

PTG8810 06PF

Specifications

Attribute	Value
General Description	
Description	The PTG8810-06PF is a heavy-duty, miniature cylindrical circular plug connector featuring a quick-disconnect bayonet coupling system. It is engineered for harsh environment applications across industrial automation, aerospace, and high-reliability signaling infrastructure requiring strict environmental sealing and vibration resistance.
Mechanical & Structural Specifications	
Connector Style	Straight Cable Plug (06)
Contact Type	6 Male Pin Contacts (P)
Coupling Mechanism	3-point Bayonet lock with positive detent coupling
Shell Size	10
Insert Arrangement	10-6 (6 Position, Size 20 Contacts)
Termination Style	Solder cup / Fixed solder pot
Backshell Hardware	F — Includes an environmental strain-relief clamp and sealing gland
Mating Longevity	Minimum 500 mating cycles
Electrical Specifications	
Operating Voltage	600V AC (RMS) / 850V DC at sea level (Service Rating I).
Current Rating	Up to 7.5 Amps per contact (for standard #20 AWG contacts).
Insulation Resistance	5,000 MΩ minimum at 500V DC.
Dielectric Withstanding Voltage	1,500V AC (RMS) minimum at sea level.
Environmental Limits & Materials	
Operating Temperature	-55°C to +125°C (-67°F to +257°F).
Shell Material	High-grade machined aluminum alloy.
Shell Plating	Olive Drab Cadmium over nickel or Black Zinc Cobalt (highly corrosion resistant).
Insulator Insert	Neoprene / Polychloroprene rubber (high dielectric strength, fluid resistant).
Contact Material	Gold-plated copper alloy or brass.
Ingress Protection Rating	IP67 rating when correctly mated with an appropriate backshell/boot.
Wire & Cable Assembly Guideline	
Wire Gauge Accommodated	20 AWG to 24 AWG.

Solder Joint Type

Rosin-core solder recommended. Preheat contacts lightly prior to running wire to avoid thermal shock to the internal neoprene rubber insert.