μCom-10Gb +

Harsh Environment 10Gb
Ethernet Micro Connectors



µCom-Series is a new range of connectors designed to address the latest trends of the industry : **miniaturization** and **high speed**, with the highest resistance for use in the **harshest environments**.

 μ Com-10Gb + is the first product of this new range.

KEY CHARACTERISTICS

- 10Gb+ exceeds 10Gb/s Ethernet following IEEE 802.3an-2006: 10GBase-T
- Environmental testing based on MIL-DTL-38999 series III military specifications
- Miniature : 15 mm(.59") max external diameter

FEATURES AND BENEFITS

- 4 pairs totally insulated throughout the connector
 minimum cross-talk between the four pairs
- Patent pending special interfacial shapes
 minimum perturbation at the interface of each pair
- •Thread coupling mechanism

 ⇒ 2000 mating cycles & high vibration resistance
- Machined Brass shells and RoHS compliant plating
 ⇒ shell to shell continuity and 500h salt Spray resistance
- Machined & gold plated Solder and Crimp contacts

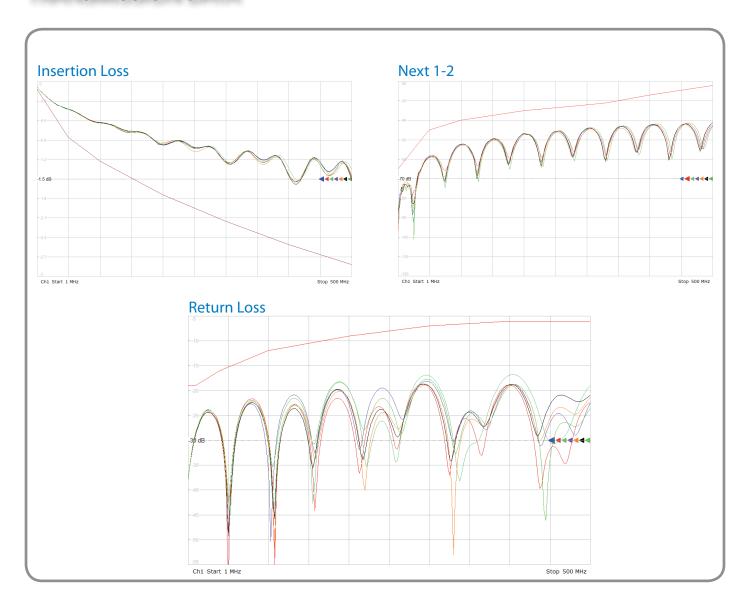
 ☐ design & performance according to the innercontact of M39029/77-429#16 M39029/76-425#16 38999 contact
- Solder contact: max AWG24Crimp contact: AWG 24 to 26
- •IP68 sealing mated and unmated for receptacles
- •1500 Vrms Dielectric Withstanding voltage
- •Temperature range: 55°C/+ 125°C

APPLICATIONS

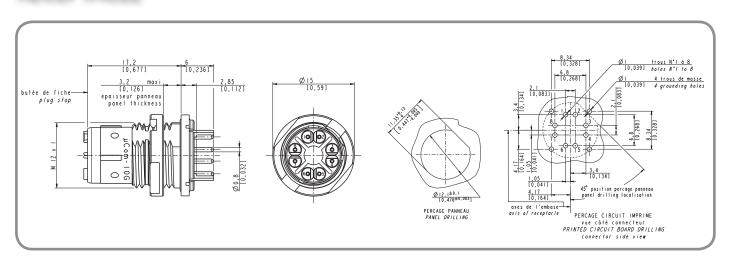
- **DEFENSE**: C4ISR, Battlefield Communications, Shipboard, Ground Vehicles Vetronics.
- AERONAUTICAL: In Flight Entertainment, Avionics, Communication Systems.
- RAIL MASS TRANSIT: Passenger Information Systems, Communication Systems.



