



Features

Field Serviceable

The use of removable crimp contacts allows connections to be changed or modified in the field if necessary. Contacts are copper alloy with a range of gold or tin platings.

Agency Approvals

- UL and CSA (Trident Ringlock)
- IP67 Submersible

Technical Specifications

MATERIALS & FINISHES

Shell	UL94V0 thermoplastic with nickel plated copper alloy coupling nut and bayonet lock ring
Contacts	High reliability copper alloy available in two versions, stamped and formed, or machined
Platings	Tin, gold flash, gold (1 micron), heavy gold (3 microns)
Seals	Rubber, silicone

ELECTRICAL DATA

Operating Voltage	Up to 250 Vac rms degree of pollution permitting per IEC664 (TNM 700 volt power version)
Test Voltage	2000 Vac rms test potential
Current Rating	30 Amps (Neptune Power contacts), 13 Amps (Signal contacts). 16 Amp contacts available. Use in accordance with derating curve, on fold out page 56. ➡ New TNM 40 amp power.
Wire Range Sizes	28 - 14 AWG (stamped contacts), 28 - 16 AWG (machined), 18 - 12 AWG (Power Neptune) 16-8 AWG (Power TNM)
Contact Resistance	5 Milliohms Initial
Insulation Resistance	5000 Megohms at 500Vdc

MECHANICAL

Operating Temperature	-55° to +120°C (-67° to +248°F). 105°C maximum when 4 or more contacts are run near their maximum current. 105°C maximum when using tin contacts.
Sealing	IP67
Wire Sealing Ranges	See column 9 on contact selection chart, page 59. ➡
Insulation Strip Lengths	See column 8 on contact selection chart, page 59. ➡
Mating Life	500 cycles (machined contacts) 200 cycles (stamped)
Salt Spray	To MIL-STD-1344 Method 1001 (48 hrs. no corrosion)
Heat	Damp Heat to BS 2011 Pt2 Ca, 21 days exposure +105°C to -50°C (5 cycles) remains within specifications
Chemical Resistance	Connectors show no damage when exposed to fluids used in industrial/vehicle applications
Vibration	5 to 55 Hz (1 minute) No discontinuities longer than 1 microsecond
Shock	50g 11ms MIL-STD-202 Method 213 condition A
Contact Type	Crimp, PC, first make/last break, co-ax, wire wrap
Number of Circuits	4 to 48
Contact Insertion	From rear. No insertion tool needed. Removable with proper extraction tool (front release).

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Specifications

Contact retention

CONTACT	FORCE (min)	
	Lbs.	Newtons
Machined	25	110
Stamped	15	65

Polarization	Standard or reversed sex shells and/or keying pins
Approvals	UL (E102053), CSA (LR68300), TNM: UL, C-UL, E151413
Color	Silver (TNM) or Black with silver coupling nut and ring (Ringlock and Neptune)

Exploded View

Neptune

PLUG

STANDARD ENDBELL (INCLUDED)

INDIVIDUAL WIRE SEALING GROMMET

SHELL

METAL COUPLING NUT

FLANGED RECEPTACLE

METAL BAYONET LOCK

INTERNAL O-RING (NOT VISIBLE)

SHELL

INDIVIDUAL WIRE SEALING GROMMET

STANDARD ENDBELL (INCLUDED)

JAM NUT RECEPTACLE

JAM NUT

METAL BAYONET LOCK

INTERNAL O-RING (NOT VISIBLE)

SHELL

INDIVIDUAL WIRE SEALING GROMMET

STANDARD ENDBELL (INCLUDED)

Ringlock

PLUG

ENDBELL (VARIOUS OPTIONAL STYLES)

SHELL

METAL COUPLING NUT

FLANGED RECEPTACLE

INTERNAL O-RING (NOT VISIBLE)

METAL BAYONET LOCK

SHELL

ENDBELL (VARIOUS OPTIONAL STYLES)

TNM

PLUG

STANDARD ENDBELL (Optional)

INDIVIDUAL WIRE SEALING GROMMET (Optional)

NICKEL PLATED CONDUCTIVE CAST ZINC SHELL

METAL COUPLING NUT

FLANGED RECEPTACLE

METAL BAYONET LOCK

INTERNAL O-RING (NOT VISIBLE)

NICKEL PLATED CONDUCTIVE CAST ZINC SHELL

INDIVIDUAL WIRE SEALING GROMMET (Optional)

STANDARD ENDBELL (Optional)

NEW! Light Rope

NEW! High Power

NEW! 700 Volt High Power

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