# 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**.

#### **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 (Thread version)
- Environmental testing based on MIL-DTL-26482 military specifications (Push Pull version)
- Miniature : 15 mm(.59") max external diameter
- Receptacle and in-line receptacle compatible with both thread and Push Pull plugs

#### **FEATURES AND BENEFITS**

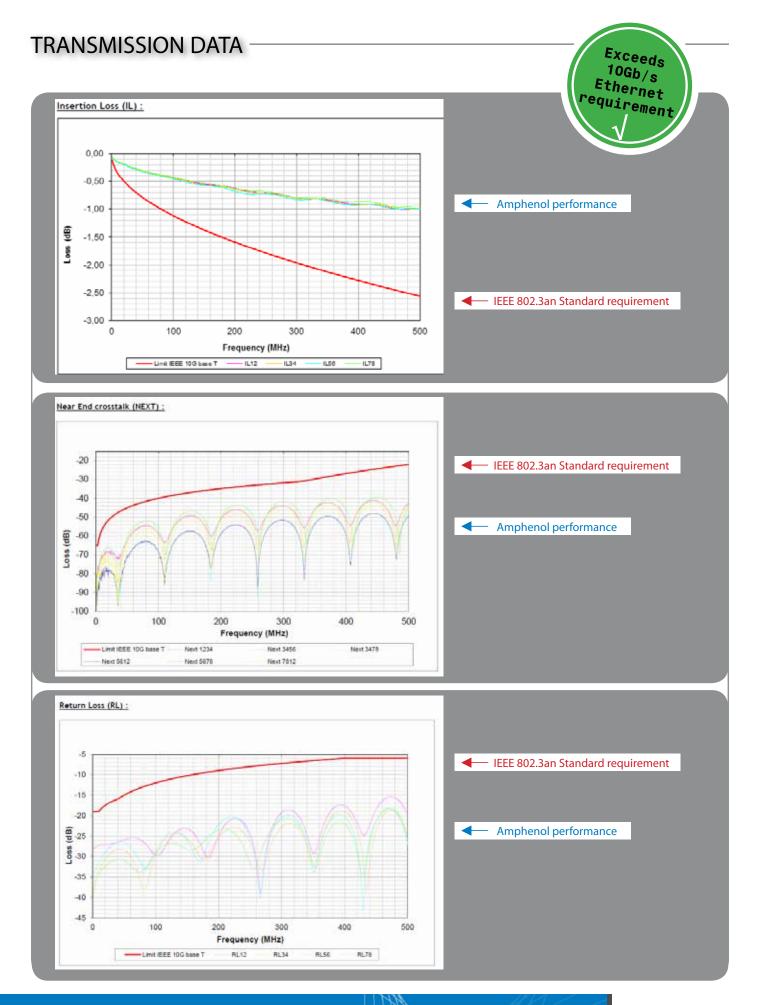
- •4 pairs totally insulated throughout the connector implimitation minimum cross-talk between the four pairs
- Patented special interfacial shapes
- minimum perturbation at the interface of each pair
- •Thread and Push Pull coupling mechanisms
- 2000 mating cycles & high vibration resistance
- Machined Brass shells
- Plating available:
   Olive Drab Cadmium → not ROHS compliant
   Black Nickel, and unplated brass → ROHS compliant
- ⇒ 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
- contacts are crimped with standard crimping tool M22520/2-01 + Amphenol μCom positioner
- Solder contact : max AWG24
- Crimp contact: AWG 24 to 28
- •IP68 sealing mated and unmated for PCB receptacles
- •1500 Vrms Dielectric Withstanding Voltage
- •Temperature range : 55°C / + 125°C

