

SHDL heavy duty cylindrical connectors (MIL-C-22992 Class L type)

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General description

SHDL Heavy duty cylindrical connectors are the largest size cylindrical, Highly suitable for industrial or military applications and is designed to meet demands of heavy power interconnections in current ranges of 40 to 200 amps.

As safety is an all important factor, the connectors are designed with a programmed coupling sequence to provide making of grounded or neutral circuits prior to mating of power circuits.

At un-mating, the power circuits are broken before the ground or neutral. A unique arc quenching capability also provides a positive safety feature if the connectors are inadvertently disconnected under load.

A 5 key polarizing system is used to assure that circuits with incompatible power characteristics (voltage, phase and frequency) cannot be mated.

Cable lay patterns have been taken into account in the design of contact arrangements to facilitate termination of large conductors.

They are manufactured according to MIL-C-22992 Class L.

Connector shell style and contact type

Wall mount and cable connecting receptacles are supplied with socket contacts only and always lead from the power source. Plugs (with coupling rings) have pin contacts only and always lead to the equipment end.

Shell size

The direct relationship of shell size to current carrying capability reduce the possibility of inadequate wiring for heavy electrical loads.

- 28 size - 40 Amp current rating, #6 Contact size
- 32 size - 60 Amp current rating, #4 Contact size
- 44 size - 100 Amp current rating, #1/0 Contact size
- 52 size - 200 Amp current rating, 4/0 Contact size

Insert rotation

When carrying alternating current (A.C), different angular rotations of the insert within the connector shell are used to distinguish between 60 Hz and 400 Hz circuits.

Keyway position

Four positions of the main keyway are used to discriminate between the following power sources :

- Two wire D.C
- Two wire single phase A.C
- Three wire single phase A.C
- Four wire three phase A.C

Coupling & Mounting

Double stub threaded per MIL-STD-1373 for fast coupling, easy cleaning. 5 key polarization. Rated to 500 complete mating / unmating cycles.

Performance & Environmental Effect

Operating temp. from -55°C to $+125^{\circ}\text{C}$. Resilient inserts provide high dielectric strength and moisture barrier. Sealing gaskets at every joint for waterproofing. Rugged shells are explosion proof and are resistant to vibration and shock, hydraulic fluids, oils and salt spray corrosion. Operating voltage to 3000 VAC (r.m.s.) at seal level.