

SCPB SERIES

ORDERING INFORMATION

SCPB 00 CFZ 18 - 1 S W F80 XXX

SERIES PREFIX

- SCPB** Receptacles with wear pins.
- SCPBS** Receptacles without wear pins.
- SCPBH** Inserts are Halogen free.
- SCPBG06** Plug with EMI/RFI ground spring.

SHELL STYLE

See Table I below.

CLASS

See Table II below.

SHELL SIZE

10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40.

INSERT CONFIGURATION

CONTACT STYLE

- P** Pin contacts.
 - R1*** Socket with one (1) Spring. Sizes 8, 4, 1/0, 4/0. See Table IV below.
 - R2*** Socket with two (2) Springs. Sizes 8, 4, 1/0, 4/0. See Table IV below.
 - R3*** Socket with three (3) Springs. Sizes 8, 4, 1/0, 4/0. See Table IV below.
 - S** Socket contacts.
 - T** Pin for R1, R2 or R3 Sockets. See Table III below.
- * Low insertion force and high amperage.

MODIFICATION

- A95** Contact: .000010 gold over .000010 nickel.
 - B1** .245 Flat Band SCPSE-02F Included, Shell Sizes 16-40 (See page 6C-16)
 - B3** .250 Flat Band SCPBE-02F Included, Shell Sizes 16-40 (See page 6C-16)
 - B5** .118 Flat Band SCPSE-04F Included, Shell Sizes 10SL-16S (See page 6C-16)
 - B7** .120 Flat Band SCPBE-04F Included, Shell Sizes 10SL-16S (See page 6C-16)
 - F0** Less contacts.
 - 005** Hard black anodize.
 - 023** Electroless nickel.
 - 024** Zinc cobalt, olive drab color.
 - 025** Zinc cobalt, black color.
 - 098** Stainless steel, passivated.
 - 142** Contacts: .000030 gold over .000050 nickel.
 - 989** Zinc nickel, black.
 - 999** Teflon nickel, non-reflective.
- For other codes, contact Sales Dept.

CONTACT TYPE

- BLANK** Solder termination.
- CR** Metric crimp for DIN wire
- CR1** Metric crimp for AWG wire.
- F0** Less contacts.
- F80** Crimp for AWG wire.

ALTERNATE POSITION (POLARIZATION)

BLANK (normal), **W, X, Y, Z**.

FOR ELECTRICAL CHARACTERISTICS SEE PAGE 3C-2

TABLE I. SHELL STYLE

SHELL STYLE	DESCRIPTION
00	Wall mount receptacle
01	In-line receptacle
01FR	In-line receptacle
02R	Box mount receptacle, front panel mount
020R	Wall mount receptacle less rear accessories
020FR	Wall mount receptacle, front panel mount
03R	Box mount receptacle, rear panel mount
03YM	Box mount receptacle, PC tail rear mount
030	Wall mount receptacle for rear panel mounting
030YM	Wall mount receptacle, PC tail
030FR	Wall mount receptacle
038	90° Wall mount receptacle
06	Straight plug
06FR	Straight plug
064PP	Panel mount plug
064FR	Panel mount plug
065FR	Straight plug
07R	Jam nut receptacle
070	Jam nut receptacle with rear accessory threads
078	Jam nut receptacle with 90° backshell
08	90° plug
TB	Thru-bulkhead receptacle

TABLE III. PIN CONTACTS

CONNECTOR ORDERING CODE	PIN PART NUMBER	SIZE	FOR WIRE SIZE		RATING
			AWG	MM ²	
T	R12-7900-110	8	8	9	100 Amps
T	R12-8500-110	4	4	22	168 Amps
T	R10-9200-110	1/0	1/0	53	304 Amps
T	R10-9798-110	4/0	4/0	107	472 Amps

