



United Electronics
Corporation

The Power to Connect



QWLD Heavy Duty Cylindrical Connectors

MIL-DTL-22992, QWLD

Military tested and approved

QWLD Heavy Duty Cylindrical Connectors



MIL-DTL-22992, QWLD Series heavy duty cylindrical connectors provide reliable power and control functions in hostile environments where ordinary connectors cannot survive.

The design features of this connector series provide:

:: High Durability

Water and explosion proof, resistant to abrasion, corrosion, vibration and shock

:: Quick, Positive Mating

Double stub threads per MIL-STD-1373 for fast coupling, easily cleaned

:: Selection

Over 300 industrial and MS-approved insert patterns available, including coaxial and thermocouple

Outstanding design features that make these cylindricals a necessity for difficult applications include:

- :: Alumilite 225* hard anodic finish for abrasion and corrosion resistance or conductive cadmium plate
- :: Resilient inserts for moisture sealing, positive proof against shock and vibration
- :: Sealing gaskets at every joint for water-proof assembly
- :: Cable strain relief provided by clamp bar type accessories
- :: Left hand accessory threads to prevent damage from disconnect torque applied in the wrong direction

MS-APPROVED CONNECTORS

To illustrate the ordering procedure, part number MS17343R20N27PW is shown as follows:

PART NUMBER

MS17343	R	20	N	27	P	W
1	2	3	4	5	6	7

1: MS Number

MS17343 designates wall mount receptacle
 MS17344 designates straight plug
 MS17345 designates cable connecting plug
 MS17346 designates box mount receptacle
 MS17347 designates jam nut receptacle with rear accessory threads (wall mount)
 MS17348 designates jam nut receptacle (box mount)

2: Class

C designates pressurized - used where circuit integrity is protected by a pressure differential.
 R designates environmental.

3: Shell Size

Available in shell sizes 12 through 44.

4: Shell Finish

C for conductive or N for non-conductive.

5: Insert Arrangement

Please contact us for all current MS insert arrangements.

6: Contact Type

P for pin, S for socket.

7: Alternate Insert Rotation

Used to prevent cross-mating of connectors. Absence of a letter in this space indicates normal (0°) position of the insert.

MIL-DTL-22992 environmental and mechanical testing:

Condition	Test Procedure
Vibration	28 of EIA-364
Dielectric withstanding voltage	20 of EIA-364
Water immersion	In accordance with MIL-DTL-22992
Insulation resistance	21 of EIA-364
Fluid immersion	In accordance with MIL-DTL-22992
Permeability	In accordance with MIL-DTL-22992
Contact resistance	06 of EIA-364
Temperature cycling	32, condition I, 5 cycles, of EIA-364
Air leakage	In accordance with MIL-DTL-22992
Insert retention	In accordance with MIL-DTL-22992
Humidity	106 of MIL-STD-202
Durability	In accordance with MIL-DTL-22992
Salt spray (corrosion)	26 of EIA-364