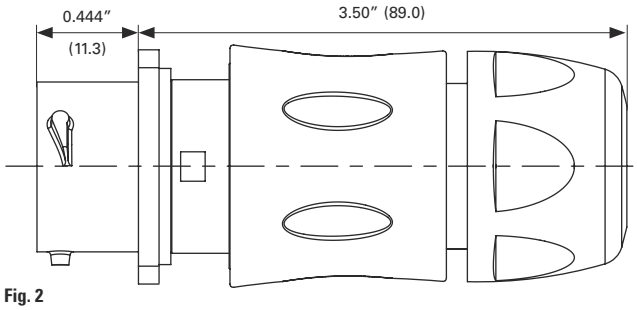


Fig. 2

Cable diameter acceptance: standard seal: from 0.512″ to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Free hanging - UTSX1JC and UTSXGJC

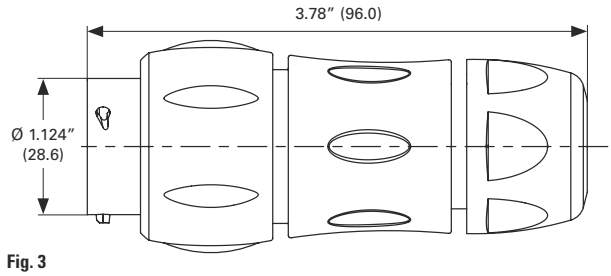


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Plug - UTSX6 and UTSX6JC

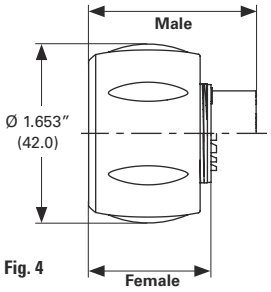


Fig. 4

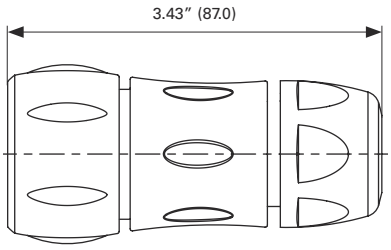


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Jam nut receptacle UTSX7

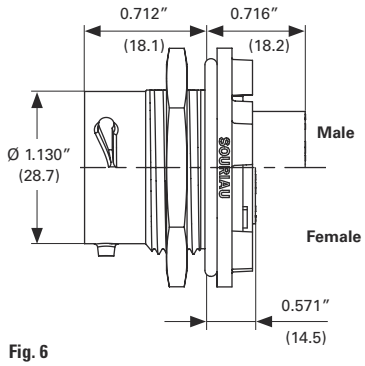


Fig. 6

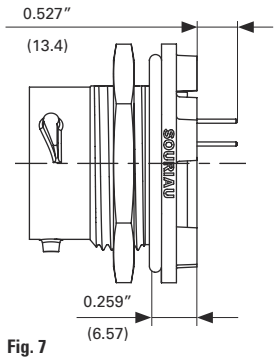


Fig. 7

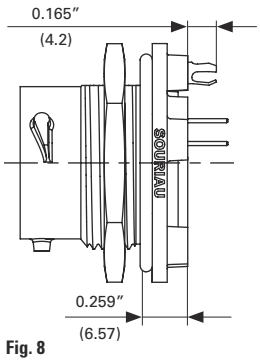
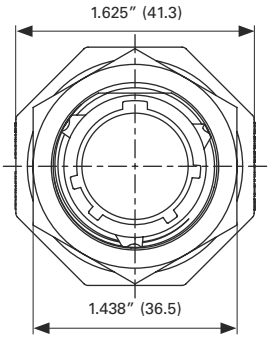
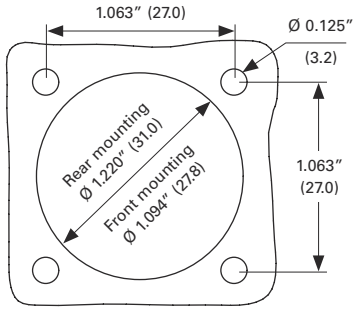


Fig. 8

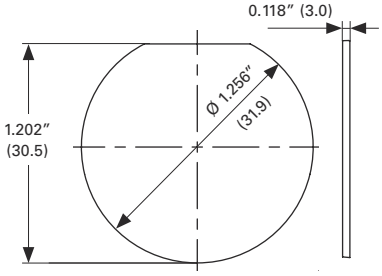


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	**UTS18DCG**
IP68 - Metal terminal	**UTS18DCGR**

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	**UTS18DCGE**

Plug sealing cap



Description	Part number
IP68	**UTX618DCG**

Plastic protective cap



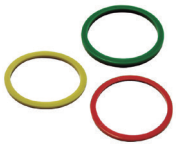
Part number receptacle cap	Part number plug cap
85005590A	**85005599**

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	**UTS718CCRG**	**UTS618CCRG**
Y for Yellow	**UTS718CCRY**	**UTS618CCRY**
R for Red	**UTS718CCRR**	**UTS618CCRR**

Souriau UTSX series

1832 - 18E32/18D32 (Shell size 18, 32x#20)

Tooling

#20 stamped or machined contacts

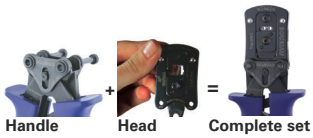




Description	Part number
Handle (without head)	**Shandles**
Box containing handle and several crimp tooling	**Toolkit**

Crimp tooling (without Shandles)





Handle Head Complete set

Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1)	**RM/RC 24W3K(1)**	**S20RCM***
	RM/RC 20W3K(1)	**S20RCM***
	RM/RC 18W3K(1)	**S20RCM***
	SM/SC 24WL3(1)(2)	**S20SCM20***
	SM/SC 20WL3(1)(2)	**S20SCM20***

(1) Example of plating, for other plating options see **Page 198**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

Extraction tool #20



Description	Part number
Contacts #20 Ø 0.039" (1.0)	**RX20D44**

Contacts #20

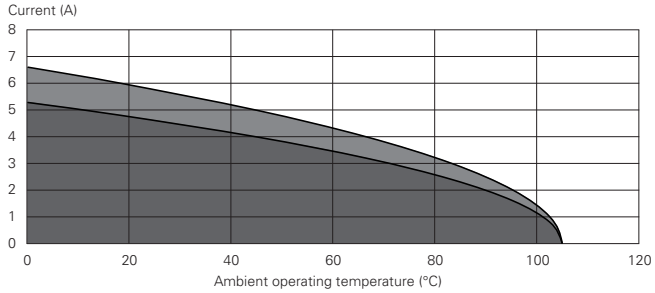
Contact style	Contact type	Cable acceptance AWG	Cable acceptance inch²	Cable acceptance mm²	Part number Male	Part number Female	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	**RM24W3K**	**RC24W3K**	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	**RM20W3K**	**RC20W3K**	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	**RM18W3K**	**RC18W3K**	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note (1) for loose piece	26-24	0.005"-0.009"	0.13-0.25	**SM24W3TK6(1)**	**SC24W3TK6(1)**	–	–	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	**SM24W3S26(1**	**SC24W3S25(1)**	–	–	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3TK6(1)**	**SC20W3TK6(1)**	–	–	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	**SM20W3S26(1)**	**SC20W3S25(1)**	–	–	0.047"-0.082"	1.20-2.10

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

Electrical characteristics

UL	CSA	IEC
UTSX 1832 4A 250V with AWG20 wire	2A 250V with AWG20 wire	4A 32V 1.5kV 2
UTSX 18E32/18D32 4A 250V with AWG20 wire	4A 250V with AWG20 wire	4.5A 32V 2kV 3

UTSX 1832 - 18E32/18D32 derating curves



Current use
Limited use
Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.

UTSX contacts

The TRIM TRIO® product line uses the same contact style in any layout, with the same active part size (i.e. #20, #16, #12, etc.). This allows you to use one type of contact to equip all of your Souriau connectors in the TRIM TRIO® product line.

Please note that the UTSX series is delivered with solder or PCB contacts for Hi-seal versions and without contacts for standard crimp versions. The benefit of this standardization is to drastically reduce inventory costs. In addition, it eliminates the need for additional tooling and simplifies the assembly process. Souriau TRIM TRIO® contacts are designed for simple snap-in installation and further eliminate the need for an insertion tool.

Contact plating selector guide

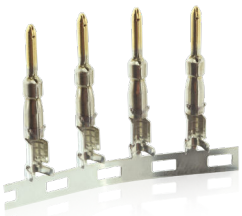
Once the contact size has been selected, the next step determine which electrical contact type should be used.
We offers two main types of electrical contacts:

- Machined
- Stamped and formed





Machined contacts



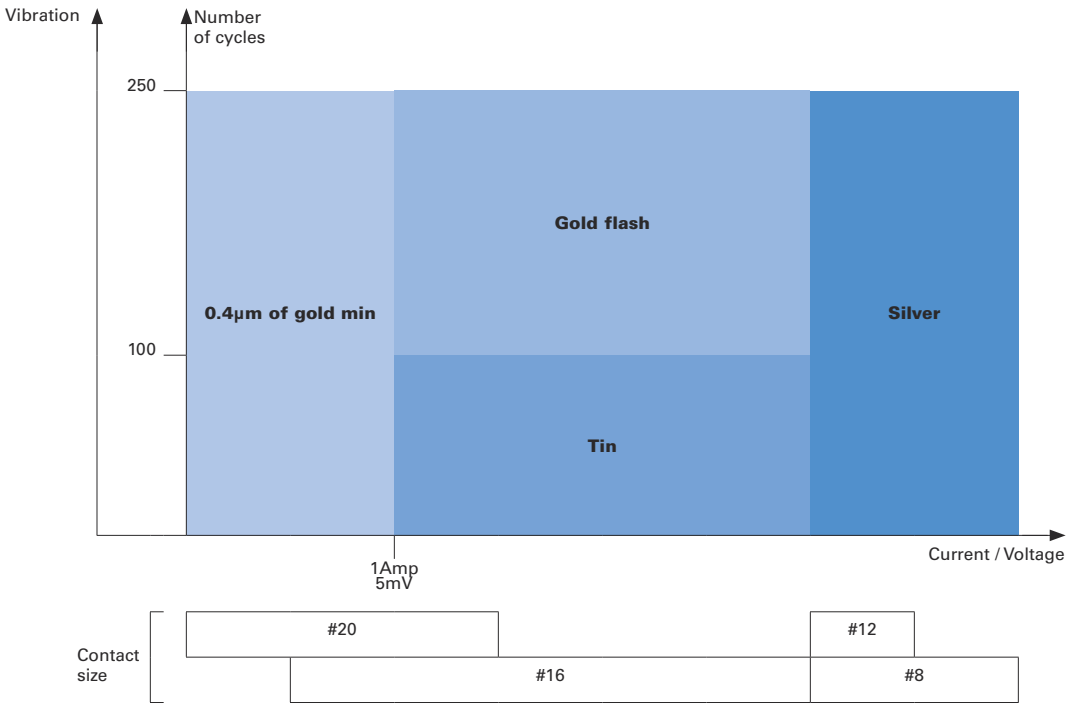


Stamped and formed contacts

Machined contacts are generally selected as a better solution for power applications or when lower quantities are needed. Stamped and formed contacts offer the ability to be crimped automatically which makes them more suitable for high volume production applications.

The ideal plating is selected based on your application. Use the graph below to identify a plating based on the number of mating cycles, vibration and current/voltage needs for your application.

Note: Do not mix different plating (i.e. tin plated pin contacts with gold plated socket contacts).



Machined contacts

Contact size	Contact type	Active area
#20 **Ø 0.039" (1)**	K	0.4µm Gold over 2µm Nickel min
#16 **Ø 0.062" (1.6)**	K	0.4µm Gold over 2µm Nickel min
	J	Gold flash over Nickel 2µm min
	T	Tin 3µm (-0/+2) over 1.3µm Nickel min
	D28 for Coax contacts only	0.75µm min Gold over 2µm Nickel min
#12 **Ø 0.094" (2.4)**	A	2µm Nickel + 2µm Ag
	K	0.4µm Gold over 2µm Nickel min
#8 **Ø 0.141" (3.6)**	A	2µm Nickel + 2µm Ag

Stamped and formed contacts

Contact size	Plating code	Plating description Active area	Other area
#20	S25 (female)	0.75µm Gold min over Nickel	Gold flash over Nickel
Ø 0.039" (1)	S26 (male)	0.75µm Gold min over Nickel	Gold flash over Nickel
	TK6	0.5µm - 2.5µm Sn pre-plated	-
#16	S31	Gold flash over Nickel	Crimped area: 1.3µm
Ø 0.062" (1.6)	S18	0.75µm Gold min over Nickel	Tin min over Nickel Other areas: 1.3µm Tin min
	D70	0.13µm Gold min over Nickel	Gold flash over Nickel
	TK6	0.5µm - 2.5µm Sn pre-plated	-

Contacts supplied separately

Contact size	Contact type	Resistance
Electrical characteristics: contact resistance		
#20 Ø 0.039" (1)	Machined	< 6mΩ
	Stamped and formed	< 6mΩ
#16 Ø 0.062" (1.6)	Machined	< 3mΩ
	Stamped and formed	< 6mΩ
#12 Ø 0.094" (2.4)	Machined	< 5mΩ
#8 Ø 0.141" (3.6)	Machined	< 5mΩ

Dimensions in inches (millimeters

Souriau UTSX series

Packaging

TRIM TRIO® contacts are available in a wide variety of packaging, from very small quantities (small bulk packaging) to very large quantities (reeled parts).