TABLE II. CLASS

APPLICATION	NON-ENVIRONMENTAL	ENVIRONMENTAL WITH GROMMET	ENVIRONMENTAL NO GROMMET
INDIVIDUAL WIRES	A, ARV, LA, LAF	R, LR, R, RV	APT
	AE, AF, LF	E, F, LF	
JACKETED CABLE	—	CFZ, LCFZ	CF, FR(C), FR(PG), FR(SPB), LCF
	—	WKG	FR(C), FR(PG), FR(SPB), WK, WK3
SHIELDED	—	—	WK1
KELLUMS	—	LC, LC3	LCC, LCG4
PG	—	SL1, SLX1	SL, SLX
SHRINK BOOT	—	G, G2G	AG, AG2G, SV
BANDING	—	ST, SU	STG, SUG, SV
SHIELDED	—	SB, SBF, SBT	ASB, ASBF, ASBT, SV
FLEX CONDUIT			
TYPE CL-P	—	NM	NMG
TYPE EF	—	RK	ARK
METAL CORE	—	CMEG	—
RUBBER HOSE	—	—	BC, LP
PMA	—	TRAC	PIL

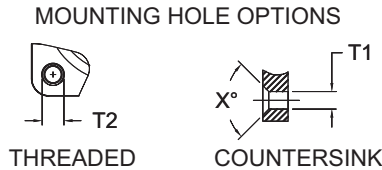
TABLE IV. SOCKET CONTACTS

CONNECTOR ORDERING CODE	SOCKET PART NUMBER	SIZE	FOR WIRE SIZE		SPRINGS	RATING
			AWG	MM ²		
R1	T10-7900-110-1	8	8	9	1	46 Amps
R2	T10-7900-110-2				2	73 Amps
R3	T10-7900-110-3				3	85 Amps
R1	T10-8500-110-1	4	4	22	1	80 Amps
R2	T10-8500-110-2				2	135 Amps
R3	T10-8500-110-3				3	168 Amps
R1	T10-9200-110-1	1/0	1/0	53	1	150 Amps
R2	T10-9200-110-2				2	245 Amps
R3	T10-9200-110-3				3	304 Amps
R1	T10-9795-110-1	4/0	4/0	107	1	225 Amps
R2	T10-9795-110-2				2	350 Amps
R3	T10-9795-110-3				3	500 Amps



WALL MOUNT RECEPTACLE

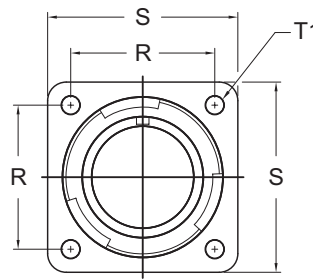
020A*/G020A*/020R*/G020R*



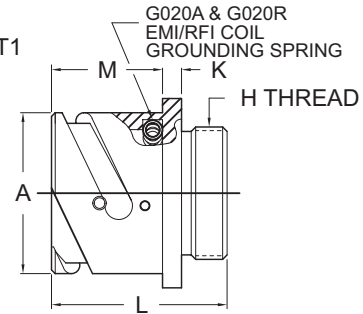
MOUNTING HOLE CODES

CODE	MOUNTING HOLE TYPE
None	Thru holes
FF	Metric thread
UN	UNC thread
FS	Thru holes W/ Metric C'Sink (X=90°)
FSM	Thru holes W/ UN C'Sink (X=82°)

FRONT VIEW



SIDE VIEW



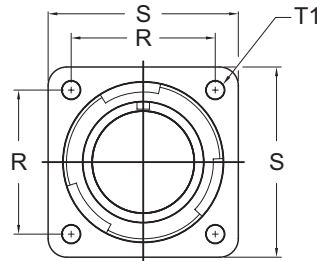
SCPB020A* Non-environmental, no grommet
 SCPBG020A* Non-environmental, with EMI/RFI ground spring
 SCPB020R* Environmental, no grommet
 SCPBG020R* With EMI/RFI ground spring

