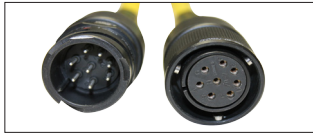


FEATURED CAPABILITY



Molded & Mechanical Military Connector Assemblies (MIL-C-5015) Featured Layouts

- MIL-C-5015
- VG 95 234 NATO Specification
- Operating Temperature Range -55°C to 125°C

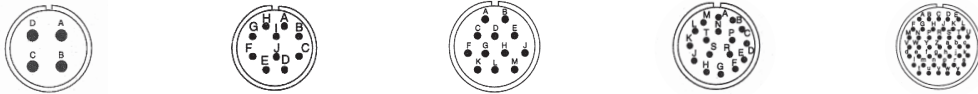


While TPC offers a wide range of circular connector assemblies designed and manufactured to MIL-C-5015 standards, five layouts are most frequently utilized to solve for a customer's connector challenges. Used by the military for more than 50 years, these products are well suited for commercial applications where a rugged connector is required. The reverse bayonet design offers quick and secure coupling, locking in a quarter-turn and maintaining position across static, dynamic, and vibrating applications. The design is also IP69k rated for ability to resist ingress of dust, high-temperature steam, and high-pressure water. TPC maintains deep inventory on these connectors, resulting in quick order turnaround and minimal lead time.



TPC's in-house connector assembly shop represents a valuable service that allows you to skip the hassle of hardwiring and receive complete assemblies that are ready for plug-and-play installation on arrival. Our engineering team customizes pinouts wired to your specifications and provides drawings and documentation at the time of order. All assemblies are then completed by factory-certified technicians and tested 100% for quality workmanship prior to shipping. If you need a rugged connector assembly that can withstand your harsh environment, TPC is your partner.

LAYOUT BY NUMBER OF CONTACTS



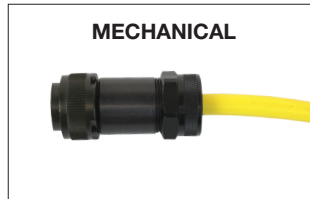
LAYOUT	22-22	18-1	24A24	20-29	28A51
# OF CONTACTS	4-#8	10-#16	12-#12	17-#16	43-#16
SERVICE RATING	A	A (B, C, F, G) I (BALANCE)	A	A	A

MOLDED VS. MECHANICAL BACKSHELLS



MOLDED

- The Molded version rated IP69k promotes a fully-sealed, tamper-proof backend. Superior cable strain relief significantly reduces the risk for failure at the termination point.



MECHANICAL

- The mechanical version contains a sealing grommet that grips the cable jacket to prevent moisture ingress and is also field repairable. A 90° low-profile option is also available for ease of installation.

APPLICATIONS

- Earth-Moving Equipment
- Engines
- Industrial Machinery
- Mobile Equipment
- Motion Control
- Off-Road Vehicles
- Power Generators
- Sensors
- Ships
- Telecommunications
- General Hardwiring Applications



TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE/TEST VOLTAGE

SERVICE RATING*	TEST VOLTAGE	SUGGESTED* OPERATING VOLTAGE		AIR SPACING NOM.	CREEPAGE DISTANCE NOM.
		DC	AC		
I	1,000	250	200	—	1/16
A	2,000	700	500	1/16	1/8
D	2,800	1,250	900	1/8	3/16
E	3,500	1,750	1,250	3/16	1/4
B	4,500	2,450	1,750	1/4	5/16

Current Rating &
Contact Resistance

CONTACT SIZE	TEST CURRENT	POTENTIAL DROP
16	13 AMPS	49 MILLIVOLTS
12	23 AMPS	42 MILLIVOLTS
8	46 AMPS	26 MILLIVOLTS
4	80 AMPS	23 MILLIVOLTS
0	150 AMPS	21 MILLIVOLTS

Maximum total current to be carried per connector in wire bundles as specified in MIL-W-5088. Contact resistance when tested to MIL-C-39029 will not exceed voltage drops listed in above table.

Wire Range Sizes	20 AWG to 0 AWG up to 150 amps
Insulation Resistance	> 5000 megohms at 77°F (25°C) per MIL-C-5015
Operating Temperature	-55° to +125°C (-67° to +257°F) 60 hrs./185°F 1000 hrs.
Sealing	48 hours in 6 feet of water per MIL-C-5015 Meets 20 day extreme humidity testing per MIL-C-5015 (NOTE: using epoxy backfill option)
Mating Life	100 cycles minimum to MIL-C-5015
Chemical Resistance	20 hour full immersion unmated in hydraulic fluid and lubricating oil per MIL-C-5015 minimum
Vibration	10 to 2,000Hz (15 g's) 10 microseconds maximum discontinuity to MIL-STD-1344 Method 2005 per MIL-C-5015
Shock	50g's, 11ms duration, three major axes 10 microseconds maximum discontinuity to MIL-C-5015
Polarization	Integral key and keyway
Approvals	MIL-C-5015 • VG 95 342

LET TPC DO THE WORK.

Get your cables **connectorized**
& ready to install.



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