Contacts size #20 / Ø 0.039" (1) and #16 / Ø 0.062" (1.6)

Stamped and formed contacts



Description	Number
Loose package	**25 pieces**
Reeled	**3,000 pieces**

Machined contacts



Description	Number
Bulk package	**50 pieces**
Bulk package	**1,000 pieces**
Reeled size #16 only	**2,000 pieces**

Contacts machined size #12 / Ø 0.094" (2.4) and #8 / Ø 0.141" (3.6)

Machined contacts



Description	Number
Bulk package	**100 pieces**

Note: 1,000 pieces bulk package available by adding 1000 at the end of the part number: e.g. RC16M23K1000 2,000 pieces reeled package available by adding K at the begining of the part number: e.g. KRC16M23K

Dimensions in inches (millimeters)

Standard version

Contact size	Type	Wire size			Part number		Insulator Ø max		Available plating see Page 126
		AWG	inch²	mm²	Male	Female	inch	mm	
#20 Ø 0.039" (1)	Machined	26-24	0.005"-0.007"	0.13-0.20	**RM24W3K**	**RC24W3K**	0.062" max	1.58 max	K
	Stamped and formed	26-24	0.005"-0.009"	0.13-0.25	**SM24W3-**(1)	**SC24W3-**(1)	0.035"-0.062"	0.89-1.58	TK6 S25 (female) S26 (male)
	Stamped and formed	26-24	0.005"-0.009"	0.13-0.25	**SM24WL3-**(2)	**SC24WL3-**(2)	0.035"-0.062"	0.89-1.58	TK6 S25 (female) S26 (male)
	Machined	22-20	0.012"-0.020"	0.32-0.52	**RM20W3K**	**RC20W3K**	0.062" max	1.58 max	K
	Stamped and formed	22-20	0.013"-0.019"	0.35-0.5	**SM20W3-**(1)	**SC20W3-**(1)	0.046"-0.081"	1.17-2.08	TK6 S25 (female) S26 (male)
	Stamped and formed	22-20	0.013"-0.019"	0.35-0.5	**SM20WL3-**(2)	**SC20WL3-**(2)	0.046"-0.081"	1.17-2.08	TK6 S25 (female) S26 (male)
	Machined	20-18	0.019"-0.031"	0.5-0.80	**RM18W3K**	**RC18W3K**	0.082" max	2.10 max	K
#16 Ø 0.062" (1.6)	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1-**	**RC28M1-**	0.043"	1.1	K, J
	Machined	26-24	0.005"-0.007"	0.13-0.2	**RM24M9-**	**RC24M9-**	0.062"	1.6	K, J
	Stamped and formed	26-24	0.005"-0.009"	0.13-0.25	**SM24M1-**(1) **SM24ML1-**(2)	**SC24M1-**(1) **SC24ML1-**(2)	0.089"-0.062"	0.89-1.58	S31, S18, TK6
	Machined	22-20	0.012"-0.020"	0.32-0.52	**RM20M13-**	**RC20M13-**	0.070"	1.8	K, J
	Machined	22-20	0.012"-0.020"	0.32-0.52	**RM20M12-**	**RC20M12-**	0.086"	2.2	K, J
	Stamped and formed	22-20	0.013"-0.019"	0.35-0.5	**SM20M1-**(1) **SM20ML1-**(2)	**SC20M1-**(1) **SC20ML1-**(2)	0.046"-0.081"	1.17-2.08	S31, S18, TK6
	Machined	18-16	0.031"-0.059"	0.92-1.5	**RM16M23-**	**RC16M23-**	0.125"	3.2	K, J
	Stamped and formed	18-16	0.031"-0.059"	0.8-1.5	**SM16M1-**(1) **SM16ML1-**(2)	**SC16M1-**(1) **SC16ML1-**(2)	No insulation grip	No insulation grip	S31, S18, TK6
	Stamped and formed	18-16	0.031"-0.059"	0.8-1.5	**SM16M11-**(1) **SM16ML11-**(2)	**SC16M11-**(1) **SC16ML11-**(2)	0.081"-0.118"	2.08-3.0	S31, S18, TK6
	Machined	16-14	0.059"-0.098"	1.5-2.5	**RM14M30-**	**RC14M30-**	0.125"	3.2	K, J
	Stamped and formed	14	0.078"-0.098"	2.0-2.5	**SM14M1-**(1) **SM14ML1-**(2)	**SC14M1-**(1) **SC14ML1-**(2)	No insulation grip	No insulation grip	S31, S18, TK6
#12 Ø 0.094" (2.4)	Machined	20	0.020"-0.015"	0.52-0.4	**82911457N-**	**82911456-**	0.157"	4.0	A, K
	Machined	20	0.019"	0.5	**82911459N-**	**82911458-**	0.157"	4.0	A, K
	Machined	18	0.2.952"-0.039"	0.75-1.0	**82911461N-**	**82911460-**	0.157"	4.0	A, K
	Machined	16	0.059"	1.5	**82911463N-**	**82911462-**	0.157"	4.0	A, K
	Machined	14	0.098"	2.5	**82911465N-**	**82911464-**	0.157"	4.0	A, K
	Machined	12	0.157"	4	**82911467N-**	**82911466-**	0.157"	4.0	A, K
#8 Ø 0.141" (Ø 3.6)	Machined	16	0.059"	1.5	**82913601A**	**82913600A**	0.248"	6.3	A
	Machined	14	0.098"	2.5	**82913603A**	**82913602A**	0.248"	6.3	A
	Machined	12	0.157"	4	**82913605A**	**82913604A**	0.248"	6.3	A
	Machined	10	0.236"	6.0	**82913607A**	**82913606A**	0.248"	6.3	A
	Machined	8	0.393"	10.0	**82913609A**	**82913608A**	0.248"	6.3	A

(1) contact reeled
(2) loose contact
Example: RM24W3K - Size #20, Machined, AWG24 wire.

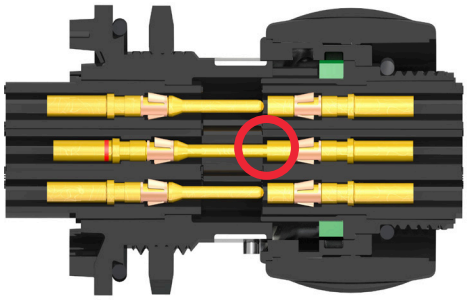
Dimensions in inches (millimeters)

First mate, last break male contacts

The layouts UTSX103, UTSX124, UTSX12E4/12D4, UTSX142G1, UTSX147 and UTSX14E7/14D7 are already designed to have a first mate, last break connection on the ground line. That's why, for cavities marked with the ground symbol, standard contacts will fulfill the same role as a first mate, last break contact used in a standard cavity.

For the other layouts (without ground marking) a specific contact is necessary to achieve ground connection.

Please choose your contact from the table below.

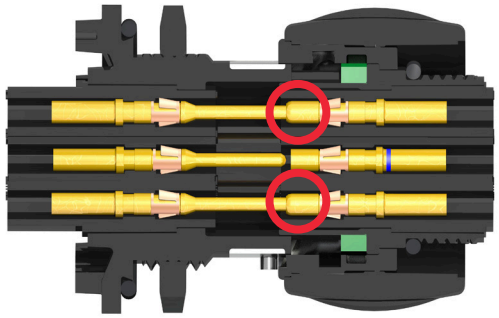


Contact size	Type	Wire size AWG	Wire size inch²	Wire size mm²	Part number Male	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm	Color band Front	Color band Rear	Available plating see Page 126
#16 Ø 0.062" (1.6)	Machined	30-28	0.002"-0.003"	0.05-0.08	**RM28M1GE1K**	0.021"	0.55	0.039"	1.0	-	Red	K
	Machined	26-24	0.005"-0.007"	0.13-0.2	**RM24M9GE1K**	0.031"	0.8	0.062"	1.6	Red	Red	K
Longer male contact +0.039" (+1)	Machined	22-20	0.012"-0.020"	0.32-0.52	**RM20M12GE1K**	0.045"	1.15	0.086"	2.2	Blue	Red	K
	Machined	18-16	0.031"-0.059"	0.92-1.5	**RM16M23GE1K**	0.070"	1.8	0.125"	3.2	–	Red	K
	Machined	16-14	0.059"-0.098"	1.5-2.5	**RM14M30GE1K**	0.089"	2.26	–	–	–	Red	K

Last break, first mate female contacts

In order to create a last break, first mate connection, a shorter female contact is necessary. On the other side, a standard male contact can be used.

A complete offer of contacts is available to realize this connection type according the wire section used for our contact #16. Please choose your contact from the table below.



Contact size	Type	Wire size AWG	Wire size inch²	Wire size mm²	Part number Male	Wire Ø max inch	Wire Ø max mm	Insulator Ø max inch	Insulator Ø max mm	Color band Front	Color band Rear	Available plating see Page 126
#16 Ø 0.062" (1.6)	Machined	30-28	0.002"-0.003"	0.05-0.08	**RC28M1GE7K**	0.021"	0.55	0.039"	1.0	-	Blue	K
	Machined	26-24	0.005"-0.007"	0.13-0.2	**RC24M9GE7K**	0.031"	0.8	0.062"	1.6	Red	Blue	K
Shorter female contact -0.027" (-0.7)	Machined	22-20	0.012"-0.020"	0.32-0.52	**RC20M13GE7K**	0.045"	1.15	0.070"	1.8	Black	Blue	K
	Machined	22-20	0.012"-0.020"	0.32-0.52	**RC20M12GE7K**	0.045"	1.15	0.086"	2.2	Blue	Blue	K
	Machined	18-16	0.031"-0.059"	0.92-1.5	**RC16M23GE1K**	0.070"	1.8	0.125"	3.2	–	Blue	K
	Machined	16-14	0.059"-0.098"	1.5-2.5	**RC14M30GE1K**	0.089"	2.26	–	–	–	Blue	K

Dimensions in inches (millimeters)

We provides two types of coaxial contacts suitable for 48 or 75Ω, coaxial cable or twisted pair cable.

Monocrimp coaxial contact

- The monocrimp one-piece coaxial contacts offer high reliability plus the economic advantage of a 95% reduction in installation time over conventional assembly methods. This is achieved by simultaneously crimping both the inner conductor and outer braid or drain wire.



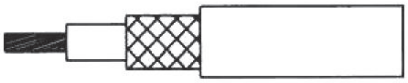
Multipiece crimp coaxial contact

- The inner conductor and outer braid is crimped individually.
- The thermoplastic insulating bushing in the outer body is designed to accept and permanently retain the inner contact.
- An outer ferrule is used to connect the braid to the outer contact and provide cable support to ensure against bending and vibration.

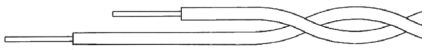


Suitable for coaxial cable or twisted cable

- For jacket diameter from 0.070" to 0.120" (1.78 to 3.05). Inner conductor up to 0.096" (2.42) diameter



- For jacket diameter from 0.025" to 0.057" (0.64 to 1.45). Inner conductor from AWG30 to AWG24



Contacts for coaxial cable summary

Contact type	Contact range Male contact	Female contact
Multipiece	**RMDXK10D28**	**RCDXK1D28**
Monocrimp	**RMDX60xxD28**	**RCDX60xxD28**

Contacts for twisted pairs cable summary

Contact type	Contact range Male contact	Female contact
Multipiece	**RMDXK10D28 + Yorx090**	**RCDXK1D28 + Yorx090**
Monocrimp	**RMDX60xxD28**	**RCDX60xxD28**

Coaxial cable - contact monocrimp and multipiece

Cable type	Impe-dance	Contact type	Ø over jacket		Ø over dielectric		nner cond size Ext. Ø		Ø outer braid		Male contact kit for coaxial cable	Female contact kit for coaxial cable
			inch	mm	inch	mm	inch	mm	inch	mm		
RG161/U	75	Multi piece	0.09"	2.29	0.057"	1.45	–	–	–	–	**RMDXK10D28**	**RCDXK1D28**
RG179A/U	75	Multi piece	0.105"	2.67	0.063"	1.6	0.011"	0.3	0.084" max	2.13 max	**RMDXK10D28**	**RCDXK1D28**
RG179B/U	75	Multi piece	0.105"	2.67	0.063"	1.6	0.011"	0.3	0.084" max	2.13 max	**RMDXK10D28**	**RCDXK1D28**
RG187/U	75	Multi piece	0.11" max	2.79 max	0.06"	1.52	0.011"	0.3	–	–	**RMDXK10D28**	**RCDXK1D28**
RG188/U	48	Multi piece	0.11" max	2.79 max	0.06"	1.52	0.020"	0.51	0.078" max	1.98 max	**RMDXK10D28**	**RCDXK1D28**
RG174/U	48	Multi piece	0.11"	2.92	0.06"	1.52	0.018"	0.05	0.088" max	2.24 max	**RMDXK10D28**	**RCDXK1D28**
AMPHENOL 21–598	48	Multi piece	0.105"	2.67	0.06"	1.52	0.018"	0.05	–	–	**RMDXK10D28**	**RCDXK1D28**
RG196/U	48	Multi piece	0.08" max	2.03 max	0.034"	0.086	0.011"	0.3	–	–	**RMDXK10D28**	**RCDXK1D28**
RG152A/U	48	Multi piece	0.075"	1.91	0.034"	0.84	0.011"	0.3	0.054" max	1.37 max	**RMDXK10D28**	**RCDXK1D28**
RG/188A/U	48	Mono crimp	0.110"	2.79	0.06"	1.52	0.020"	0.51	0.078" max	1.98 max	**RMDX6036D28**	**RCDX6036D28**
KX21TVT (europe) RG152 B/U	48	Mono crimp	0.075"	1.91	0.034"	0.84	0.011"	0.3	0.054" max	1.37 max	**RMDX6034D28**	**RCDX6034D28**
RG152 / BU	48	Mono crimp	0.075"	1.91	0.034"	0.84	0.011"	0.3	0.054" max	1.37 max	**RMDX6050D28**	**RCDX6016D28**
RG174/U	48	Mono crimp	0.115"	2.92	0.06"	1.52	0.018"	0.05	0.088" max	2.24 max	**RMDX6032D28**	**RCDX6032D28**
RG188A/U	48	Mono crimp	0.11"	2.79	0.06"	1.52	0.020"	0.51	0.078" max	1.98 max	**RMDX6036D28**	**RCDX6036D28**
RG316/U	48	Mono crimp	0.107"	2.72	0.06"	1.52	0.020"	0.51	0.078" max	2.05 max	**RMDX6036D28**	**RCDX6036D28**
raychem 5024A3111	48	Mono crimp	0.12"	3.05	0.083"	2.11	0.025"	0.64	0.097"	2.46	**RMDX6052D28**	**RCDX6052D28**
raychem 5026e1614	48	Mono crimp	0.083"	2.11	0.05"	1.27	0.018"	0.05	0.067"	1.7	**RMDX6036D28**	**RCDX6036D28**
surprenant pn 8134	–	Multi piece	0.1"	2.54	0.058"	1.47	0.011"	0.3	–	–	**RMDXK10D28**	**RCDXK1D28**
PRD PN 247AS-C1123–001	–	Mono crimp	0.103"	2.62	0.06"	1.52	0.020"	0.51	0.078"	1.98	**RMDX6018D28**	**RCDX6018D28**
PRD PN 247AS–C1251	–	Mono crimp	0.092"	2.34	0.05"	1.27	0.025"	0.64	0.067"	1.7	**RMDX6018D28**	**RCDX6018D28**
JUDD C15013010902	–	Mono crimp	0.087"	2.13	0.05"	1.27	0.018"	0.05	0.066"	1.67	**RMDX6036D28**	**RCDX6036D28**
CDC PIN22939200	–	Mono crimp	0.09"	2.29	0.048"	1.20	0.011"	0.3	0.064"	1.63	**RMDX6046D28**	**RCDX6016D28**
CDC PIN22939200	–	Mono crimp	0.09"	2.29	0.048"	1.20	0.011"	0.3	0.064"	1.63	**RMDX6050D28**	**RCDX6016D28**
CDC PIN245670000	–	Mono crimp	0.104"	2.64	0.067"	1.7	0.011"	0.3	0.083"	2.11	**RMDX6050D28**	**RCDX6016D28**
ampex	–	Mono crimp	0.114"	2.9	0.075"	1.91	0.014"	0.36	0.09"	1.29	**RMDX6032D28**	**RCDX6032D28**
TI PN 920580	–	Mono crimp	0.7"	1.78	0.038"	0.94	0.018"	0.05	0.054"	1.37	**RMDX6024D28**	**RCDX6024D28**
Honeywell PN 58000062	–	Mono crimp	0.12"	3.05	0.077"	1.94	0.016" solid	0.41 solid	0.096"	2.42	**RMDX6026D28**	**RCDX6026D28**
–	–	Mono crimp	0.104"	2.64	0.067"	1.7	0.011"	0.3	–	2.11	**RMDX6050D28**	–
–	–	Mono crimp	0.09"	2.29	0.048"	1.20	0.011"	0.3	–	1.63	**RMDX6050D28**	–
–	–	Mono crimp	0.114"	2.9	0.075"	1.91	0.014"	0.36	–	1.29	**RMDX6032D28**	**RCDX6032D28**
–	–	Mono crimp	0.07"	1.78	0.038"	0.94	0.018"	0.05	–	1.37	**RMDX6024D28**	**RCDX6024D28**
–	–	Mono crimp	0.12"	3.05	0.077"	1.94	0.016"	0.41	–	2.42	**RMDX6026D28**	**RCDX6026D28**

