# 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**.

 $\mu$ 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

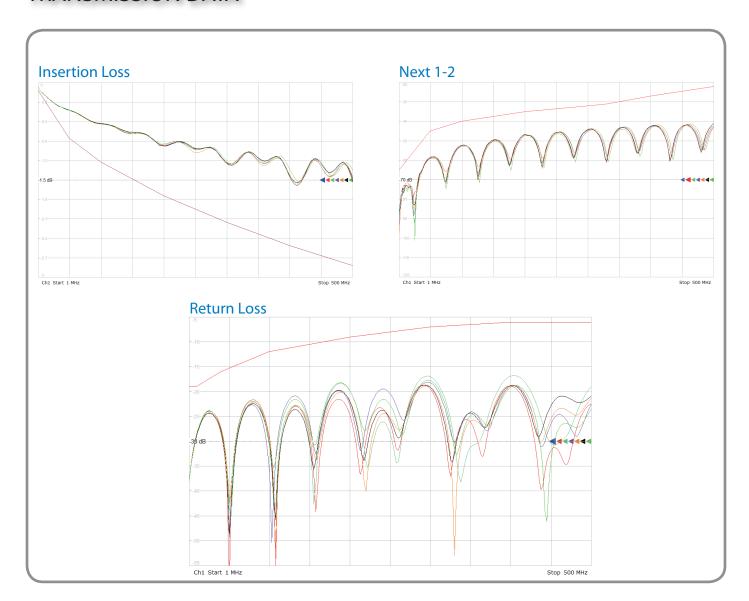
  ☐ design & performance according to the innercontact of M39029/77-429#16 M39029/76-425#16 38999 contact
- Solder contact: max AWG24Crimp contact: AWG 24 to 26
- •IP68 sealing mated and unmated for receptacles
- •1500 Vrms Dielectric Withstanding voltage
- •Temperature range: 55°C/+ 125°C

# **APPLICATIONS**

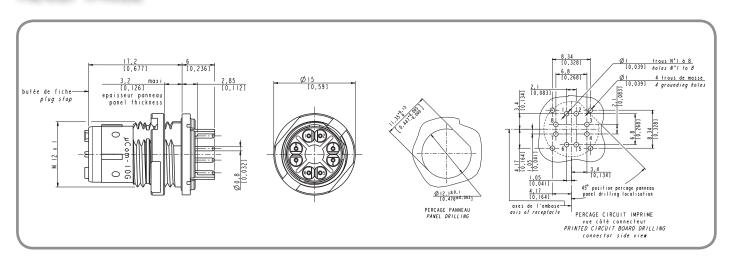
- **DEFENSE**: C4ISR, Battlefield Communications, Shipboard, Ground Vehicles Vetronics.
- AERONAUTICAL: In Flight Entertainment, Avionics, Communication Systems.
- RAIL MASS TRANSIT: Passenger Information Systems, Communication Systems.



## TRANSMISSION DATA

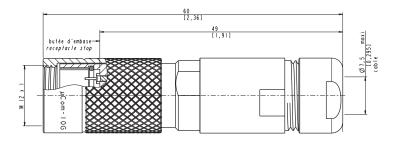


# **RECEPTACLE**

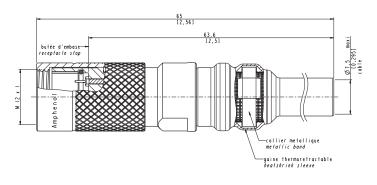


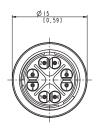
## **PLUGS & CORDSETS**

#### Plug with Gland Backshell

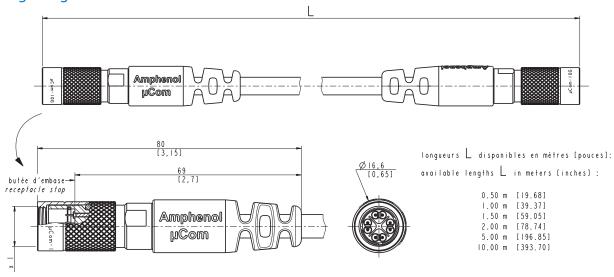


#### Plug with Band Backshell





#### Plug - Plug Cordsets



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

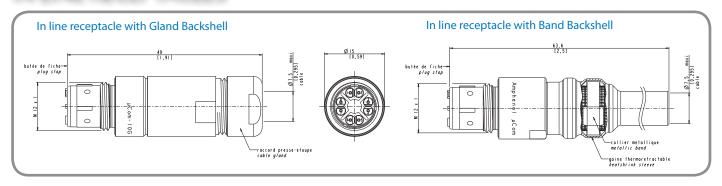


- Stranded bare copper wire (26 AWG)
- 4 Screened twisted pairs: 2 wires twisted to a pair, Alulaminate foil overlapped
- Shield braiding of tinned copper wires, about 80% coverage
- Strain member of Kevlar

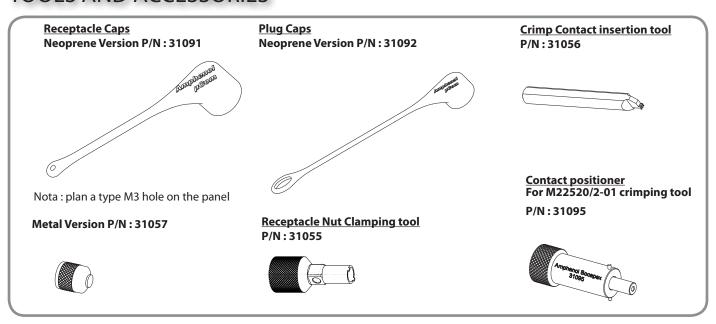
- Jacket in black Polyurethane (PUR), glossy finish, acc to DIN VDE 0282
- $\bullet$  External diameter 7.0 +/-0.3 mm
- UV & Hydrolysis resistant, Halogen free, RoHS compliant
- Max Pull force: 800 N, Weight: about 54 kg/km
- •Temperature : 40°C / + 85°C

For full dimensions, please ask for Customer Drawing

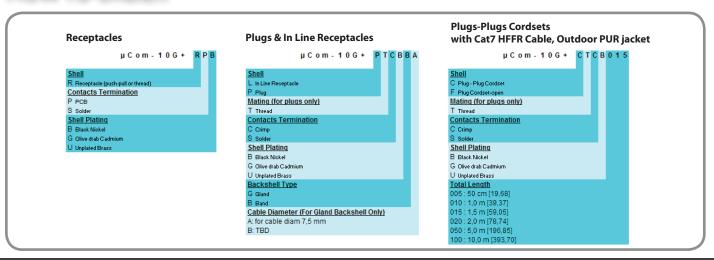
## IN LINE RECEPTACLES



## TOOLS AND ACCESSORIES



## **HOW TO ORDER**



DOC-000015-ANG