SHELL SIZE	FRONT VIEW				SIDE VIEW					
	R	S	T1	T2		A	H	K	L	M
	±0.1/ ±.004	±0.3/ ±.012	+0.1/+0.004 -0.0/ -.000	THREAD		+0.00/+0.000 -0.15/ -.006	THREAD CLASS 2A	±0.2/ ±.008	±0.3/ ±.012	+0.4/+0.016 -0.0/ -.000
10SL	18.2/0.717	25.4/1.000	3.2/0.126	M4	8-32UNC	18.2/0.717	5/8-24 UNEF	2.8/0.110	27.6/1.087	14.2/0.559
14S	23.0/0.906	30.0/1.181	3.2/0.126	M4	8-32UNC	24.6/0.969	3/4-20 UNEF	3.2/0.126	27.6/1.087	14.2/0.559
16S	24.6/0.969	32.5/1.280	3.2/0.126	M4	8-32UNC	27.4/1.079	7/8-20 UNEF	3.2/0.126	27.6/1.087	14.2/0.559
16	24.6/0.969	32.5/1.280	3.2/0.126	M4	8-32UNC	27.4/1.079	7/8-20 UNEF	3.2/0.126	33.8/1.331	19.0/0.748
18	27.0/1.063	35.0/1.378	3.2/0.126	M4	8-32UNC	30.8/1.213	1-20 UNEF	4.0/0.157	33.8/1.331	19.0/0.748
20	29.4/1.157	38.0/1.496	3.2/0.126	M4	8-32UNC	34.2/1.346	1 1/8-18 UNEF	4.0/0.157	33.8/1.331	19.0/0.748
22	31.8/1.252	41.0/1.614	3.2/0.126	M4	8-32UNC	37.4/1.472	1 1/4-18 UNEF	4.0/0.157	33.8/1.331	19.0/0.748
24	34.9/1.374	44.5/1.752	3.7/0.146	M4	10-24UNC	40.9/1.610	1 3/8-18 UNEF	4.0/0.157	35.8/1.409	20.6/0.811
28	39.7/1.563	50.8/2.000	3.7/0.146	M5	10-24UNC	46.7/1.839	1 5/8-18 UNEF	4.0/0.157	35.8/1.409	20.6/0.811
32	44.5/1.752	57.0/2.244	4.3/0.169	M5	1/4-20UNC	53.4/2.102	1 7/8-16 UN	4.0/0.157	37.3/1.469	22.2/0.874
36	49.2/1.937	63.5/2.500	4.3/0.169	M5	1/4-20UNC	59.6/2.346	2 1/16-16 UN	4.0/0.157	37.3/1.469	22.2/0.874
40	55.5/2.185	69.9/2.752	4.3/0.169	M5	1/4-20UNC	65.5/2.579	2 5/16-16 UNS	4.0/0.157	37.3/1.469	22.2/0.874

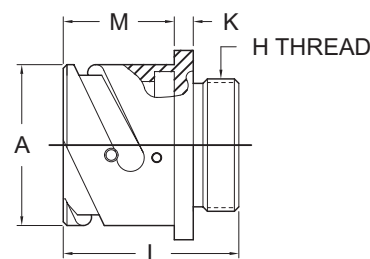
DIMENSIONS IN ITALIC ARE INCHES.

020FR*

FRONT VIEW



SIDE VIEW



SCPB020 FR* Environmental, no grommet
 EXAMPLE PART NUMBER: SCPB020FR24-28P

FINISH: BLACK ANODIZE

CONTACTS: F80 SILVER PLATED CRIMP CONTACTS

SHELL SIZE	FRONT VIEW				SIDE VIEW					
	R	S	T1	T2		A	H	K	L	M
	±0.1/ ±.004	±0.3/ ±.012	+0.1/+0.004 -0.0/ -.000	THREAD		+0.00/+0.000 -0.15/ -.006	THREAD CLASS 2A	±0.2/ ±.008	±0.3/ ±.012	+0.4/+0.016 -0.0/ -.000
10SL	18.2/0.717	25.4/1.000	3.2/0.126	M4	8-32UNC	18.2/0.717	5/8-24 UNEF	2.8/0.110	27.6/1.087	14.2/0.559
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