Twisted cable - contact monocrimp and multipiece

Cable type	Contact type	Inner AWG cond	Ø over jacket (single wire) inch	Ø over jacket (single wire) mm	Inner cond size Stranded definition	Inner cond size Ext. Ø inch	Inner cond size mm	Ø outer braid inch	Ø outer braid mm	Male contact kit for coaxial cable	Female contact kit for coaxial cable
2#24 stranded MIL-W-16878 type B	Multi piece	24	0.049" max	1.24 max	7/.008	–	–	–	–	**RMDXK10D28**	**RCDXK1D28**
2 #24 solid MIL-W-74 type LW	Multi piece	24	0.047" max	1.12 max	1/.0201	–	–	–	–	**RMDXK10D28**	**RCDXK1D28**
2 #26 stranded MIL-W-74 type LW or MIL-W-16878 type B&E	Multi piece	26	0.043" max	1.09 max	7/.0063	0.006"	0.16	–	–	**RMDXK10D28**	**RCDXK1D28**
2 #26 solid MIL-W-81822/3	Multi piece	26	0.028" max	0.71 max	–	–	–	–	–	**RMDXK10D28**	**RCDXK1D28**
Twisted pair 1/.201 solid MIL-W-74 type LW or MIL-W-16878	Multi piece	26	0.044" max	1.12 max	1/.0201	0.020"	0.511	–	–	**RMDXK10D28**	**RCDXK1D28**
Twisted pair solid MIL-W-81822/3	Multi piece	26	0.028" max	0.71 max	1/.0126	0.012"	0.32	–	–	**RMDXK10D28**	**RCDXK1D28**
#26 7/.0036 per Hitachi spec ec-711 (13-2820)	Mono crimp	–	0.046"	1.17	7/.0036	–	–	–	–	**RMDX6031D28 + YORX090**	**RCDX6031D28 + YORX090**
20218201	Mono crimp	–	0.028"	0.71	–	–	–	–	–	**RMDX6031D28 + YORX090**	**RCDX6031D28 + YORX090**
#30 solid	Mono crimp	–	0.025"	0.64	–	–	–	–	–	**RMDX6015D28 + YORX090**	**RCDX6015D28 + YORX090**
#26 7/.0063	Mono crimp	26	0.028"	0.71	7/.063	0.006"	0.16	–	–	**RMDX6031D28 + YORX090**	**RCDX6031D28 + YORX090**
#26 19/.004	Mono crimp	26	0.049"	1.24	19/.004	–	–	–	–	**RMDX6019D28 + YORX090**	**RCDX6019D28 + YORX090**
#24 7/.008	Mono crimp	24	0.049"	1.24	7/.008	–	–	–	–	**RMDX6019D28 + YORX090**	**RCDX6019D28 + YORX090**
#24 19/.005	Mono crimp	24	0.057"	1.45	19/.005	–	–	–	–	**RMDX6019D28 + YORX090**	**RCDX6019D28 + YORX090**
–	Mono crimp	26	–	1.25	–	–	–	0.748"x 0.004"	19x0.1	**RMDX6019D28 + YORX090**	**RCDX6019D28 + YORX090**
–	Mono crimp	24	–	1.25	–	–	–	0.275"x 0.007"	7x0.2	**RMDX6019D28 + YORX090**	**RCDX6019D28 + YORX090**
–	Mono crimp	24	–	1.45	–	–	–	0.748"x 0.005"	19x0.13	**RMDX6019D28 + YORX090**	**RCDX6019D28 + YORX090**
–	Mono crimp	26	–	0.7	–	–	–	0.275"x 0.006"	7x0.16	**RMDX6031D28 + YORX090**	**RCDX6031D28 + YORX090**

PCB contacts supplied separately - UTSX standard series

PCB soldering

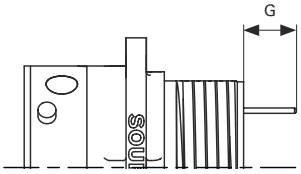


The UTSX series can be used in a wave soldering process but not reflow soldering process.

All high temperature processes are prohibited.

Contact size	Type	Part number Male	Female	Plating see Page 126
#20 Ø 0.039" (1)	Short version	**RMW50A7K**	**RCW50A7K**	K
	Long version	**RMW5016K**	**RCW5016K**	K
#16 Ø 0.062" (1.6)	Short version	**RM20M12E8K**	**RC20M12E8K**	K
	Long version	**RM20M12E83K**	**RC20M12E83K**	K
	Long version	**RM20M12E83K**	**RC20M12E84K**	K
#8 Ø 0.141" (3.6)	–	**82911685NPC**	**82911684NPC**	2 µm Ni
	–	**82911685NAPC**	**82911684NAPC**	3 µm Ag

Minimal length G



Dimension of dipsolder contacts out of connector (contacts to be ordered separately).

UTSX0 with PCB contacts #16

	Pin contact RM20M 12E8K*		RM20M 12E84K*		RM20M 12E84K*		Socket contact RC20M 12E8K*		RC20M 12E83K*		RC20M 12E84K*		RC20M 12E87K*	
Connector size	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**
10	0.165"	4.2	0.370"	9.4	0.507"	12.9	0.165"	4.2	0.370"	9.4	0.507"	12.9	0.255"	6.5
12	0.141"	3.6	0.346"	8.8	0.484"	12.3	0.165"	4.2	0.370"	9.4	0.507"	12.9	0.255"	6.5
14	0.129"	3.3	0.334"	8.5	0.472"	12.0	0.102"	2.6	0.307"	7.8	0.444"	11.3	0.192"	4.9
16	0.161"	4.1	0.362"	9.2	0.488"	12.4	0.126"	3.2	0.331"	8.4	0.469"	11.9	0.217"	5.5
18	0.161"	4.1	0.362"	9.2	0.488"	12.4	0.126"	3.2	0.331"	8.4	0.469"	11.9	0.217"	5.5

UTSX7 with PCB contacts #20 and #16

	Pin contact RM20M 12E83K*		RM20M 12E84K*		RMW 50A7K*		RMW 5016K*		Socket contact RC20M 12E84K*		RCW 50A7K*		RCW 5016K*	
Connector size	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**
10	0.287"	7.3	0.425"	10.8	0.330"	8.4	0.366"	9.3	0.141"	3.6	0.330"	8.4	0.366"	9.3
12	0.287"	7.3	0.425"	10.8	0.330"	8.4	0.366"	9.3	0.153"	3.9	0.330"	8.4	0.366"	9.3
14	0.287"	7.3	0.425"	10.8	0.330"	8.4	0.366"	9.3	0.141"	3.6	–	–	–	–
16	**0.362"**	**9.2**	**0.488"**	**12.4**	**0.358"**	**9.1**	**0.394"**	**10.0**	**0.181"**	**4.6**	–	–	–	–
18	**0.362"**	**9.2**	**0.488"**	**12.4**	**0.358"**	**9.1**	**0.394"**	**10.0**	**0.181"**	**4.6**	–	–	–	–

* Plating indication see **Page 199**

UTSX7 with PCB contacts #16 and #8

	Pin contact RM20M12E83K*		82911685NPC*		Socket contact RC20M12E87K*		82911684NPC*	
Connector size	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**
UTSX7142G1P	–	–	0.251"	6.4	–	–	–	–
UTSX7142G1S	–	–	–	–	–	–	0.322"	8.2

* Plating indication see **Page 199**

PCB contacts loaded - UTSX sealed unmated series

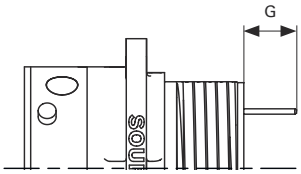
PCB soldering

The UTSX series can be used in a wave soldering process, but not reflow soldering process.

All high temperature processes are prohibited.

Minimal length G

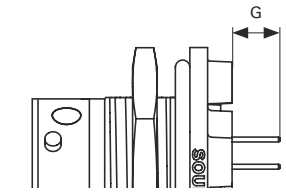
Dimension of dipsolder contacts out of connector (contacts to be ordered separately).



UTSX0

UTSX0

		Pin contact G min		G max		Socket contact G min		G max	
Connector size	Connector part number	inch	mm	inch	mm	inch	mm	inch	mm
10	10D6 - 10D98 - 10D7	0.318"	8.1	0.401"	10.2	0.318"	8.1	0.405"	10.3
12	12D2 - 12D3 - 12D8 - 12D10	0.318"	8.1	0.401"	10.2	0.318"	8.1	0.405"	10.3
	12D4	0.322"	8.2	0.393"	10	0.318"	8.1	0.405"	10.3
	12D14	0.283"	7.2	0.354"	9	0.279"	7.1	0.362"	9.2
14	14D5 - 14D12 - 14D15 14D18 - 14D19	0.318"	8.1	0.401"	10.2	0.318"	8.1	0.405"	10.3
	14D7	0.322"	8.2	0.393"	10	0.318"	8.1	0.405"	10.3
16	16D8 - 16D23 - 16D26	0.189"	4.8	0.275"	7.0	0.189"	4.8	0.275"	7.0
18	18D11 - 18D30 - 18D32	0.189"	4.8	0.275"	7.0	0.189"	4.8	0.275"	7.0



UTSX7

UTSX7

Connector		Pin contact G min		G max		Socket contact G min		G max	
size	Connector part number	inch	mm	inch	mm	inch	mm	inch	mm
10	10D6 - 10D98 - 10D7	0.185"	4.7	0.287"	7.3	0.185"	4.7	0.275"	7
12	12D2 - 12D3 - 12D8 - 12D10	0.185"	4.7	0.287"	7.3	0.188"	4.8	0.275"	7
	12D4	0.192"	4.9	0.279"	7.1	0.188"	4.8	0.275"	7
	12D14	0.153"	3.9	0.244"	6.2	0.149"	3.8	0.236"	6
14	14D5 - 14D12 - 14D15 14D18 - 14D19	0.188"	4.8	0.287"	7.3	0.192"	4.9	0.275"	7
	14D7	0.192"	4.9	0.279"	7.1	0.192"	4.9	0.275"	7
16	16D8 - 16D23 - 16D26	0.189"	4.8	0.275"	7.0	0.189"	4.8	0.275"	7.0
18	18D11 - 18D30 - 18D32	0.189"	4.8	0.275"	7.0	0.189"	4.8	0.275"	7.0

Size 16 fiber optic contacts for UTSX and other TRIM TRIO® connectors

POF



Description

Size 16 fiber optic contacts are designed for the integration of optical links in UTSX and other TRIM TRIO® cable connectors.

The fiber optic contacts are designed to accommodate:

- Plastic optical fiber (POF) 0.039" (1) core and 0.086" (2.2) jacket

Typical features and benefits are:

- Socket contact is spring loaded to avoid any air gap between the two optical faces.
- High precision pieces provide low insertion loss.
- We can provide custom harness solutions for specific customer requirements including single jumpers, multiways harness and and active device housings.

Technical specifications

Performance

- Fiber type: POF
- Wave length: 650 nm
- Optical insertion loss (typ.): 2 dB max.
- Jacketed external diameter: 0.086" (2.2)
- Temperature range: -25°C to +70°C
- Cable retention: 49N
- Mating cycles without cleaning: 48
- Max. mating cycles: 500

Construction

- Contact body: copper alloy

Connector accommodation

Any TRIM TRIO® size 16 contact can be used in any contact position in any connector in the TRIM TRIO® size 16 interconnection system: UTP, UTGX, UTS, UTSX, UTO and UTL.

Ordering information

Plastic optical fiber contact

Male contact	Female contact
RMPOF1000	–

Plastic optical fiber tools

Standard tooling kit - P/N 80MS0004

The standard tooling kit is made of the part numbers below that can be ordered separately as well.

Part number	Descriptions
80WD0005	Stripping tool
80WD0025	Automatic stripping tool for Ø 0.196" (0.5), 0.023" (0.6), 0.027" (0.7) and 0.149" (3.8)
80WM0006	Ruler
80WP0005	Polishing plate
80WP0013	Non slip base (to hold the polishing plate)
80WP0014	Polishing disk (grain size 9µm)
80WP0018	Polishing tool
80WP0019	Polishing disk (grain size 30µm)
80WS0002	Crimping plier

Specific tooling list - Can only be ordered separately

Part number	Descriptions
80WG0010	Needle
80WG0015	Capsule
80WG0016	Syringe
80WN0005	Dry air spray
80WN0006	Optical paper
80WN0012	Dropper bottle
80WN0008	Wiping solvent

Crimping tools for standard contacts

Contact size	Part number	Head*	Handles*	Extraction tools
#20 Ø 0.039" (1)	RM/RC 24W3K	**S20RCM**	**SHANDLES**	**RX20D44**
	RM/RC 20W3K	**S20RCM**	**SHANDLES**	**RX20D44**
	RM/RC 18W3K	**S20RCM**	**SHANDLES**	**RX20D44**
	SM 24WL3S*(1) SC 24WL3S*(1)	**S20SCM20**	**SHANDLES**	**RX20D44**
	SM/SC 20WL3S*(1)	**S20SCM20**	**SHANDLES**	**RX20D44**
#16 Ø 0.062" (1.6)	RM/RC 28M1*	**S16RCM20**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	RM/RC 24M9*	**S16RCM20**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	RM/RC 20M13*	**S16RCM20**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	RM/RC 20M12*	**S16RCM20**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	RM/RC 16M23*	**S16RCM16**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	RM/RC 14M30*	**S16RCM14**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	SM/SC 24ML1*(1)	**S16SCM20**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	SM/SC 20ML1*(1)	**S16SCM20**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	SM/SC 16ML1*(1)	**S16SCML1**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	SM/SC 14ML1*(1)	**S16SCML1**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**
	SM/SC 16ML11*(1)	**S16SCML11**	**SHANDLES**	**RX2025GE1 or RX2031J long endurance tool**

(1) loose contact
*endurance of SHANDLES and Head tools = 48,000 cycles

Contact size	Part number	Tool with separate locator Hand tool	Positioner + locator setting		Extraction tools
#12 Ø 0.094" (2.4)	82911457N* / 82911456*	**M317**	**VGE10077A**	**1/2**	**51060210924**
	82911459N* / 82911458*	**M317**	**VGE10077A**	**2**	**51060210924**
	82911461N* / 82911460*	**M317**	**VGE10077A**	**2**	**51060210924**
	82911463N* / 82911462*	**M317**	**VGE10077A**	**3**	**51060210924**
	82911465N* / 82911464*	**M317**	**VGE10077A**	**3**	**51060210924**
	82911467N* / 82911466*	**M317**	**VGE10077A**	**4**	**51060210924**
#8 Ø 0.141" (3.6)	82913601A / 82913600A	**M317**	**VGE10078A**	**3**	**51060210936**
	82913603A / 82913602A	**M317**	**VGE10078A**	**3**	**51060210936**
	82913605A / 82913604A	**M317**	**VGE10078A**	**4**	**51060210936**
	82913607A / 82913606A	**M317**	**VGE10078A**	**5**	**51060210936**
	82913609A / 82913608A	**M317**	**VGE10078A**	**6/7**	**51060210936**

* see **Page 199** for plating options and other contact details

Crimping tools for specific contacts (First mate, last break contacts)

Contact size	Part number*	Hand tools (SHANDLES) Head	Tool with separate locator Hand tool	Positioner + locator setting		Extraction tools
#16 Ø 0.094" (1.6) Longer RM contact	RM28M1GE1K	**S16RCM20**	**MH860**	**MH86186**	4/6	**RX2025GE1 or RX2031J long endurance tool**
	RM24M9GE1K	**S16RCM20**	**MH860**	**MH86186**	5/6	**RX2025GE1 or RX2031J long endurance tool**
	RM16M23GE1K RM20M12GE1K	**S16RCM16**	**MH860**	**MH86186**	6/8	**RX2025GE1 or RX2031J long endurance tool**
	RM14M30GE1K	**S16RCM14**	**M317**	**UH25**	3	**RX2025GE1 or RX2031J long endurance tool**
#16 Ø 0.094" (1.6) Shorter RC contact	RC28M1GE7K	**S16RCM20**	**MH860**	**MH86164G**	4/6	**RX2025GE1 or RX2031J long endurance tool**
	RC24M9GE7K	**S16RCM20**	**MH860**	**MH86164G**	5/6	**RX2025GE1 or RX2031J long endurance tool**
	RC20M13GE7K RC20M12GE7K	**S16RCM20**	**MH860**	**MH86164G**	5/7	**RX2025GE1 or RX2031J long endurance tool**
	RC16M23GE7K	**S16RCM16**	**MH860**	**MH86164G**	6/8	**RX2025GE1 or RX2031J long endurance tool**
	RC14M30GE7K	**S16RCM14**	**M317**	**UH25**	3	**RX2025GE1 or RX2031J long endurance tool**

* see **Page 202** for plating options and other contact details

Coaxial contacts

Please consult us.

