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**.

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

MAIN FEATURES

- 10Gb+ exceeds 10Gb/s Ethernet following IEEE 802.3an-2006 : 10GBase-T
- Cat.6A connector according to TIA568C.2 and ISO/IEC11801 standard
- 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 The 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 Control of M39029/77-429#16 M39029/76-425#16 38999 contact

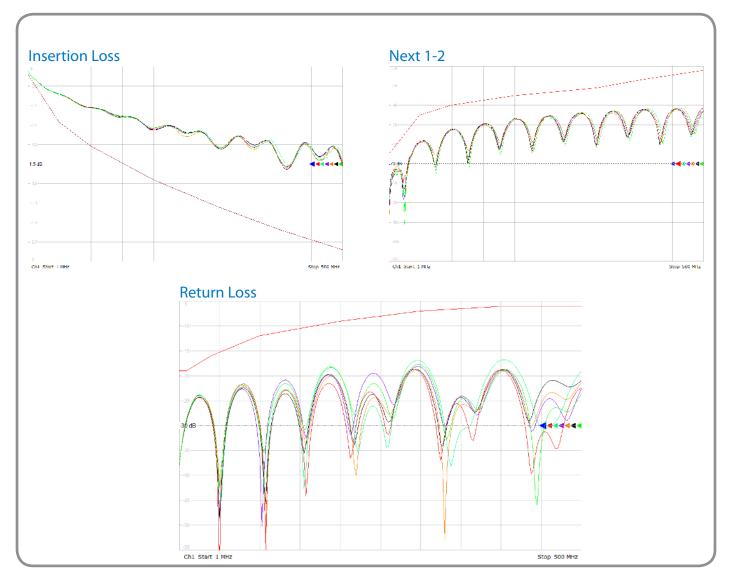
- Solder contact : max AWG24 • Crimp contact : AWG 24 to 26
- ·IP68 sealing mated and unmated for receptacles
- •1500 Vrms Dielectric Withstanding voltage
- •Temperature range : 55°C / + 125°C

MARKETS & APPLICATIONS

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

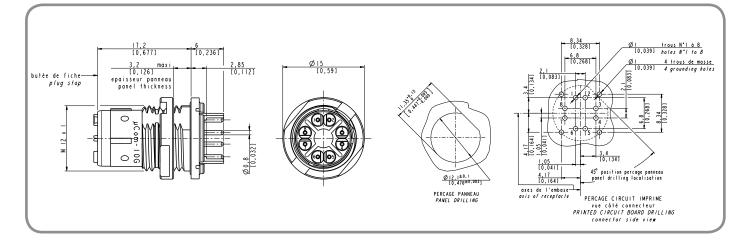


TRANSMISSION DATA



RECEPTACLE

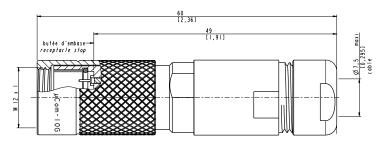
Amphenol



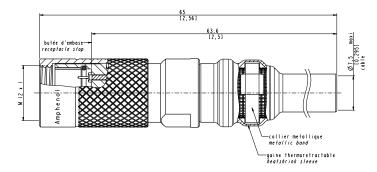


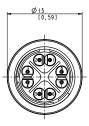
PLUGS & CORDSETS

Plug with Gland Backshell

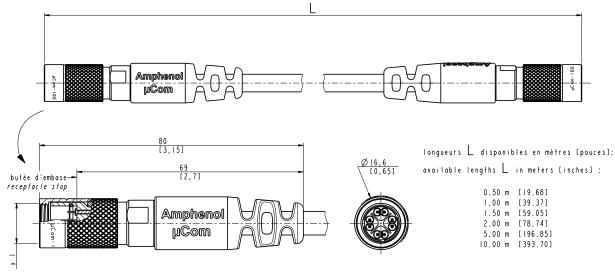


Plug with Band Backshell





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

• 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

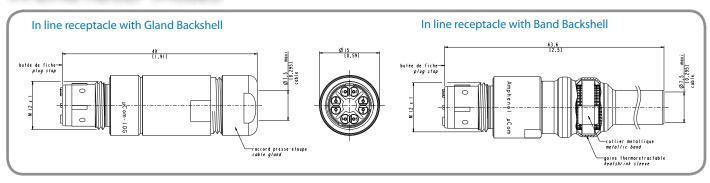
Ampheno

Socapex

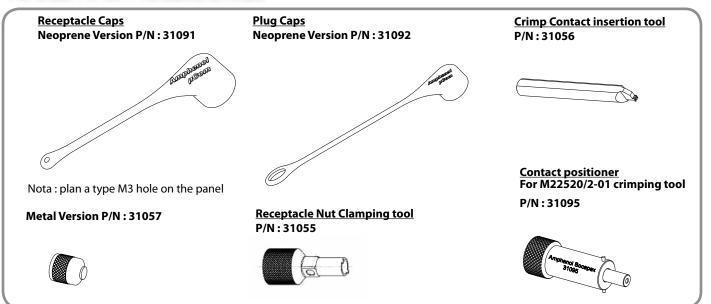
For full dimensions, please ask for Customer Drawing



IN LINE RECEPTACLES



TOOLS AND ACCESSORIES



HOW TO ORDER

| Receptacles | Plugs & In Line Receptacles | Plugs-Plugs Cordsets with Cat7 HFFR Cable, Outdoor PUR jacke |
|------------------------------------|---|---|
| μCom - 10G + <mark>R</mark> | PB μCom-10G+ PTCBBA | μCom - 10G + <mark>CTCB015</mark> |
| Shell | Shell | Shell |
| R Receptacle (push-pull or thread) | L In Line Receptacle | C Plug - Plug Cordset |
| Contacts Termination | P Plug | F Plug Cordset-open |
| P PCB | Mating (for plugs only) | Mating (for plugs only) |
| S Solder | T Thread | T Thread |
| Shell Plating | Contacts Termination | Contacts Termination |
| B Black Nickel | C Crimp | C Crimp |
| G Olive drab Cadmium | S Solder | S Solder |
| U Unplated Brass | Shell Plating | Shell Plating |
| | B Black Nickel | B Black Nickel |
| | G Olive drab Cadmium | G Olive drab Cadmium |
| | U Unplated Brass | U Unplated Brass |
| | Backshell Type | Total Length |
| | G Gland | 005 : 50 cm [19,68] |
| | B Band | 010 : 1,0 m [39,37] |
| | Cable Diameter (For Gland Backshell Only) | 015 : 1,5 m [59,05] |
| | A: for cable diam 7,5 mm | 020 : 2,0 m [78,74] |
| | B: TBD | 050 : 5,0 m [196,85] |
| | | 100 : 10,0 m [393,70] |

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For more information, you can contact us on our website <u>www.amphenol-socapex.com</u> or by calling on **+33 (0)4 50 89 28 00.**