

**Product Features, Benefits and Specifications**

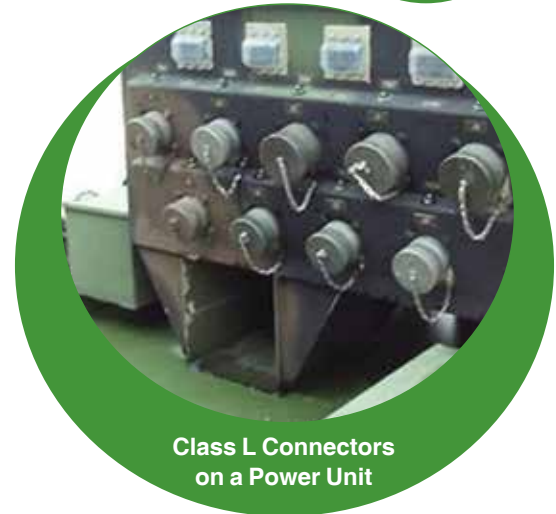
- High Current Capacity
- Rugged Construction
- Safety
- Serviceability



**Class L Plug and Receptacle**

Amphenol meets the demands for heavy duty & heavy power connectors with features that are critical to reliable interconnection in rugged environmental conditions. Heavy Duty Class L\* connectors are highly suitable for industrial or military applications.

- Heavy electrical loads: current range from 40 to 200 amperes
- Direct current or single/three phase, 60/400 Hertz alternating current
- Automatic grounding for safety
- Meet MIL-DTL-22992 qualification
- Resistance to the operating environments of heat, moisture, vibration, high impact and immersion - see chart below.
- Double stub coupling threads for faster connections; no cross threading, easy cleaning
- Left hand accessory threads to minimize cable twisting, wire breakage, accidental connector disassembly
- Gaskets or "O" rings at appropriate surfaces for perfect weather tight connections



**Class L Connectors on a Power Unit**

**Amphenol Heavy Duty Class L connectors have been exposed to the following environmental conditions, without compromise of mechanical integrity or degradation of electrical performance.**

Condition	Configuration	Description	Reference
Thermal Shock	Unmated	Five complete on hour temperature cycles of -55°C to +125°C	MIL-STD-1344, method 1003, test condition A
Moisture Resistance (Cable mounted connectors)	Mated	Ten complete 24 hour cycles of +25°C to +65°C temperature at 90% to 98% humidity	MIL-STD-202, method 106
Durability	Mated	500 complete mating/unmating cycles	MIL-DTL-22992
Salt Spray (Corrosion)	Unmated	48 hour exposure to atomized 5% saline solution at +35°C	MIL-STD-1344, method 1001
Vibration	Mated	10 to 55 Hz, .06 inch total excursion in 1 minute cycles for 6 hours, 55 to 2000 Hz, 10G peak amplitude sweep	MIL-STD-1344, method 2005
High Impact	Mated	Nine hammer blows from 1, 3 and 5 feet, three each in three axes on mounting panel	MIL-STD-202, method 207
Heat Rise (Class L only)	Mated	Maximum rated DC current for four hours at +25°C in still air	MIL-DTL-22992
Fluid Immersion	Unmated	20 hours immersion in hydraulic fluid and lubricating oil	MIL-DTL-22992
Water Immersion	Mated and Unmated	4 hours immersion at 1 atmosphere pressure differential	MIL-DTL-22992

Amphenol also supplies other series of heavy duty cylindrical connectors:

- QWLD Series - Military MIL-DTL-22992 qualified connectors and industrial equivalents.
- QWL Series - A more compact heavy duty design for industrial power and control applications.
- Star-Line, Star-Line EX Series - Industrial high power circulars.

See the Options/Others section of this catalog for more information on these series.

\* Amphenol Class L design is covered by one or more of the following U.S. Patent Numbers: 3,023,396, 3,221,292

38999  
III  
HD  
Dualok  
II  
I  
SJT  
Accessories  
Aquacon  
Herm/Seal  
PCB

**HIGH SPEED**  
Fiber Optics  
Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear Release  
Matrix

**22992**  
Class L

Back-  
Shells

Options  
Others