M20S-1J crimp tool

	Contact part number				M20S-1J			
Contact size	Pin	Socket	Cable type	Notes	Die	Stop bushing	Die kit (die + stop bushing)	PG check-gauge for die
#16 (Ø 1.6mm)	RM28M1*	RC28M1*	AWG 30-28	N/A	S-9K 1	SL-40K	N/A	PG-246-1K
	RM24M9*	RC24M9*	AWG 24	N/A	S-9K 1	SL-40K	N/A	PG-246-1K
	RM24M9*	RCS24M9*	AWG 24	N/A	S-10K	SL-40K	N/A	PG-246K
	RM20M14*	RC20M14*	AWG 22-20	N/A	S-10JK	SL-40K	N/A	PG-246K
	RM20M14*	RCS20M14*	AWG 22-20	N/A	S-10JK	SL-40K	N/A	PG-246K
	RM20M13*	RC20M13*	AWG 22-20	N/A	S-10K	SL-40K	N/A	PG-246K
	RM20M13*	RCS20M13*	AWG 22-20	N/A	S-10K	SL-40K	N/A	PG-246K
	RM20M12*	RC20M12*	AWG 22-20	N/A	S-10K	SL-40K	N/A	PG-246K
	RM20M12*	RCS20M12*	AWG 22-20	N/A	S-10K	SL-40K	N/A	PG-246K
	RM16M23*	RC16M23*	AWG 20-16	N/A	S-3D1K	SL-39K	N/A	PG-214K
	RM16M23*	RCS16M23*	AWG 20-16	N/A	S-3D1K	SL-40K	N/A	PG-214K
	RM14M50*	RC14M50*	AWG 16-14	N/A	S-3-14K	SL-40K	N/A	PG-246-2K
	RM14M50*	RCS14M50*	AWG 16-14	N/A	S-3-14K	SL-40K	N/A	PG-246-2K
	RM14M30*	RC14M30*	AWG 14	N/A	N/A			
	RMDXK-1JG, ((S)YOC-074J RFD26L-1D28 RMDX60-2D28) RMDXK-1JG, ((S)YOC-074J RFD26L-1D28 RMDX60-2D28) RMDXK-1JG, ((S)YOC-074J RFD26L-1D28 RMDX60-2D28)	RCDXK-1JG ((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28)	RG161/U, RG179B/U, RG187A/U	INNER CONTACT (RFD26L-1D28/((S)RM-D26L-1JD28,)	S-23D2	SL-46D2K	N/A	PG-266
		RCDXK-1JG ((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28)	RG161/U, RG179B/U, RG187A/U	OUTER CONTACT (RM-DX602D28/RCDX602D28)	S-68J	SL-92K	N/A	PG-297
		RCDXK-1JG ((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28)	RG174/U, RG188A/U	INNER CONTACT (RFD26L-1D28/((S)RM-D26L-1JD28,)	S-26D2	SL-46D2K	N/A	N/A
		RCDXK-1JG ((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28)	RG174/U, RG188A/U	OUTER CONTACT (RM-DX602D28/RCDX602D28)	S-68J	SL-92K	N/A	PG-297
	RMDXK-10 ((S)YOC-074J, RFD26L-1D28, RMDX60-2D28, RMDXB055-3)	RCDXK-1((S)RM-D26L-1JD28, (S) YOC-074J, RCDX60-2D28, RCDXB055-1)	RG178B/U, RG196A/U	INNER CONTACT (RFD26L-1D28/((S)RM-D26L-1JD28,)	S-23D2	SL-46D2K	N/A	PG-266
		RCDXK-1((S)RM-D26L-1JD28, (S) YOC-074J, RCDX60-2D28, RCDXB055-1)	RG178B/U, RG196A/U	OUTER CONTACT (RM-DX602D28/RCDX602D28)	S-68J	SL-92K	N/A	PG-297
	RMDXK-J20	RCDXK-J2	#26 twist pair 2-7/0.16, #24 twist pair 2-7/0.2, 2-1/0.5	INNER CONTACT	S-26D2	SL-46D2K	N/A	N/A
	RMDXK-J20	RCDXK-J2	#26 twist pair 2-7/0.16, #24 twist pair 2-7/0.2, 2-1/0.5	OUTER CONTACT	S-68J	SL-92K	N/A	PG-297
	RMDX6032D28	RCDX6032D28	see **Page 167**	MONOCRIMP	S-80J	SL-105K	N/A	N/A
	RMDX6036D28	RMDX6036D28	see **Page 167**	MONOCRIMP	S-80J	SL-105K	N/A	N/A
	RMDXK10D28	RCDXK1D28	RG161U, RG179, RG187U, RG178A/U, RG196U	INNNER CONTACT	S-23D2	SL-46D2K	N/A	N/A
	RMDXK10D28	RCDXK1D28	RG161U, RG179, RG187U, RG178A/U, RG196U	OUTER CONTACT	S-22-1J	SL-47-1J	N/A	N/A
	RMDXK10D28	RCDXK1D28	RG188/U, RG174/U	INNNER CONTACT	S-26D2	SL-46D2K	N/A	N/A
	RMDXK10D28	RCDXK1D28	RG188/U, RG174/U	OUTER CONTACT	S-22-1J	SL-47-1J	N/A	N/A
#12 (Ø2.4mm)	82911459N*	82911458*	AWG 20	N/A	N/A		S8291-2AKIT	PG-8291-2K
	82911461N*	82911460*	AWG 18	N/A	N/A		S8291-2AKIT	PG-8291-2K
	82911463N*	82911462*	AWG 16	N/A	N/A		S8291-3AKIT	PG-8291-3K
	82911465N*	82911464*	AWG 14	N/A	N/A		S8291-3AKIT	PG-8291-3K
	82911467N*	82911466*	AWG 12	N/A	N/A		S8291-4AKIT	PG-8291-4K
	82911467N*	82911466*	AWG 12	N/A	N/A		S8291-4AKIT	PG-8291-4K
#8 (Ø3.6mm)	82913601A	82913600A	AWG 16	N/A	N/A		S8291-3BKIT	PG-8291-3K
	82913603A	82913602A	AWG 14	N/A	N/A		S8291-3BKIT	PG-8291-3K
	82913605A	82913604A	AWG 12	N/A	N/A		S8291-4BKIT	PG-8291-4K
	82913607A	82913606A	AWG 10	N/A	N/A		S8291-5BKIT	PG-8291-5K

1. When crimping RC/RCS/RM24-9* if the insulator diameter is smaller than 1.4mm, use S-9 or S-9K

Souriau UTSX series

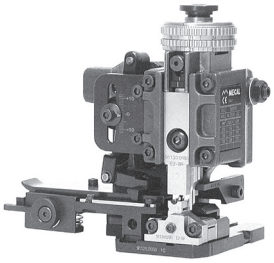
Tooling

Automatic crimping tools

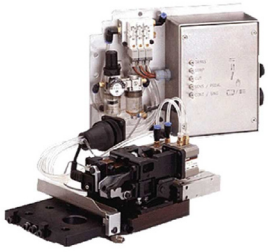
Contact Mecal for semi-automatic production tools.

Mecal sales network:

www.mecal.net



Min Applicator



Stripper



Presses

Extraction tool



RX20D44



51060210924



RX2031J



RX2025GE1



51060210936

Contact size	Part number
#20	**RX20D44**
#16	**RX2025GE1**
#16 Long endurance tool	**RX2031J**
#12	**51060210924**
#8	**51060210936**

Contact extraction instruction



Place the tool into the cavity from front face of the connector, push on the handle, then remove the contact.

Wire stripping crimp version

Machined contact



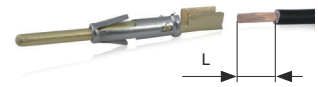
Contact size	Part number Male	Female	Stripping length L inch	mm
#20 Ø 0.039"(1)	RM24W3- / RM20W3- RM18W3-	RC24W3- / RC20W3- RC18W3-	0.188"	4.8
#16 Ø 0.062"(1.6)	RM28M1- / RM24M9- RM20M13- / RM20M12-	RC28M1- / RC24M9- RC20M13- / RC20M12-	0.188"	4.8
	RM16M23- /RM14M30-	RC16M23- /RC14M30-	0.279"	7.1
#8 Ø 0.141"(3.6)	82913601- / 82913603- 82913605- / 82913607-82913609-	82913600- / 82913602-82913604- / 82913606- 82913608-	0.255" to 0.295"	6.5 to 7.5

Stamped and formed with insulation support



Contact size	Part number Male	Female	Stripping length L inch	mm
#20 Ø 0.039"(1)	SM24W3- / SM24WL3- SM20W3- / SM20WL3-	SC24W3- / SC24WL3- SC20W3- / SC20WL3-	0.157"	4
#16 Ø 0.062"(1.6)	SM24M1- / SM24ML1- SM20M1- / SM20ML1-	SC24M1- / SC24ML1- SC20M1- / SC20ML1-	0.157"	4
	SM16M11- / SM16ML11-	SC16M11- / SC16ML11-	0.183"	4.65

Stamped and formed without insulation support



Contact size	Part number Male	Female	Stripping length L inch	mm
#16 Ø 0.062"(1.6)	SM16M1- / SM16ML1-	SC16M1- / SC16ML1-	0.250"	6.35
	SM14M1- / SM14ML1-	SC14M1- / SC14ML1-	0.250"	6.35

Power contacts

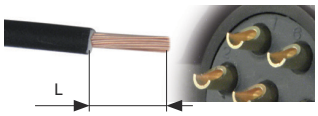


Contact size	Part number Male	Female	Stripping length L inch	mm
#12 Ø 0.094" (2.4)	82911457- / 82911459-82911461- / 82911463-82911465- / 82911467-	82911456- / 82911458-82911460- / 82911462-82911464- / 82911466-	0.275" to 0.314"	7 to 8
#8 Ø 0.141"(3.6)	82913601- / 82913603-82913605- / 82913607-82913609-	82913600- / 82913602-82913604- / 82913606-82913608-	0.255" to 0.295"	6.5 to 7.5

Note: See **Page 199** for plating options and other contact details

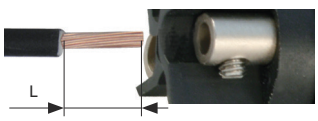
Wire stripping solder and screw versions

Solder contact delivered with connector



Contact size	Stripping length L inch	mm
#16 / Ø 0.062" (1.6) and #20 / Ø 0.039" (1)	0.196"	5

Screw contact delivered with connector



Contact size	Stripping length L inch	mm
#16 / Ø 0.062" (1.6)	0.228"	5.8

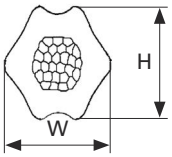
Dimensions in inches (millimeters)

Crimping

One of the key factors which affects the performance of a connector is the way contacts are terminated. Crimped connections are nowadays seen as the best solution to ensure quality throughout the lifetime of the product.