TRANSMISSION DATA

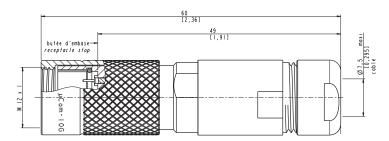


RECEPTACLE

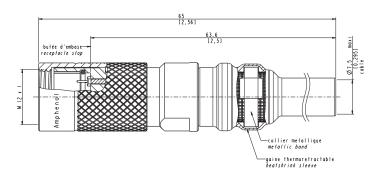


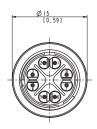
PLUGS & CORDSETS

Plug with Gland Backshell

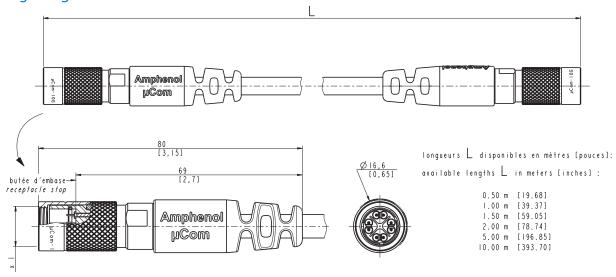


Plug with Band Backshell





Plug - Plug Cordsets



Type of Cable used: CAT 7 HFFR According to EN 50288-4-2

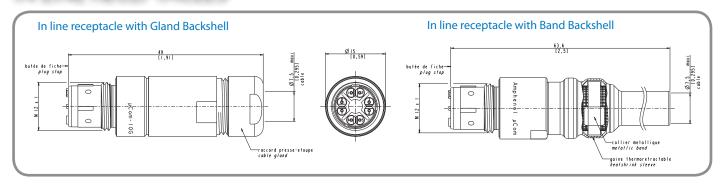


- Stranded bare copper wire (26 AWG)
- 4 Screened twisted pairs: 2 wires twisted to a pair, Alulaminate foil overlapped
- Shield braiding of tinned copper wires, about 80% coverage
- Strain member of Kevlar

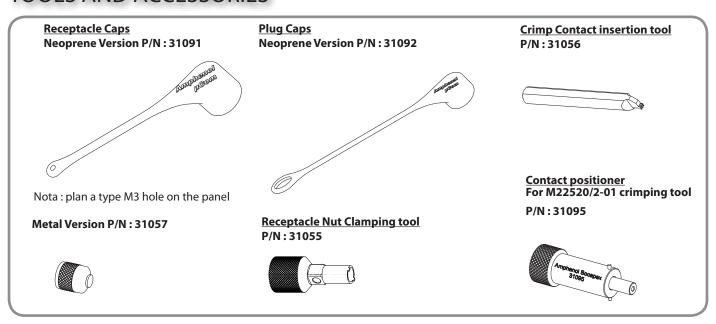
- Jacket in black Polyurethane (PUR), glossy finish, acc to DIN VDE 0282
- \bullet External diameter 7.0 +/-0.3 mm
- UV & Hydrolysis resistant, Halogen free, RoHS compliant
- Max Pull force: 800 N, Weight: about 54 kg/km
- •Temperature : 40°C / + 85°C

For full dimensions, please ask for Customer Drawing

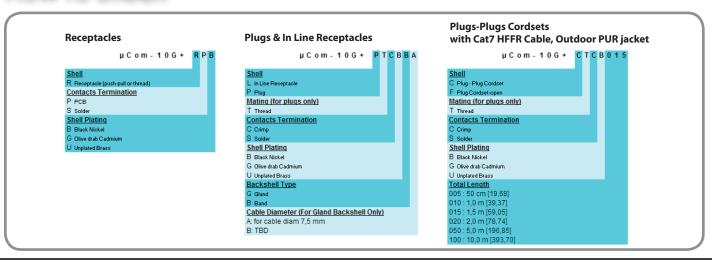
IN LINE RECEPTACLES



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