

PTG8810 06PC

Specifications

Attribute	Value
Overview	
Description	Because part number PTG8810-06PC (manufactured by F K I—Flight Refuelling Ltd / Flight Kinetics Industrial, a legacy UK defense and aerospace contractor) is a proprietary military/aerospace component, a single standard commercial datasheet does not exist under that exact name. However, because it strictly conforms to MIL-DTL-26482 Series I (specifically matching the industry-standard PT Series footprint), its exact technical parameters, dimensions, and materials are governed by that standard.
1. Part Number Breakdown & Cross-Reference	
PTG / PT	Miniature Bayonet Coupling Series (Intermateable with MIL-DTL-26482 Series I).
8810 / 10	Shell Size 10 (Denotes the diameter of the connector housing).
06	Shell Style — Straight Cable Plug.
P	Contact Type — Pin / Male.
C	Termination Style — Crimp Contact (High-reliability removable contact).
Direct Commercial Equivalent	Amphenol Industrial PT06CE-10-6P or PT06SE-10-6P (Standard Series 1 equivalents).
2. Electrical Specifications	
Operating Voltage (Service Rating I): DC Working Voltage	850 V DC
Operating Voltage (Service Rating I): AC Working Voltage	600 V AC (RMS at sea level)
Dielectric Withstanding Voltage	1,500 V AC (RMS) min. at sea level
Current Rating per Contact	7.5 Amps maximum (Standard size 20 contacts)
Contact Resistance	Less than 5.0 milliohms maximum at rated current
Insulation Resistance	5,000 Megohms minimum at 500 V DC
3. Mechanical & Environmental Specifications	
Coupling	3-point bayonet lock mechanism with click detent.
Number of Contacts	6 positions (Arrangement 10-6).
Mating Durability	500 cycles minimum (insertion/withdrawal).
Operating Temperature Range	-55°C to +125°C (-67°F to +257°F).
Environmental Sealing	Moisture resistant and splash-proof when mated with standard grommet and cable clamp accessories.

Vibration	Generates no discontinuities greater than 1 microsecond when subjected to 10–2,000 Hz (MIL-STD-202 method 204).
4. Material & Finish Matrix	
Shell Housing	High-grade aluminum alloy extrusion.
Shell Plating	Olive Drab Chromate over Cadmium (Standard Mil-Spec finish) or Clear Anodized Alodine (depending on the exact FKI contract batch).
Insulator Insert	Neoprene resilient rubber (Provides excellent dielectric strength and environmental face-sealing).
Contacts	Copper alloy, Gold-plated (Minimum 50 micro-inches over nickel).