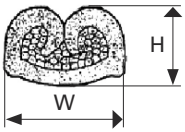
Machined contact





Stamped and formed contact





Active contact part	Contact type	Die location on heads	Wire section range	Section inch²	Section mm²	Tensile straight test (min)	Height W ±0.002″ (±0.075) inch	Height W ±0.002″ (±0.075) mm	Width W ±0.002″ (±0.075) inch	Width W ±0.002″ (±0.075) mm	Tooling head part number
Machined contacts size #20 Ø 0.039″ (1)	**RM24W3K RC24W3K**	26/24	26 AWG	0.004″ min	0.12 min	15 N	0.037″	0.95	0.05″	1.27	**S20RCM**
		26/24	24 AWG	0.009″ max	0.25 max	32 N	0.037″	0.95	0.05″	1.27	**S20RCM**
	RM20W3K RC20W3K	22/20	22 AWG	0.012″ min	0.32 min	40 N	0.049″	1.26	0.070″	1.78	**S20RCM**
			20 AWG	0.019″ max	0.50 max	60 N	0.049″	1.26	0.070″	1.78	**S20RCM**
	RM18W3K RC18W3K	20/18	20 AWG	0.019″ max	0.50 max	60 N	0.053″	1.35	0.073″	1.86	**S20RCM**
			18 AWG	0.032″ max	0.82 max	90 N	0.053″	1.35	0.073″	1.86	**S20RCM**
S and F contacts size #20 Ø 0.039″ (1)	**SM24WL3TK6* SC24WL3TK6***	26/24	26 AWG	0.004″ min	0.12 min	15 N	0.031″	0.80	0.058″	1.49	**S20SCM20**
		26/24	24 AWG	0.009″ max	0.25 max	32 N	0.031″	0.80	0.058″	1.49	**S20SCM20**
	SM20WL3TK6* SC20WL3TK6*	22/20	22 AWG	0.012″ min	0.32 min	40 N	0.039″	1.01	0.060″	1.53	**S20SCM20**
		22/20	20 AWG	0.019″ max	0.50 max	60 N	0.039″	1.01	0.060″	1.53	**S20SCM20**
Machined contacts size #16 Ø 0.062″ (1.6)	**RM28M1K* RC28M1K***	30/28	30 AWG	0.002″ min	0.05 min	11 N	0.044″	1.14	0.055″	1.41	**S16RCM20**
		30/28	28 AWG	0.003″ max	0.08 max	6 N	0.044″	1.14	0.055″	1.41	**S16RCM20**
	RM24M9K* RC24M9K*	26/24	26 AWG	0.004″ min	0.12 min	15 N	0.045″	1.15	0.055″	1.41	**S16RCM20**
		26/24	24 AWG	0.009″ max	0.25 max	32 N	0.045″	1.15	0.055″	1.41	**S16RCM20**
	RM20M13K* RC20M13K*	22/20	22 AWG	0.012″ min	0.32 min	40 N	0.049″	1.26	0.069″	1.76	**S16RCM20**
		22/20	20 AWG	0.019″ max	0.50 max	60 N	0.049″	1.26	0.069″	1.76	**S16RCM20**
	RM20M12K* RC20M12K*	22/20	22 AWG	0.012″ min	0.32 min	40 N	0.049″	1.26	0.069″	1.76	**S16RCM20**
		22/20	20 AWG	0.019″ max	0.50 max	60 N	0.049″	1.26	0.069″	1.76	**S16RCM20**
	RM16M23K* RC16M23K*	18	18 AWG	0.032″ max	0.82 max	90 N	0.070″	1.80	0.089″	2.28	**S16RCM16**
		16	16 AWG	0.059″ max	1.50 max	150 N	0.077″	1.96	0.095″	2.43	**S16RCM16**
	RM14M30K* RC14M30K*	16	16 AWG	0.059″ min	1.50 min	150 N	0.082″	2.10	0.105″	2.68	**S16RCM14**
		14	14 AWG	0.098″ min	2.50 min	230 N	2.3	2.30	0.109″	2.78	**S16RCM14**
S and F contacts size #16 Ø 0.062″ (1.6)	**SM24ML1TK6* SC24ML1TK6***	26/24	26 AWG	0.004″ min	0.12 min	15 N	0.033″	0.84	0.059″	1.50	**S16SCM20**
		26/24	24 AWG	0.009″ max	0.25 max	32 N	0.033″	0.84	0.059″	1.50	**S16SCM20**
	SM20ML1TK6* SC20ML1TK6*	22/20	22 AWG	0.012″ min	0.32 min	40 N	0.040″	1.02	0.060″	1.54	**S16SCM20**
		22/20	20 AWG	0.019″ max	0.50 max	60 N	0.040″	1.02	0.060″	1.54	**S16SCM20**
	SM16ML11TK6* SC16ML11TK6*	18	18 AWG	0.032″ min	0.82 min	90 N	0.051″	1.32	0.082″	2.09	**S16SCML11**
		16	16 AWG	0.059″ max	1.50 max	150 N	0.053″	1.36	0.082″	2.10	**S16SCML11**
	SM16ML1TK6* SC16ML1TK6*	18	18 AWG	0.032″ min	0.82 min	90 N	0.058″	1.149	0.079″	2.02	**S16SCML1**
		16	16 AWG	0.059″ max	1.50 max	150 N	0.066″	1.70	0.080″	2.05	**S16SCML1**
	SM14ML1TK6* SC14ML1TK6*	14	14 AWG	0.098″ max	2.50 max	230 N	0.070″	1.79	0.101″	2.58	**S16SCML1**

* example of plating, for other plating see **Page 127**

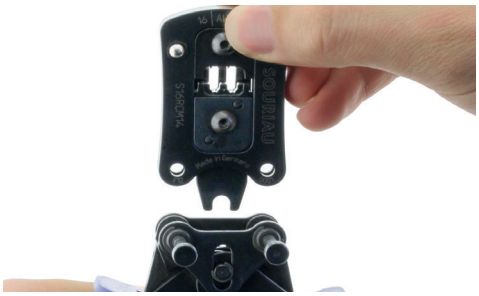
Note: Assembly operations mentioned above shall not interfere with or be in contradiction with the IPC-WHMA-A-620B

Dimensions in inches (millimeters)

Crimping tooling



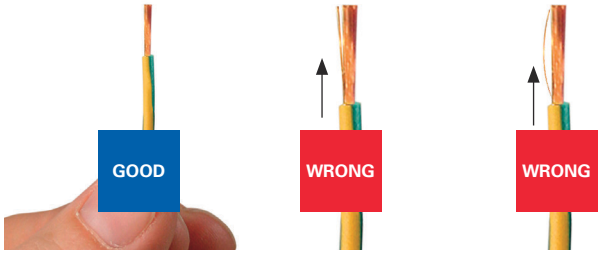
1) Fully close then release the tool, keep it open. Open the two pins.



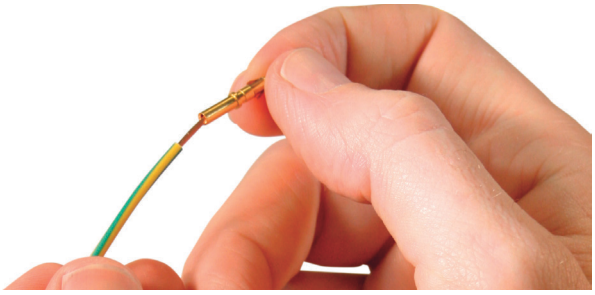
2) Choose the adapter head (sold separately). Keep vertical and slide it into the handle until the mechanical stop.



3) Close the two pins simultaneously to maintain the head.



4) Strip the cable properly by checking the recommended size in the catalog on Page 212.



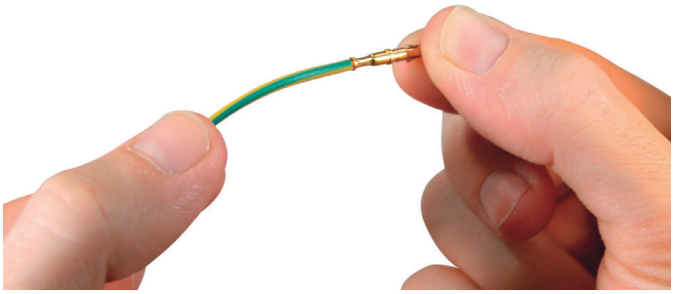
5) Place conductors, with no deterioration, in the contact bucket. All strands to be located in the crimp bucket.



6) Position the contact in the bottom of the tool by checking its orientation. Maintain the wire in position.



7) Tighten the handles to the end of the mechanism (max 175 N). After handles are opened, extract the contact.



8) Control the quality of crimping (see Page 213).

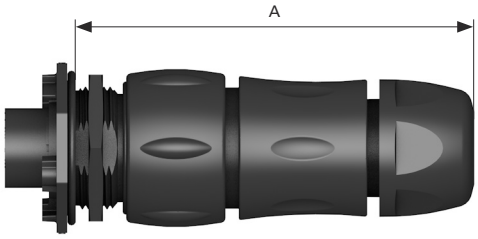
Note: Assembly operations mentioned above shall not interfere or to be in contradiction with the IPC-WHMA-A-620B

Souriau UTSX series

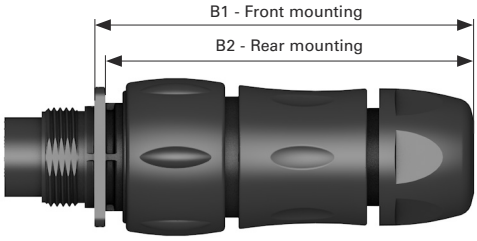
Dimensions

Mated connector lengths

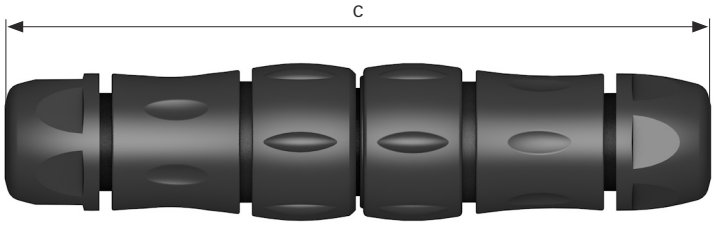
UTSX7 + UTSX6JC



UTSX0 + UTSX6JC



UTSX1JC + UTSX6JC

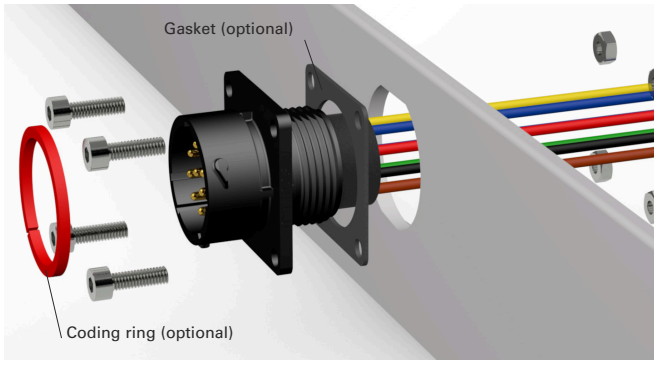


	UTSX7 + UTSX-6JC A max		UTSX0 + UTSX-6JC B1 max		B2 max		UTSX1JC + UTSX6JC C max	
Shell size	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**
10	2.992″	74	2.836″	72	2.736″	69.5	5.196″	132
12	3.110″	79	2.952″	75	2.874″	73	5.433″	138
14	3.366″	85.5	3.208″	81.5	3.110″	79	5.925″	150.5
16	3.661"	93	3.464"	88	3.386"	86	6.457"	164
18	3.858"	98	3.701"	94	3.622"	92	6.850"	174

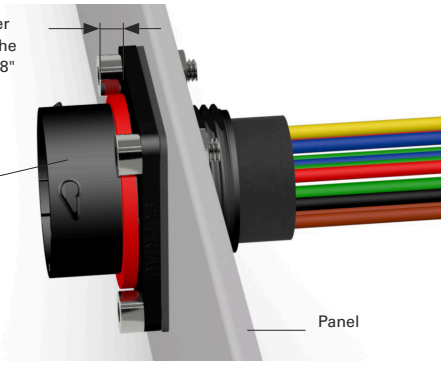
UTSX0 or UTSX0JC assembly (mounting suggestion)

- Strip wires, crimp or solder contacts (see **Pages 212 and 213**)
- Insert contacts into connector cavities (insert manually or use tool RTM205 crimp contacts)
- Place receptacle in the panel cut-out
- Secure receptacle with screws (not supplied)
- Tighten screws: M2.5 (recommended torque: see table below)
- Warning: to prevent any mating issue with the plug counterpart, take into account the following dimensions of screw heads and panel thickness
- For complete sealing of the system use optional gasket and sealed screw solution (not sold by Eaton).

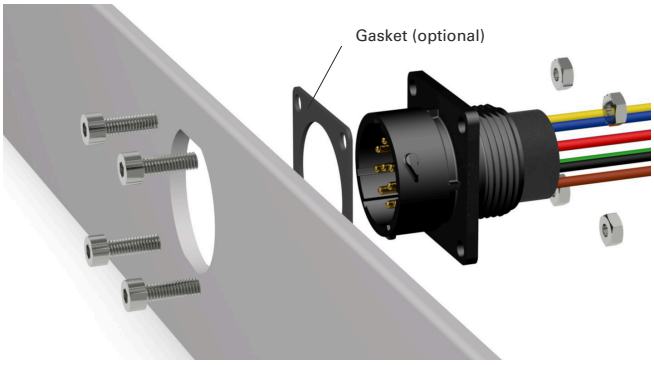
Front mounting



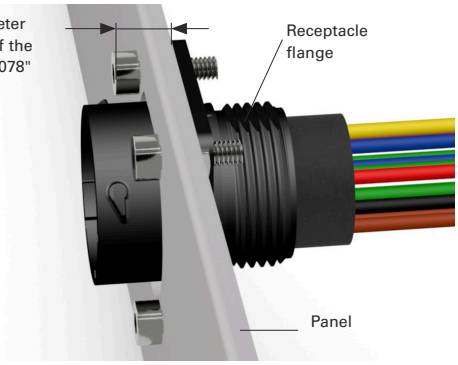
A large screw head diameter may be limit the height of the screw head: >Ø 0,157"x0,078" (4.5x2.5) max



Rear mounting

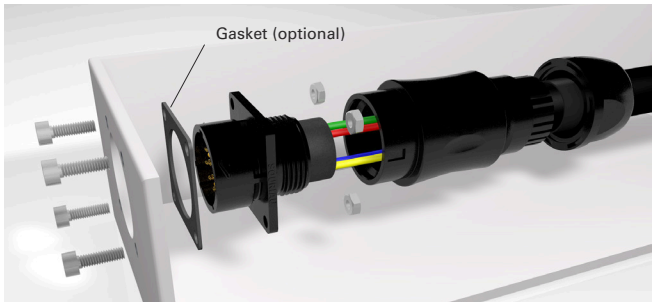


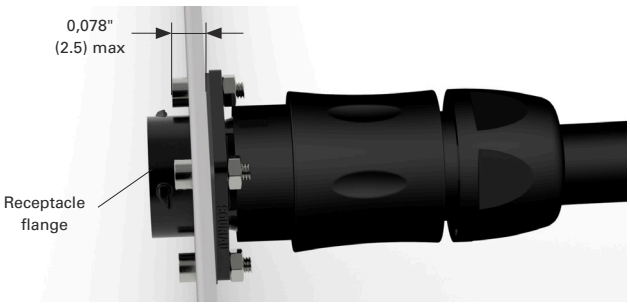
A large screw head diameter may be limit the height of the screw head: >Ø 0,157"x0,078" (4.5x2.5) max



Shell size	Screw tightening torque (Nm)
10	0.30/0.40
12	0.30/0.40
14	0.30/0.40
16	0.30 / 0.40
18	0.35 / 0.45

UTSX0JC rear mounting





Dimensions in inches (millimeters)

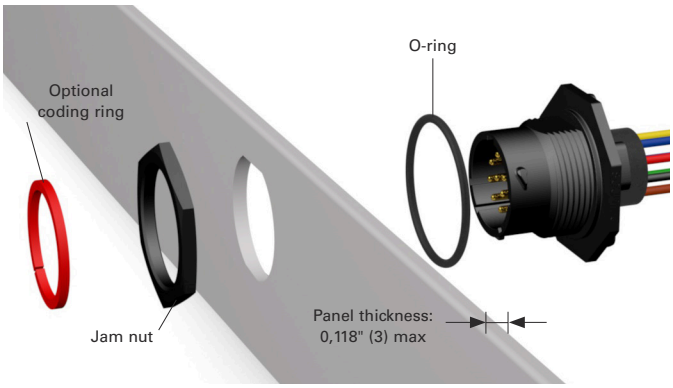
Souriau UTSX series

Assembly instructions

UTSX7 assembly (mounting suggestion)

- Strip wires and crimp contacts (see **Pages 212 and 213**)
- Insert contacts into connector cavities (insert manually or use tool RTM205 crimp contacts)
- Seat o-ring, place receptacle in the panel cut-out
- Tighten jam nut

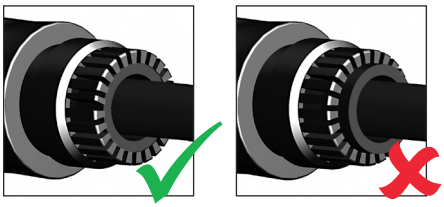
Crimp or solder version



Shell size	Jam nut torque (Nm) max	Exterior jam nut dim. inch	Exterior jam nut dim. mm	Ø Wire Standard version max inch	Ø Wire Standard version max mm	Discrete wire sealing inch	Discrete wire sealing mm
10	3	0.874"	20.2	1.125"	3.2	From 0.066" to 0.118"	From 1.7 to 3.0
12	4	1.062"	27.0	1.125"	3.2		
14	5	1.185"	30.1	1.125"	3.2		
16	5	1.311"	33.3	1.125"	3.2		
18	5	1.438"	36.5	1.125"	3.2		

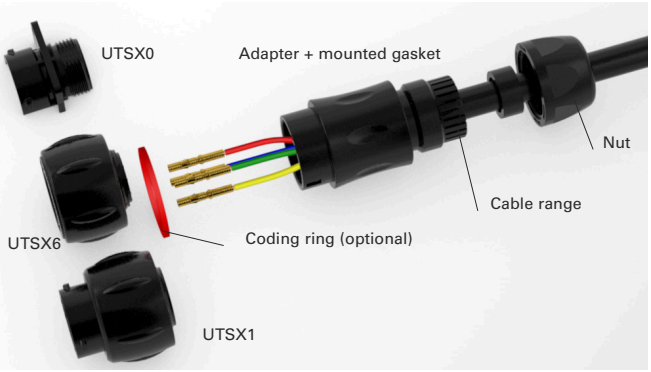
UTSX0JC, UTSX1JC or UTSX6JC assembly: crimp version

- Slide accessories onto the cable

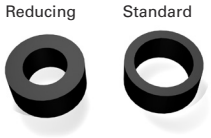


Make sure the seal is positioned as shown.

