



Magnum is a quality directed series of multi-pin, high voltage connectors and cable assemblies. This series signifies the large number of design solutions possible with this series of connectors because they are mechanical assemblies built-up from pre-tested, detail components, as contrasted to a conventional, one piece, molded-in-place cable assembly.

The Magnum construction allows the stress testing of details, such as plastic insulators and elastomeric dielectric interface seals, prior to final assembly which results in a much higher level of quality and reliability. It is also possible, in many cases, to replace damaged receptacle seals and the individual plug leads rather than discarding an entire cable assembly.

Features:

- Standard 6 pin configuration
- Rugged stainless steel shells which eliminate concern for plating flakes contaminating dielectric interfaces
- Bayonet coupling with a handle to ease mating in confined spaces
- A metal, right angle, shielded, cable strain relief
- Receptacle dielectric seal replacement
- Four polarizations available
- Optional receptacle configuration for potting, fluid or gas dielectric.
- 12 KVDC rating at -55°C to +125°C at 70,000 feet altitude.
- High voltage "burn-in," a 100% acceptance and confidence test conducted at simulated operating environments
- Optional corona testing categorized by customer specified partial discharge energy ranges
- Pre-formed cable bundles to eliminate over-stress on contacts and insulators

General Specifications

Contact-Female

Design: Split finger, closed entry

Material: BeCu gold plated with CRES hood

Solder Bucket: Accommodates 20 AWG max

Contact-Male-Receptacle

Design: Pin with spherical radius. Size 22 (.030 Dia.)

Material: (Plastic version) BeCu gold plated (Ceramic version) Kovar nickel plated

Solder Bucket: Accommodates 20 AWG max

Insulator- Receptacle and Plug Bodies

Diallyl Phthalate

Insulator Noses-Plug

Thermoplastic

Insulator-Ceramic Receptacle

94% Alumina Oxide, min.

Braze Material 99% pure copper

Dielectric seals & "O" Rings-Plug & Receptacle

Silicone Rubber. Option: Coolanol compatible fluorsilicone rubber

Shell-Plug & Plastic Receptacle

303 CRES Passivated

Shell-Ceramic Receptacle

304 L (Weldable) CRES Passivated

Bayonet Coupling Sleeve-Plug

303 CRES Passivated

Jam Nut-Plastic Receptacle

303 CRES Passivated

Panel Seal-Plastic Receptacle

Ethelene Propylene

Cable Assemblies-Plugs

Standard: Overall shielded 6 conductor .090 diameter silicone coated FEP high voltage cable with right angle termination

Cable Assemblies-Receptacles

Standard: .090 dia Silicone Coated/FEP high voltage cable

Electrical

Test Voltages (Mated): 150% of rated voltage

Rated Voltage: 12 KVDC

Temperature

Storage: -65°C to +125°C Operating: -55°C to +125°C