

MIL-22992 CLASS L POWER CABLES

Power generation and distribution cables designed to meet demands ranging from 40-200 amps.



Amphenol PCD cables built for all harsh environments and designed to meet and exceed customer expectations. Close alliances with other Amphenol divisions, enables Amphenol PCD to competitively offer full turnkey integration of any connector onto a cable assembly. We offer quick-turn prototype services and production programs with short lead-times. Our experienced engineering staff is ready to assist you with any new design effort ranging from connector selection to full cable assembly design. Our facility is ITAR registered, ISO 9001:2008, and AS9100-C certified.

Features:

- MIL-DTL-22992 Class L connectors for shelters
- High voltage cables for hybrid drives and on-board vehicle power (OBVP)
- Low voltage, multi-branch harnesses for avionics power



HIGH POWER CONNECTORS

RELIABLE CONNECTION FOR HIGH POWER APPLICATIONS



MIL-22992 Class L Power Cables



Rhino



Raptor



PowerSafe

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RHINO

Field-proven Mil-DTL-38999 Series III circular connectors with Radsok® contacts, pushing the boundaries of high-power connector technology.



Amphenol PCD's Rhino 38999 is the go-to choice for critical power applications, boasting unique features such as six keyways, anti-decoupling mechanism, superior EMI performance, and high vibration tolerance. With versatility in shell materials, plating finishes, and custom configurations, Rhino 38999 ensures unmatched reliability and performance across military, aerospace, and industrial sectors.

Features:

- 1000A
- Touch-Protected Contacts
- Safe Mating Design
- MIL-DTL-38999 Series III design features
- MIL-DTL-38999 panel cut-outs
- MIL-DTL-38999 Black Zinc Nickel plating
- RoHS Compliant
- IP68

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RAPTOR

New range of connectors engineered for high voltage and high current systems in E-Flight, E-VTOL and hybrid applications.



Amphenol PCD's Raptor provides partial discharge free performance at an operating voltage of 2.0KV AC(rms) at 35,000 ft, ideal for batteries, generators, motors & power distribution units. Perfect for termination of screened HV power cables in Aerospace applications. With superior EMC performance, electroless nickel plating and high voltage insulation system the Raptor connector series ensures a reliable connection for high power e-flight systems.

Features:

- Based on proven Amphenol Ltd Rhino series for ground power applications, re-engineered for Aerospace
- IP68 sealing and anti-decoupling ratchet mechanism ensure a reliable connection under high vibration
- TALON contacts - temperature capability up to 200°C.
- Shell Sizes 15 to 25; Silver Plated Copper Contact
- Nickel Plated Aluminium Connector housings
- Insulator material for High Voltage
- Increased creepage & clearance distances
- Improved insulation geometry for HV electric fields
- Increased operating voltages at aircraft altitudes

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POWERSAFE

High Power with Safety design connector, Derived from MIL-DTL-38999 series III.



PowerSafe connectors are derived from MIL-DTL-38999 Series III connectors and dedicated to high power supply in harsh environments. These connectors provide the user with, the highest user safety, shielding effectiveness & environmental performances. PowerSafe connectors follow the European standard for power equipment DIN EN 61984 (former VDE 0627).

Features:

- Two inserts types with different characteristics:
 - "E" inserts – up to 200°C & CTI (Comperative Tracking Index) <100
 - "V" inserts – VG96944 compliant – up to 150°C & CTI between 175 & 400 (Material Group IIIa)
- First mate/last break
- IP28 when unmated, ip68 when mated
- Robust and excellent environmental performances
- SEVERAL MATERIALS & PLATING
 - Aluminum, Marine Bronze, Stainless steel
- EMI/RFI protection

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