- Mate the plug with a corresponding counter part
- Strip external cable jacket
- Strip wires and crimp contacts (see **Pages 140 and 141**)
- Insert contacts into connector cavities (insert manually or use tool RTM205)
- Tighten adapter with plug UTSX6 or receptacle UTSX1, choose right seal (waste the other seal)
- Tighten the nut to rear of either UTSX1 or UTSX6 (recommended torque values to be applied according to table below)
- Caution: only one of the two gaskets included should be used!



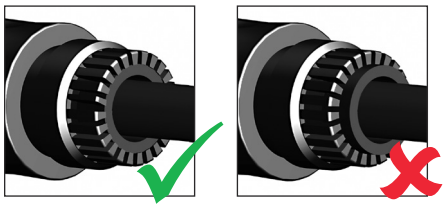
Cable ranges



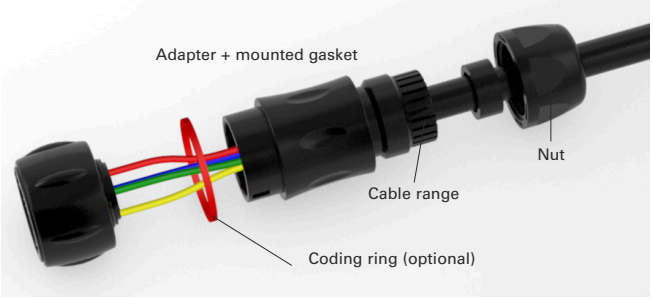
Shell size	Recommended jacket strip length Male inch	Male mm	Female inch	Female mm	Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal inch	Ø Cable range Standard seal mm	Ø Cable range Reducing seal inch	Ø Cable range Reducing seal mm	Ø Wire inch	Ø Wire mm
10	0.826"	21	1.141"	29	1.5	1	0.098"/0.314"	2.5/8.0	0.059"/0.196"	1.5/5.0		
12	0.984"	25	1.299"	33	2.5	2	0.196"/0.472"	5.0/12.0	0.118"/0.354"	3.0/9.0	From 0.066" to 0.118"	From 1.7 to 3.0
14	1.141"	29	1.417"	36	3	2.5	0.275"/0.551"	7.0/14.0	0.196"/0.472"	5.0/12.0		
16	1.259"	32	1.574"	40	2	3.5	0.472" /0.630"	12.0/16.0	0.354" /0.472"	9.0/12.0		
18	1.259"	32	1.574"	40	2.5	3.5	0.512" /0.709"	13.0/18.0	0.433" /0.590"	11.0/15.0		

UTSX6JC assembly: solder version

- Slide accessories onto the cable



Make sure the seal is positioned as shown.



- Mate the plug with a corresponding receptacle
- Strip external cable jacket (see **Pages 212 and 213**)
- Solder contacts
- Tighten adapter with plug, choose right seal (waste the other seal)
- Tighten the nut to rear of either UTSX6 (recommended torque values to be applied according table to the right)
- Caution: only one of the two gaskets included should be used!

Cable ranges

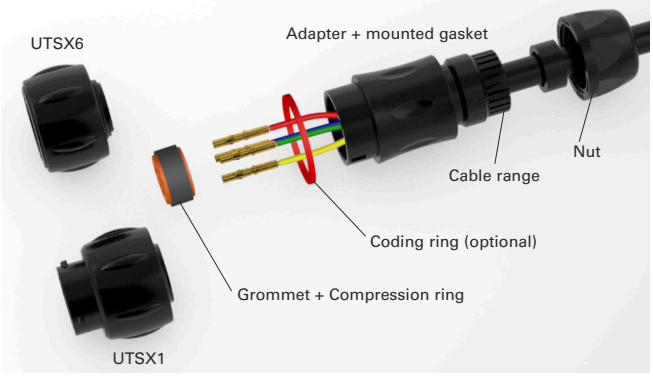
Reducing Standard



Shell size	Recommended jacket strip length Male inch	mm	Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal inch	mm	Ø Cable range Reducing seal inch	mm	Ø Wire inch	mm
10	0.826"	21	1.5	1	0.098"/0.314"	2.5/8.0	0.059"/0.196"	1.5/5.0		
12	0.984"	25	2.5	2	0.196"/0.472"	5.0/12.0	0.118"/0.354"	3.0/9.0	From 0.066" to 0.118"	From 1.7 to 3.0
14	1.141"	29	3	2.5	0.275"/0.551"	7.0/14.0	0.196"/0.472"	5.0/12.0		
16	1.653"	42	2	3.5	0.472" /0.630"	12.0/16.0	0.354" /0.472"	9.0/12.0		
18	1.653"	42	2.5	3.5	0.512" /0.709"	13.0/18.0	0.433" /0.590"	11.0/15.0		

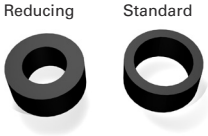
UTSX1GJC or UTSX6GJC assembly

- Slide accessories onto the cable (make sure to keep compression ring on the grommet)
- Strip external cable jacket
- Strip wires and crimp contacts (see **Pages 212 and 213**)
- Insert first contact into the grommet (first contact in cavity A, no tool is required). Then insert the contact in the connector cavity A (insert manually or use tool RTM205)
- Place the grommet and compression ring on the insulator
- Insert the other contacts
- Tighten adapter with plug UTSX6 or receptacle UTSX1, choose correct seal
- Tighten the nut to rear of either UTSX1 or UTSX6 (recommended torque values to be applied according to the table right).



Cable ranges

Reducing Standard



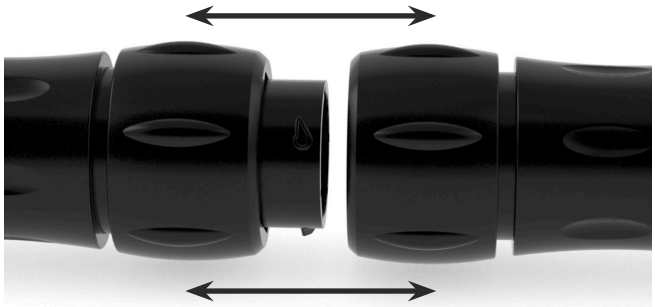
Shell size	Recommended jacket strip length Male inch	mm	Female inch	mm	Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal inch	mm	Ø Cable range Reducing seal inch	mm	Ø Wire inch	mm
10	0.826"	21	1.141"	29	1.5	1	0.098"/0.314"	2.5/8.0	0.059"/0.196"	1.5/5.0	From 0.066" to 0.118"	From 1.7 to 3.0
12	0.984"	25	1.299"	33	2.5	2	0.196"/0.472"	5.0/12.0	0.118"/0.354"	3.0/9.0		
14	1.141"	29	1.417"	36	3	2.5	0.275"/0.551"	7.0/14.0	0.196"/0.472"	5.0/12.0		
16	Not available. Please consult us.											
18	Not available. Please consult us.											

UTSX coupling procedure

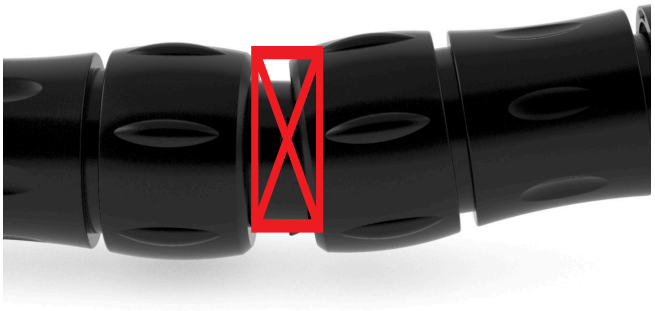
The pictures below provides step by step instructions on how to mate a plug and receptacle connector in order to avoid damaging any of the contacts.



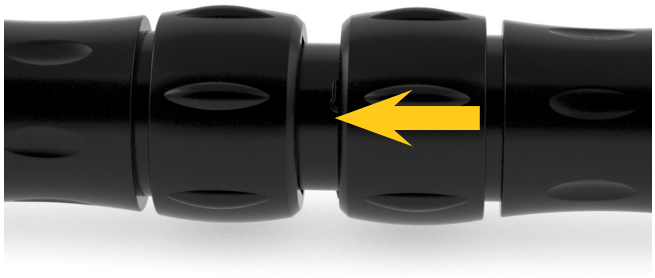
1 - Identify the primary key of each connector.



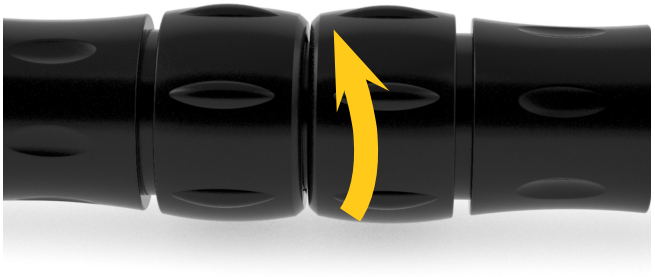
2 - Align the primary keys of the connectors.



3 - Non correct positioning:



4 - Offer the plug to the receptacle.



5 - Turn coupling ring until you hear a 'click'



6 - Example of installation

Fastening of cable: In order to avoid any mechanical stress on the connection, cable should be clamp closed to the connector in such a way there is no bending or traction applying on the connector.

Current carrying capacity

The current carrying capacity of a connector is limited by the thermal properties of materials used in its construction. The amount of current that can be handled depends on the size of cable used, the ambient temperature and the heat that is generated inside the connector. Part 3 of the IEC 60512 standard determines through a derating curve, the maximum current permissible, which varies from one layout to another (Fig.1 and Fig.2). Wire size plays an important role in dissipating heat and avoiding overheating (Fig.1 and Fig.3).

Please note that the curve should be adjusted when dealing with potential hot spots, which can occur as a result of unequal loading of current across a number of contacts. As a general rule, it is best to avoid placing power handling contacts in the middle of the connector. Try to locate them towards the edge where heat can be dissipated more effectively. Eventually you should find a level which represents the permissible operating range.

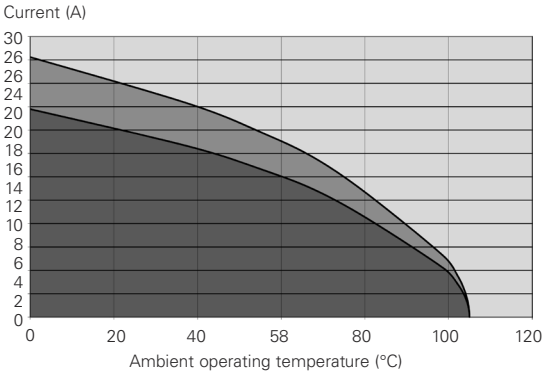


Fig.1: UTSX 12-4 – 16 AWG

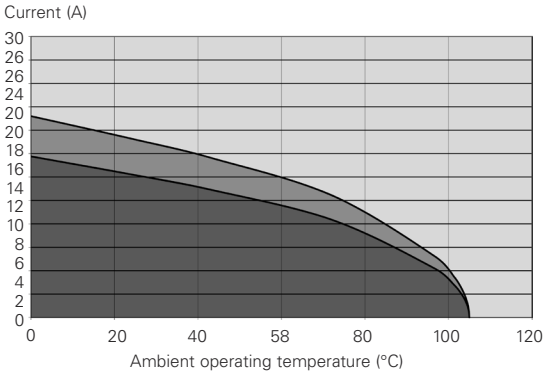


Fig.2: UTSX 12-8 – 16 AWG

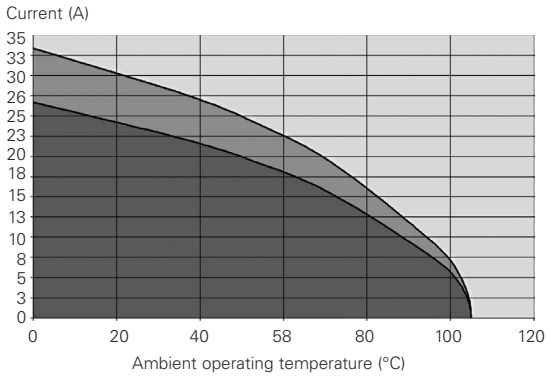
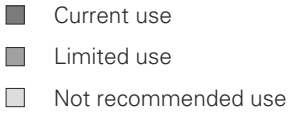


Fig.3: UTSX 12-4 – 20 AWG



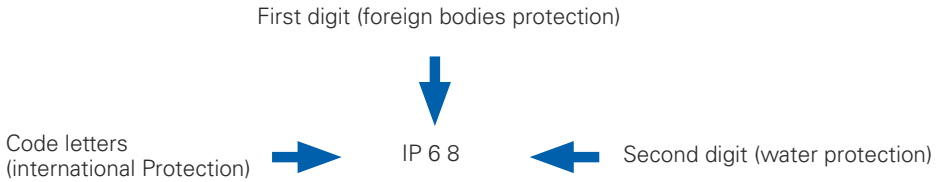
The rated current is defined as uninterrupted continuous current that a connector can take when all contacts are energized simultaneously without exceeding the maximum limit of temperature. The earth contact is never loaded.

UV resistance

Plastics can be susceptible to extreme degradation over time. The UTSX series is made with (f1) material according to UL746C. The UTSX material withstand a 1,000 h UV exposure according ISO4892 without significant color variation, cracking or variation of mechanical properties.

Protection provided by an enclosure

For safety reasons, electrical equipment needs to be protected against outside influences. The basis for the determination is the standard IEC 60529. IP is a coding system that provides information regarding the accessibility of live parts against ingress of water or other foreign bodies.



1st digit	Degree of protection
0	No protection against accidental contact. No protection against solid foreign bodies.
1	Protection against contact with any large area by hand and against large solid foreign bodies with a diameter bigger than 1.889" (48).
2	Protection against contact with the fingers. Protection against solid foreign bodies with a diameter bigger than 0.472" (12).
3	Protection against tools, wires or similar objects with a diameter bigger than 0.078" (2.5). Protection against small solid bodies with a diameter bigger than 0.078" (2.5).
4	Same as 3 however diameter is bigger than 0.039" (1).
5	Full protection against contact. Protection against interior injurious dust deposits.
6	Total protection against contact. Protection against penetration of dust.

