

6-Pin Mating Connector 711600

Circular MIL-Spec Cable Connector - PT06A-10-6S (SR) - for 6-Pin Melt Pressure Transducers

The 711600 is a field-wireable circular cable connector used to build or repair sensor cables for 6-pin (B-series bayonet) melt pressure transducers and transmitters. It is the industry-standard PT06A-10-6S with integral strain relief (SR): a MIL-DTL-26482 Series 1 type straight plug with six gold-plated solder-cup socket contacts and a quick quarter-turn, three-point bayonet lock. The aluminium-alloy shell and resilient insulator give reliable service on extruders and other industrial machinery.

General / Identification

Part number (accessory)	711600
Industry part number	PT06A-10-6S (SR)
Product type	Circular connector - straight cable plug with strain relief
Specification family	MIL-DTL-26482, Series 1
Coupling	Three-point bayonet, five-keyway polarised
Shell size / insert arrangement	10 / 10-6
Weather-tight counterpart	PT06W-10-6S (accessory P/N 711610)

Electrical

Contacts	6 x size 20 socket, closed-entry
Contact material / plating	Copper alloy, gold-plated to MIL-G-45204 Type II (50 microinch min.)
Termination	Solder cup
Current rating per contact	7.5 A working (13 A max., size 20 contact)
Max. operating voltage (sea level)	600 V AC RMS / 850 V DC (Service Rating I)
Dielectric test voltage (sea level)	1,500 V AC RMS
Insulation resistance	5,000 megohm min. at 25 deg C
Accepted wire size	24-20 AWG (insulation OD 1.19-2.11 mm)

Mechanical & Environmental

Shell material	Aluminium alloy
Shell finish	Olive-drab chromate over cadmium
Insulator	Resilient neoprene
Strain relief	Integral cable clamp (SR / F-style)
Operating temperature	-55 deg C to +125 deg C
Mating life	500 mating cycles minimum
Vibration	10-2,000 Hz at 15 g (per MIL-DTL-26482)
Shock	50 g, 11 ms (per MIL-DTL-26482)
Overall dimensions	18.2 mm (0.717 in) outside diameter x 40.9 mm (1.609 in) long
Net weight	18 g (0.04 lb)

Connections (per the transducer manufacturer's manuals for 6-pin B-series sensors)

Pin functions	A = Signal +, B = Signal -, C = Excitation +, D = Excitation -, E-F = R-Cal (internal shunt calibration)
Recommended cable	6-conductor shielded cable (e.g. accessory P/N 800024)

Compliance / Standards

Design standard	MIL-DTL-26482 Series 1
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UL recognition	UL file E115497 (PT solder-contact series)
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Typical Applications

Mating and extension-cable connector for 6-pin melt pressure transducers and transmitters on extrusion lines; strain-gauge sensors, instrumentation, motion control and industrial machinery.

Specifications are taken from the manufacturer's published data and are subject to change without notice. Confirm against the current manufacturer manual before rated or safety-critical use.
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