

CE05 Series

Connectors Conforming to European Safety Standards



As of January 1995 all industrial machinery, including machine tools, which are exported to Europe must conform with European safety standards. The CE05 series connectors, which offer full compatibility with DMS connectors in factory automation applications, were developed to comply with this demand.



TUV Rheinland

FEATURE

- **Conformity with European Safety Standards**
CE05 series connectors fully conform with the following European safety standards : EN60204-1 (electric machinery parts) and DIN VDE 0627 (connectors). They have been approved by TUV Rheinland.
- **Sequence Structure with Protective Circuitry (First-make, Last-break contact design)**
Connectors are provided with a pre-mating and grounding contact, consisting of a shell having conductivity with the shell to serve as protective circuitry. When making connections, the contact of the CE05 connector is connected first before other contacts, and detached last.
- **Conformity with MIL-C-5015**
CE05 connectors fully comply with MIL-C-5015 standards and can be mated with conventional DMS connectors.
- **Water/Oil/Dustproof Structure : Class IP67 Protection**
Once connected, full protection is provided against ingress of water droplets, cutting fluid, dust particles, etc. Use of a synthetic rubber insert ensures protection against water and dust even in the unconnected state in the case of the receptacle with male contacts.
- **Plug Connector Accessories**
Available accessories include waterproof straight-backshells, waterproof angle-backshells and waterproof cable clamps (with rubber bushing). Plug connectors are also available for conduit applications.
- **Solder Wire**
Like DMS connectors, CE05 connectors have solder buckets.
Note : CE05 connectors offer full compatibility with DMS series connectors.

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CE05

MATERIAL/FINISH

Contact	Copper alloy/Silver plating
Pin front insert	Synthetic rubber/Black
Pin rear insert	Synthetic resin/Black
Socket insert	Synthetic resin/Black
Shell	Aluminum alloy/Zinc plating, Black chromate finish
Coupling ring	Aluminum alloy/Zinc plating, Black chromate finish
Retaining ring	Copper alloy/Zinc plating, Olive drab chromate finish
Ground tab	Copper alloy/Silver plating
Gasket	Synthetic rubber/Black

Wire Size

Contact Size	Wire Size
#16	AWG#22-#16
#12	AWG#14-#12
#8	AWG#10-#8
#4	AWG#6-#4

Specification

Current rating	Contact size	#16	#2	#8	#4
	Max. value per contact		13A	23A	46A
Dielectric withstanding voltage	AC (rms), 1minute	1000V, 2000V, 2800V or 3000V			
Insulation resistance	5000MΩ Min. at 500V DC				
Operating temperature	-55°C to +125°C				

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Connection