UTSX offers high sealing: IP68/69K even in dynamic situations.

2nd digit	Degree of protection
0	No protection against water.
1	Drip-proof. Protection against vertical water drips.
2	Drip-proof. Protection against water drips up to a 15° angle.
3	Spray-proof. Protection against diagonal water drips up to a 60° angle.
4	Splash-proof. Protection against splashed water from all directions.
5	Hose-proof. Protection against water (out of a nozzle) from all directions.
6	Protection against powerful water jets .
7	Protection against temporary immersions.
8	Protection against water pressure. Pressure and immersion time to be specified by supplier.

In addition to the IEC 60529 we conjointly use the ISO 20653 for the implementation of IPx9K testing:

9K	High pressure hose-proof. Protection against high pressure water (out of a nozzle) from all directions.

Dimensions in inches (millimeters)

Ethernet basics

To understand Ethernet theory, a functional comparison to a busy city with highways, buildings and cars is often used. The table below provides the correlation between the different components/pieces/links that encompass Ethernet network connectivity, and the larger scale infrastructure of a metropolitan city.

City	Buildings	Roads	Cars	Tolls	Bridges	Traffic laws
The network itself	End equipment, PC, server, etc.	Ethernet cabling	Data packets, datagrams, bits, bytes, etc.	Firewalls	Connectors	Protocol Communication specifications

Ethernet is a widely used communications protocol that is used to transmit data packets (datagrams) between network devices. Imagine a highway in a large metropolitan area six lanes wide at rush hour. The vehicles on the highway need rules to follow so that they get to their destination without crashing into each other. In an Ethernet network link, there could be 100 million bits of information transmitted in one second. In the Ethernet standard, there exist rules to govern packet structure, transmission requirements, error correction, communication with end equipment, etc.

Ethernet connectors

To understand the differences between 100Mhz, 100 Base TX and Cat5e/Cat6, the comparison to the city is helpful.

- 100Mhz is a measurement of frequency for the signal, comparable to the speed limit on a highway.
- 100BaseTX (or Fast Ethernet) is an Ethernet link standard and identifies available link bandwidth. The bandwidth is measured in units of MBits/S (megabits per second), comparable to the number of cars that pass a point in one second.
- Cat5e/Cat6 are an EIA/TIA standard for performance and physical characteristics for cables and connectors, comparable to performance specifications of the car and highway.

Specifying Ethernet connectors and contacts

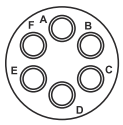
In connectors and cables, Fast Ethernet uses two pairs, one for transmit and one for receive. This way data traffic can flow in both directions simultaneously. To carry 100Mb/s data signals, 100BaseTX or Fast Ethernet, it is recommended to use Cat5e connectors as well as Cat5e cables with the support of a 100MHz signal. However, a 100Mb/s signal can be transmitted in certain conditions: short distance, only one connector, lower frequency, and so does not necessarily need to be Cat5e rated.

Ethernet twisted pairs carry a symmetrical (balanced) signal. With coax contacts, the inner core will be shield, but not the other core. This will result in an unbalanced signal due to electromagnetic interferences. Coax contacts will not work correctly and are not recommended.

Quadrax contacts are used in railway applications because of the use of quad cables. In this specific industry, the standard Ethernet twisted pair cables cannot be used as they are too thin and usually solid, not stranded. In other industries, UTP (Unshielded Twisted Pair) cables are widely used. Quadrax contacts are not designed to terminate UTP cables and are not recommended.

Standard offering

Standard solutions



106* - 10E6/10D6
4.5A 250V 6A 250V
6 contacts #20 Ø
0.039" (1)

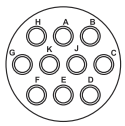
UTSX size 10, 6 contacts

1 (Pair 1) = A

2 (Pair 1) = B

3 (Pair 2) = E

4 (Pair 2) = D



1210 - 12E10/12D10
4.5A 250V 10 contacts
#20 Ø 0.039" (1)

UTSX size 12, 10 contacts

1 (Pair 1) = C

2 (Pair 1) = B

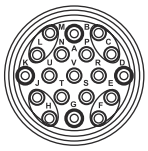
3 (Pair 2) = G

4 (Pair 2) = H

Shielding continuity done in cavity CandF.

Note: *Shielding can be replaced by DC power.

UTSX 14-19 used for Ethernet



Twisted pairs

GND

The UTSX layout 14-19 has been evaluated and approved for use as an Ethernet connection in the following configuration:

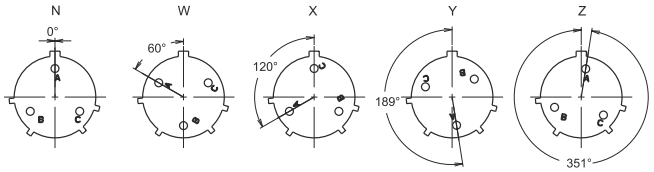
- Using Cat6A cables, with 9m of cable between each connector
- The cable was terminated as pictured

Based on the test results, the insertion loss, return loss, NEXT and ACR-N pass the Channel Class Ea Ethernet requirements, which defines the maximum data rate as 10 Gbps.

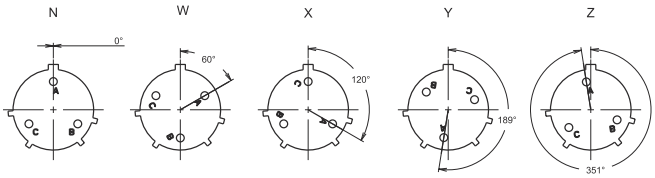
Please note, the results pass the 10 Gbps data rate, but have only been tested with a distance of 9m, and can be validated for up to 20m.

The UTSX series has layouts with discrimination keys, which help avoid mismatching when operators mate the connectors.

This safety feature is particularly important when similar connectors are placed next to each other. Mismatching connectors can lead to serious problems including system failures and even physical injury.



Note: Insert rotated in body (viewed from front face of female insert)



Note: Insert rotated in body (viewed from front face of male insert)

Connectors with rotated inserts can be ordered by adding the suffix W, X, Y or Z to the standard part number.

e.g. **UTSX6JC104S** (N key) ➔ **UTSX6JC104SW** (W key)

Consult us for overmolded harnesses.

		Discrimination keys degrees			
Shell size	**Layout**	**W**	**X**	**Y**	**Z**
10	102W2/103	–	–	–	–
	104	45°	–	–	–
	103W3	–	–	–	–
	106 10E6/10D6	90°	–	–	–
	10E7/10D7	90°	–	–	–
	10E98/10D98	90°	180°	240°	270°
12	12E2/12D2	–	–	–	–
	12E3/12D3	–	–	180°	–
	124 12E4/12D4	–	–	–	–
	128	26°	–	–	–
	12E8/12D8	90°	112°	203°	292°
	1210 12E10/12D10	60°	155°	270°	295°
	12E14/12D14	45°	–	–	–
14	14E5/14D5	40°	92°	184°	273°
	142G1	–	–	–	–
	147 14E7/14D7	–	–	–	–
	148	–	–	–	–
	1412	60°	–	–	–
	1492	49°	71°	145°	–
	14E12/14D12	43°	90°	–	–
	14E15/14D15	17°	110°	155°	234°
	14E18/14D18	15°	90°	180°	270°
	1419	30°	165°	315°	–
	14E19/14D19	30°	165°	315°	–

		Discrimination keys degrees			
Shell size	**Layout**	**W**	**X**	**Y**	**Z**
16	1619	30°	165°	_	315°
	1626 16E26/16D26	60°	_	275°	338°
	163G1	25°	135°	_	_
	165	25°	135°	_	_
	169	30°	125°30'	_	_
	1613	25°	125°30'	_	_
	16E8/16D8	54°	152°	180°	331°
	16E23/16D23	158°	270°	_	_
18	1823	_	158°	_	270°
	1832 18E32/18D32	85°	138°	222°	265°
	186	30°	135°	_	_
	187G1	25°	140°	_	_
	1813	25°	135°	_	_
	18E11/18D11	62°	119°	241°	340°
	18E30/18D30	180°	193°	285°	350°

SMSPKE0: discrimination pin for male UTSX connectors (#16 contacts only)

An alternative method to prevent mismatches is to employ an SMSPKE0 dummy contact, which can be placed into an unoccupied #16 male contact cavity. This ensures that the UTSX male connector will only connect with a female counterpart that also has an empty contact slot in the corresponding position.



Souriau UTSX series

Appendix B: Part number index

Connectors

Free hanging receptacle with cable gland

UTSX1JC102W2P 45
UTSX1JC102W2S 45
UTSX1JC103P 23
UTSX1JC103S 23
UTSX1JC103W3P 64
UTSX1JC103W3S 64
UTSX1JC104P 50
UTSX1JC104S 50
UTSX1JC106P 70
UTSX1JC106S 70
UTSX1JC1210P 120
UTSX1JC1210S 120
UTSX1JC124P 36
UTSX1JC124PSCR 36
UTSX1JC124S 36
UTSX1JC124SSCR 36
UTSX1JC128P 97
UTSX1JC128S 97
UTSX1JC1412P 129
UTSX1JC1412S 129
UTSX1JC1419P 165
UTSX1JC1419S 165
UTSX1JC142G1P 28
UTSX1JC142G1S 28
UTSX1JC147P 84
UTSX1JC147PSCR 84
UTSX1JC147S 84
UTSX1JC147SSCR 84
UTSX1JC148P 106
UTSX1JC148S 106
UTSX1JC1492P 138
UTSX1JC1492S 138
UTSX1JC1613P 143
UTSX1JC1613S 143
UTSX1JC1619P 170
UTSX1JC1619S 170
UTSX1JC1626P 184
UTSX1JC1626S 184
UTSX1JC163G1P 41
UTSX1JC163G1S 41
UTSX1JC165P 59
UTSX1JC165S 59
UTSX1JC169P 116
UTSX1JC169S 116
UTSX1JC1813P 148
UTSX1JC1813S 148
UTSX1JC1823P 179
UTSX1JC1823S 179
UTSX1JC1832P 193
UTSX1JC1832S 193
UTSX1JC186P 79
UTSX1JC186S 79
UTSX1JC187G1P 93
UTSX1JC187G1S 93

Jam nut receptacle only

UTSX7102W2P 45
UTSX7102W2S 45
UTSX7103P 23
UTSX7103S 23
UTSX7103W3P 64
UTSX7103W3S 64
UTSX7104P 50
UTSX7104S 50
UTSX7106P 70
UTSX7106S 70
UTSX710D6P 70
UTSX710D6P32 70
UTSX710D6S 70
UTSX710D6S32 70
UTSX710D7P 89
UTSX710D7P32 89
UTSX710D7S 89
UTSX710D7S32 89
UTSX710D98P 75
UTSX710D98P32 75
UTSX710D98S 75
UTSX710D98S32 75
UTSX710E6P 70
UTSX710E6S 70
UTSX710E7P 89
UTSX710E7S 89
UTSX710E98P 75
UTSX710E98S 75
UTSX71210P 120
UTSX71210S 120
UTSX7124P 36
UTSX7124P 36
UTSX7124PSCR 36
UTSX7124S 36
UTSX7124S 36
UTSX7124SSCR 36
UTSX7128P 97
UTSX7128S 97
UTSX712D10P 120
UTSX712D10P32 120
UTSX712D10S 120
UTSX712D10S32 120
UTSX712D14P 153
UTSX712D14P32 153
UTSX712D14S 153
UTSX712D14S32 153
UTSX712D2P 19
UTSX712D2P32 19
UTSX712D2S 19
UTSX712D2S32 19
UTSX712D3P 32
UTSX712D3P32 32
UTSX712D3S 32
UTSX712D3S32 32
UTSX712D4P 36
UTSX712D4P32 36
UTSX712D4S 36
UTSX712D4S32 36
UTSX712D8P 102
UTSX712D8P32 102
UTSX712D8S 102
UTSX712D8S32 102
UTSX712E10P 120
UTSX712E10S 120
UTSX712E14P 153
UTSX712E14S 153
UTSX712E2P 19
UTSX712E2S 19
UTSX712E3P 32
UTSX712E3S 32
UTSX712E4P 36
UTSX712E4S 36

UTSX712E8P....102
UTSX712E8S....102
UTSX71412P....129
UTSX71412S....129
UTSX71419P....165
UTSX71419S....165
UTSX7142G1P....28
UTSX7142G1S....28
UTSX7147P....84
UTSX7147PSCR....84
UTSX7147S....84
UTSX7147SSCR....84
UTSX7148P....106
UTSX7148S....106
UTSX71492P....138
UTSX71492S....138
UTSX714D12P....134
UTSX714D12P32....134
UTSX714D12S....134
UTSX714D12S32....134
UTSX714D15P....157
UTSX714D15P32....157
UTSX714D15S....157
UTSX714D15S32....157
UTSX714D18P....161
UTSX714D18P32....161
UTSX714D18S....161
UTSX714D18S32....161
UTSX714D19P....165
UTSX714D19P32....165
UTSX714D19S....165
UTSX714D19S32....165
UTSX714D5P....55
UTSX714D5P32....55
UTSX714D5S....55
UTSX714D5S32....55
UTSX714D7P....84
UTSX714D7P32....84
UTSX714D7S....84
UTSX714D7S32....84
UTSX714E12P....134
UTSX714E12S....134
UTSX714E15P....157
UTSX714E15S....157
UTSX714E18P....161
UTSX714E18S....161
UTSX714E19P....165
UTSX714E19S....165
UTSX714E5P....55
UTSX714E5S....55
UTSX714E7P....84
UTSX714E7S....84
UTSX71613P....143
UTSX71613S....143
UTSX71619P....170
UTSX71619S....170
UTSX71626P....184
UTSX71626S....184
UTSX7163G1P....41
UTSX7163G1P....41
UTSX7163G1S....41
UTSX7163G1S....41
UTSX7165P....59
UTSX7165S....59
UTSX7169P....116
UTSX7169S....116
UTSX716D23P....175
UTSX716D23P32....175
UTSX716D23S....175
UTSX716D23S32....175
UTSX716D26P....184
UTSX716D26P32....184
UTSX716D26S....184
UTSX716D26S32....184
UTSX716D8P....112
UTSX716D8P32....112
UTSX716D8S....112
UTSX716D8S32....112
UTSX716E23P....175
UTSX716E23S....175
UTSX716E26P....184
UTSX716E26S....184
UTSX716E8P....112
UTSX716E8S....112
UTSX71813P....148
UTSX71813S....148
UTSX71823P....179
UTSX71823S....179
UTSX71832P....193
UTSX71832S....193
UTSX7186P....79
UTSX7186S....79
UTSX7187G1P....93
UTSX7187G1S....93
UTSX718D11P....125
UTSX718D11P32....125
UTSX718D11S....125
UTSX718D11S32....125
UTSX718D30P....189
UTSX718D30P32....189
UTSX718D30S....189
UTSX718D30S32....189
UTSX718D32P....193
UTSX718D32P32....193
UTSX718D32S....193
UTSX718D32S32....193
UTSX718E11P....125
UTSX718E11S....125
UTSX718E30P....189
UTSX718E30S....189
UTSX718E32P....193
UTSX718E32S....193

