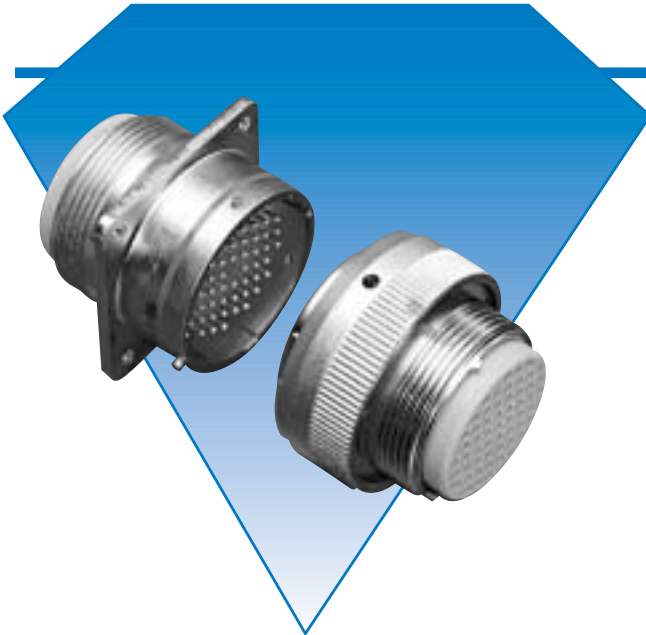


PV Series

MIL-C-26482 Series 2

MIL-C-26482 Series 2 connectors are used extensively in the demanding high reliability world of today's aerospace industry. Utilizing a quick-mating, three point bayonet coupling system, ITT Cannon rugged LITTLE CAESAR® contact retention system and high-quality silicone seals, these connectors work in the harshest of conditions. PVs are intermateable with all Mil-C-26482 Series 1 connectors such as ITT Cannon's KPT and KPSE series of connectors.



Applications

- Commercial and military aircraft
- High-temperature industrial equipment
- Instrumentation
- Avionics

Features

High-Quality Contact System

ITT Cannon's PV line of connectors use industry standard M39029 crimp-style contacts and the field proven Little Caesar contact retention clip that locks the contact into place while allowing easy insertion and removal with simple and low-cost plastic tools.

Wide Range of Cable Accessories Including Military Standard

Unlike MIL-C-26482 Series 1 style connectors, MIL-C-26482 Series 2 style are supplied without rear accessories but with military standard rear threads. This lets users choose from one of the broadest array of endbells, including M85049 standard endbells, from low-cost simple cable tie versions to fully environmental sealed EMI shielded endbells.

Broad Operating Temperatures

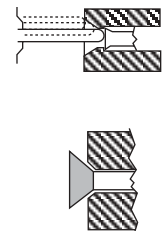
PVs are constructed using high-quality silicone for the peripheral, interfacial and wire seals. This, along with the stable hard dielectric insert material that houses the Little Caesar contact retention clip provide operating temperature from -55°C up to +200°C.

Rear Contact Insertion and Release System

Used properly, the insertion and extraction tools never touch or come in contact with or damage the interfacial seals, a common problem with front release contact systems.

Cork in a Bottle Interfacial Seal System

Socket inserts are constructed with a hard dielectric and funnel-shaped contact lead-ins which not only assist aligning the contacts when mating, but also provide for compression of the raised individual contact seals on the high-quality silicone interfacial seals of the pin insert.



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Technical Specifications

MATERIALS & FINISHES

Shell	High-grade aluminum alloy per QQ-A-367, QQ-A-591 or QQ-A-225
Jam Nut	Aluminum alloy per QQ-A-225
Coupling Nut	High-grade aluminum alloy per QQ-A-591
Plating	Electroless nickel per MIL-C-26074 class 3 or 4 grade B, or Olive drab chromate over cadmium over nickel per QQ-P416
Bayonet Pins	Passivated stainless steel per QQ-S-763
Contacts	Copper Alloy
Plating	Gold plated per MIL-G-45204 50 microinches
Insulator	Rigid plastic dielectric
Grommet & Seals	Silicone based elastomer

ELECTRICAL DATA

Working & Test Voltage

Service Rating	Working		Test	
	At Sea Level Vac rms	70,000 feet Altitude Vac rms	At Sea Level Vac rms	70,000 feet Altitude Vac rms
I	600	300	1,500	375
II	1,000	450	2,300	500

Current Rating

Wire Size AWG	Contact Size	Max. Current for test in amps	Potential Drop Millivolt at 25°C, 77°F
24	20	3	<45
20	20	7.5	<55
20	16	7.5	<45
16	16	13	<50
14	12	17	<45
12	12	23	<50

Wire Range Sizes 24 AWG – 12 AWG

Insulation Resistance 5,000 Megohms minimum at 25°C; (77°F)
500 Megohm minimum at 200°C (392°F) Class L and 175°C (347°F) Class W

MECHANICAL

Operating Temperature Electroless nickel -55°C to +200°C; (-67°F to +392°F)
Olive drab chromate over cadmium over nickel -55°C to +175°C; (-67°F to +347°F)

Wire Sealing Range

Contact Size	Wire Sealing Range Min. inch (mm)	Wire Sealing Range Max. inch (mm)
20	.040 (1.02)	.083 (2.11)
16	.053 (1.35)	.103 (2.62)
12	.097 (2.46)	.158 (4.01)


Insulation Strip Length

Contact Size	Wire Size AWG	Strip Length. inch (mm)
20	20-24	.188 (4.76)
16	16-20	.281 (7.14)
12	12-14	.281 (7.14)

Technical Specifications

Mating Life	500 cycles minimum, 250 cycle minimum for shielded plug
Salt Spray	Class W 48 hours unmated; 452 hours mated per MIL-STD-1344 method, 1001 per MIL-C-26482
Heat	Class L, +200°C (+392°F); Class W +175°C (+347°F) for 1000 hours to MIL-STD-1344 Method 1005.1
Chemical Resistance	Tested unmated according to MIL-C-26482 4.6.28 for hydraulic fluid, lubricating oil, deicing fluids, jet fuels, solvents and coolants
Vibration	10 to 2000Hz (20g's) 10 microseconds maximum discontinuity. To MIL-STD-1344 Method 2005 per MIL-C-26482
Shock:	150g's 6ms duration, three major axes. 10 microsecond maximum discontinuity
Contact Type	Crimp, coax, twinax, printed circuit board, and fiber optic
Number of Circuits	3 to 61
Contact Insertion & Extraction	Insertion from rear of connector with simple plastic or high quality metal hand tool. Extraction from rear with plastic or high-quality metal hand tools
Contact Retention	Per MIL-STD-1344A method 2007 per MIL-C-26482

Contact Size	Axial Load Pounds Min.
20	20
16	25
12	30

Polarization	Five keyway, three point bayonet with optional rotational polarization.  See page 155.
Approvals	MIL-C-26482

Cross Section