Plug only

UTSX6102W2P....45
UTSX6102W2S....45
UTSX6103P....23
UTSX6103S....23
UTSX6103W3P....64
UTSX6103W3S....64
UTSX6104P....50
UTSX6104S....50
UTSX6106P....70
UTSX6106S....70
UTSX610E6P....70
UTSX610E6S....70
UTSX610E7P....89
UTSX610E7S....89
UTSX610E98P....75
UTSX610E98S....75

UTSX61210P 120
UTSX61210S 120
UTSX6124P 36
UTSX6124S 36
UTSX6128P 97
UTSX6128S 97
UTSX612E10P 120
UTSX612E10S 120
UTSX612E14P 153
UTSX612E14S 153
UTSX612E2P 19
UTSX612E2S 19
UTSX612E3P 32
UTSX612E3S 32
UTSX612E4P 36
UTSX612E4S 36
UTSX612E8P 102
UTSX612E8S 102
UTSX61412P 129
UTSX61412S 129
UTSX61419P 165
UTSX61419S 165
UTSX6142G1P 28
UTSX6142G1S 28
UTSX6147P 84
UTSX6147S 84
UTSX6148P 106
UTSX6148S 106
UTSX61492P 138
UTSX61492S 138
UTSX614E12P 134
UTSX614E12S 134
UTSX614E15P 157
UTSX614E15S 157
UTSX614E18P 161
UTSX614E18S 161
UTSX614E19P 165
UTSX614E19S 165
UTSX614E5P 55
UTSX614E5S 55
UTSX614E7P 84
UTSX614E7S 84
UTSX61613P 143
UTSX61613S 143
UTSX61619P 170
UTSX61619S 170
UTSX61626P 184
UTSX61626S 184
UTSX6163G1P 41
UTSX6163G1S 41
UTSX6165P 59
UTSX6165S 59
UTSX6169P 116
UTSX6169S 116
UTSX616E23P 175
UTSX616E23S 175
UTSX616E26P 184
UTSX616E26S 184
UTSX616E8P 112
UTSX616E8S 112
UTSX61813P 148
UTSX61813S 148
UTSX61823P 179
UTSX61823S 179
UTSX61832P 193
UTSX61832S 193
UTSX6186P 79
UTSX6186S 79
UTSX6187G1P 93
UTSX6187G1S 93
UTSX618E11P 125
UTSX618E11S 125
UTSX618E30P 189
UTSX618E30S 189
UTSX618E32P 193
UTSX618E32S 193

Plug with cable gland

UTSX6JC102W2P 45
UTSX6JC102W2S 45
UTSX6JC103P 23
UTSX6JC103S 23
UTSX6JC103W3P 64
UTSX6JC103W3S 64
UTSX6JC104P 50
UTSX6JC104S 50
UTSX6JC106P 70
UTSX6JC106S 70
UTSX6JC10E6P 70
UTSX6JC10E6S 70
UTSX6JC10E7P 89
UTSX6JC10E7S 89
UTSX6JC10E98P 75
UTSX6JC10E98S 75
UTSX6JC1210P 120
UTSX6JC1210S 120
UTSX6JC124P 36
UTSX6JC124PSCR 36
UTSX6JC124S 36
UTSX6JC124SSCR 36
UTSX6JC128P 97
UTSX6JC128S 97
UTSX6JC12E10P 120
UTSX6JC12E10S 120
UTSX6JC12E14P 153
UTSX6JC12E14S 153
UTSX6JC12E2P 19
UTSX6JC12E2S 19
UTSX6JC12E3P 32
UTSX6JC12E3S 32
UTSX6JC12E4P 36
UTSX6JC12E4S 36
UTSX6JC12E8P 102
UTSX6JC12E8S 102
UTSX6JC1412P 129
UTSX6JC1412S 129
UTSX6JC1419P 165
UTSX6JC1419S 165
UTSX6JC142G1P 28
UTSX6JC142G1S 28
UTSX6JC147P 84
UTSX6JC147PSCR 84
UTSX6JC147S 84
UTSX6JC147SSCR 84
UTSX6JC148P 106
UTSX6JC148S 106
UTSX6JC1492P 138
UTSX6JC1492S 138
UTSX6JC14E12P 134
UTSX6JC14E12S 134

UTSX6JC14E15P....157
UTSX6JC14E15S....157
UTSX6JC14E18P....161
UTSX6JC14E18S....161
UTSX6JC14E19P....165
UTSX6JC14E19S....165
UTSX6JC14E5P....55
UTSX6JC14E5S....55
UTSX6JC14E7P....84
UTSX6JC14E7S....84
UTSX6JC1613P....143
UTSX6JC1613S....143
UTSX6JC1619P....170
UTSX6JC1619S....170
UTSX6JC1626P....184
UTSX6JC1626S....184
UTSX6JC163G1P....41
UTSX6JC163G1S....41
UTSX6JC165P....59
UTSX6JC165S....59
UTSX6JC169P....116
UTSX6JC169S....116
UTSX6JC16E23P....175
UTSX6JC16E23S....175
UTSX6JC16E26P....184
UTSX6JC16E26S....184
UTSX6JC16E8P....112
UTSX6JC16E8S....112
UTSX6JC1813P....148
UTSX6JC1813S....148
UTSX6JC1823P....179
UTSX6JC1823S....179
UTSX6JC1832P....193
UTSX6JC1832S....193
UTSX6JC186P....79
UTSX6JC186S....79
UTSX6JC187G1P....93
UTSX6JC187G1S....93
UTSX6JC18E11P....125
UTSX6JC18E11S....125
UTSX6JC18E30P....189
UTSX6JC18E30S....189
UTSX6JC18E32P....193
UTSX6JC18E32S....193

Square flange receptacle only

UTSX0102W2P....45
UTSX0102W2S....45
UTSX0103P....23
UTSX0103S....23
UTSX0103W3P....64
UTSX0103W3S....64
UTSX0104P....50
UTSX0104S....50
UTSX0106P....70
UTSX0106S....70
UTSX010D6P....70
UTSX010D6S....70
UTSX010D7P....89
UTSX010D7S....89
UTSX010D98P....75
UTSX010D98S....75
UTSX010E6P....70
UTSX010E6S....70
UTSX010E7P....89
UTSX010E7S....89
UTSX010E98P....75
UTSX010E98S....75
UTSX01210P....120
UTSX01210S....120
UTSX0124P....36
UTSX0124P....36
UTSX0124S....36
UTSX0124S....36
UTSX0128P....97
UTSX0128S....97
UTSX012D10P....120
UTSX012D10S....120
UTSX012D14P....153
UTSX012D14S....153
UTSX012D2P....19
UTSX012D2S....19
UTSX012D3P....32
UTSX012D3S....32
UTSX012D4P....36
UTSX012D4S....36
UTSX012D8P....102
UTSX012D8S....102
UTSX012E10P....120
UTSX012E10S....120
UTSX012E14P....153
UTSX012E14S....153
UTSX012E2P....19
UTSX012E2S....19
UTSX012E3P....32
UTSX012E3S....32
UTSX012E4P....36
UTSX012E4S....36
UTSX012E8P....102
UTSX012E8S....102
UTSX01412P....129
UTSX01412S....129
UTSX01419P....165
UTSX01419S....165
UTSX0142G1P....28
UTSX0142G1S....28
UTSX0147P....84
UTSX0147S....84
UTSX0148P....106
UTSX0148S....106
UTSX01492P....138
UTSX01492S....138
UTSX014D12P....134
UTSX014D12S....134
UTSX014D15P....157
UTSX014D15S....157
UTSX014D18P....161
UTSX014D18S....161
UTSX014D19P....165
UTSX014D19S....165
UTSX014D5P....55
UTSX014D5S....55
UTSX014D7P....84
UTSX014D7S....84
UTSX014E12P....134
UTSX014E12S....134
UTSX014E15P....157
UTSX014E15S....157
UTSX014E18P....161
UTSX014E18S....161

Souriau UTSX series

Appendix B: Part number index

UTSX014E19P 165
UTSX014E19S 165
UTSX014E5P 55
UTSX014E5S 55
UTSX014E7P 84
UTSX014E7S 84
UTSX01613P 143
UTSX01613S 143
UTSX01619P 170
UTSX01619S 170
UTSX01626P 184
UTSX01626S 184
UTSX0163G1P 41
UTSX0163G1S 41
UTSX0165P 59
UTSX0165S 59
UTSX0169P 116
UTSX0169S 116
UTSX016D23P 175
UTSX016D23S 175
UTSX016D26P 184
UTSX016D26S 184
UTSX016D8P 112
UTSX016D8S 112
UTSX016E23P 175
UTSX016E23S 175
UTSX016E26P 184
UTSX016E26S 184
UTSX016E8P 112
UTSX016E8S 112
UTSX01813P 148
UTSX01813S 148
UTSX01823P 179
UTSX01823S 179
UTSX01832P 193
UTSX01832S 193
UTSX0186P 79
UTSX0186S 79
UTSX0187G1P 93
UTSX0187G1S 93
UTSX018D11P 125
UTSX018D11S 125
UTSX018D30P 189
UTSX018D30S 189
UTSX018D32P 193
UTSX018D32S 193
UTSX018E11P 125
UTSX018E11S 125
UTSX018E30P 189
UTSX018E30S 189
UTSX018E32P 193
UTSX018E32S 193

Square flange receptacle with cable gland

UTSX0JC102W2P 45
UTSX0JC102W2S 45
UTSX0JC103P 23
UTSX0JC103P 64
UTSX0JC103S 23
UTSX0JC103S 64
UTSX0JC104P 50
UTSX0JC104S 50
UTSX0JC106P 70
UTSX0JC106S 70
UTSX0JC1210P 120
UTSX0JC1210S 120
UTSX0JC124P 36
UTSX0JC124S 36
UTSX0JC128P 97
UTSX0JC128S 97
UTSX0JC1412P 129
UTSX0JC1412S 129
UTSX0JC1419P 165
UTSX0JC1419S 165
UTSX0JC142G1P 28
UTSX0JC142G1S 28
UTSX0JC147P 84
UTSX0JC147S 84
UTSX0JC148P 106
UTSX0JC148S 106
UTSX0JC1492P 138
UTSX0JC1492S 138
UTSX0JC1613P 143
UTSX0JC1613S 143
UTSX0JC1619P 170
UTSX0JC1619S 170
UTSX0JC1626P 184
UTSX0JC1626S 184
UTSX0JC163G1P 41
UTSX0JC163G1S 41
UTSX0JC165P 59
UTSX0JC165S 59
UTSX0JC169P 116
UTSX0JC169S 116
UTSX0JC1813P 148
UTSX0JC1813S 148
UTSX0JC1823P 179
UTSX0JC1823S 179
UTSX0JC1832P 193
UTSX0JC1832S 193
UTSX0JC186P 79
UTSX0JC186S 79
UTSX0JC187G1P 93
UTSX0JC187G1S 93

Accessories

Color coding rings

UTS610CCRR 25
UTS610CCRY 25
UTS612CCRG 21
UTS612CCRR 21
UTS612CCRY 21
UTS614CCRG 30
UTS614CCRR 30
UTS614CCRY 30
UTS710CCRG 25
UTS710CCRR 25
UTS710CCRY 25
UTS712CCRG 21
UTS712CCRR 21
UTS712CCRY 21
UTS714CCRG 30
UTS714CCRR 30
UTS714CCRY 30
UTS610CCRG 25
UTS616CCRR 43
UTS616CCRY 43
UTS616CCRG 43
UTS618CCRR 81

UTS618CCRY 81
UTS618CCRG 81
UTS716CCRR 114
UTS716CCRY 114
UTS716CCRG 114
UTS718CCRR 127
UTS718CCRY 127
UTS718CCRG 127

Discrimination pin

SMSPKE0 225

Gasket

UTFD12B 47
UTFD13B 21
UTFD14B 30
UTFD15B 43
UTFD16B 81

Plastic protective cap

85005586A 25
85005587A 21
85005588A 30
85005595 25
85005596 21
85005597 30
85005589A 43
85005598 43
85005590A 81
85005599 81

Sealing caps

UTS10DCG 25
UTS10DCGR 25
UTS10DCGE 25
UTX610DCG 47
UTS12DCG 99
UTS12DCGR 99
UTS12DCGE 99
UTX612DCG 99
UTS14DCG 108
UTS14DCGR 108
UTS14DCGE 108
UTX614DCG 108
UTS16DCG 114
UTS16DCGR 114
UTS16DCGE 114
UTX616DCG 43
UTS18DCG 81
UTS16DCGR 43
UTS16DCGE 43
UTX616DCG 43

Contacts

Crimp contacts

82911456A 49
82911456 49
82911457NA 49
82911458A 49
82911459NA 49
82911460A 49
82911461NA 49
82911462A 49
82911462K 49
82911463NA 49
82911464A 49
82911465NA 49
82911466A 49
82911467NA 49
82913600A 31
82913601A 31
82913602A 31
82913603A 31
82913604A 31
82913605A 31
82913606A 31
82913607A 31
82913608A 31
82913609A 31
RC14M30GE1K 202
RC16M23GE1K 202
RC20M12GE7K 202
RC20M13GE7K 202
RC24M9GE7K 202
RC28M1GE7K 202
RM14M30GE1K 202
RM16M23GE1K 202
RM20M12GE1K 202
RM24M9GE1K 202
RM28M1GE1K 202
RM24W3K 49
RM18W3K 49
RC24W3K 49
RC18W3K 49
RC20W3K 49
RM20W3K 49
SC20W3TK6 49
SC24W3S25 49
SC24W3TK6 49
SM24W3TK6 49
SM14M1TK6 27
SM16M11TK6 27
SM16M1TK6 27
SM20M1TK6 27
RC14M30K 27
RC16M23K 27
RC20M12K 27
RC20M13K 27
RC24M9K 27
RC28M1K 27
RM14M30K 27
RM16M23K 27
RM20M12K 27
RM20M13K 27
RM24M9K 27
RM28M1K 27
SC14M1TK6 27
SC16M11TK6 27
SC16M1TK6 27
SC20M1TK6 27
SC24M1TK6 27
SC16ML11TK6 214
SC16ML1TK6 214
SC14ML1TK6 214
SC20ML1TK6 214
SC20WL3TK6 214
SC24ML1TK6 214
SC24WL3TK6 214
SM14ML1TK6 214
SM16ML11TK6 214
SM16ML1TK6 214
SM24WL3TK6 214

Coaxial contacts

RCDX60xxD28 27
RCDXK1D28 27
RCDX6016D28 204
RCDX6018D28 204
RCDX6024D28 204
RCDX6026D28 204
RCDX6032D28 204
RCDX6034D28 204
RCDX6036D28 204
RCDX6052D28 204
RMDX6018D28 204
RMDX6024D28 204
RMDX6026D28 204
RMDX6032D28 204

Fiber optic contacts

RCPOF1000B 27
RMPOF1000 27

PCB contacts

82911684NAPC 206
82911685NAPC 206
RC20M12E83K 206
RC20M12E8K 206
82911684NPC 31
82911685NPC 31
RC20M12E84K 27
RCW5016K 124

Tooling

MH860 210
51060210936 31
M317 31
RX2025GE1 26
RX2031J 26
S16RCM14 26
S16RCM16 26
S16SCM20 26
S16SCML1 26
S16SCML11 26
51060210924 48
RX20D44 48
S20RCM 48
S20SCM20 48

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