## **MARKETS & APPLICATIONS**

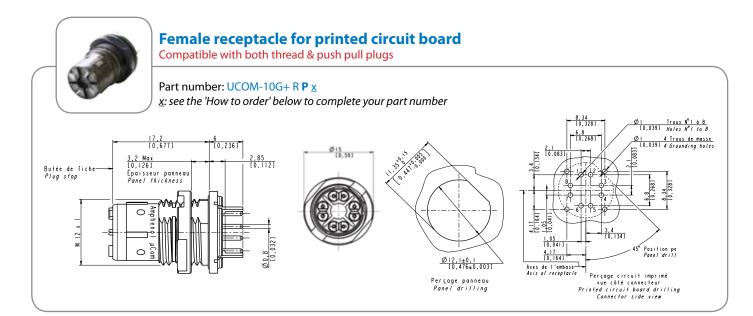
- MILITARY: C4ISR, Battlefield Communications, Shipboard, Ground Vehicles Vetronics.
- **AEROSPACE**: In Flight Entertainment\*, Avionics\*, Communication Systems.
- \*μCom approved by GORE

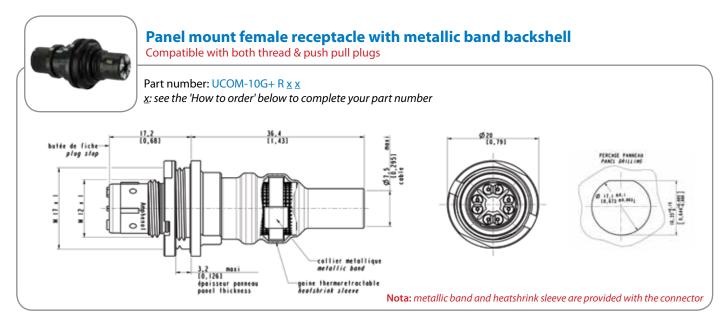




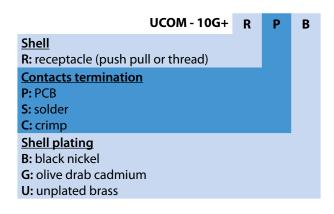


## **FEMALE RECEPTACLES**





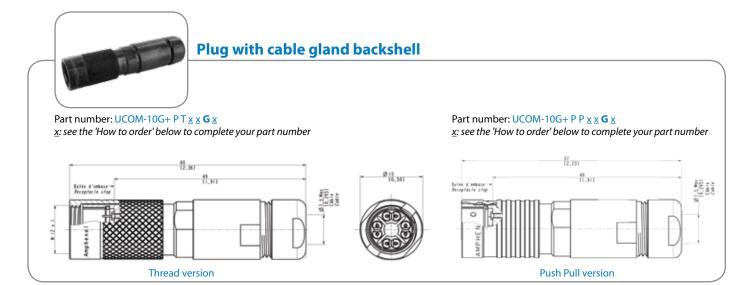
# **HOW TO ORDER Female receptacles**

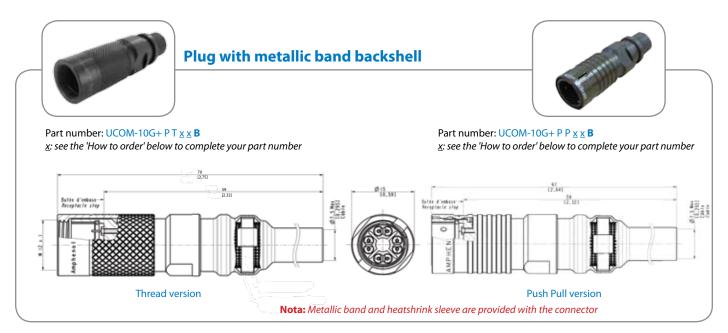


#### NOTA:

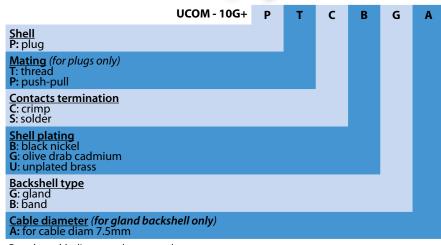
- UCOM for order designation
- **μ**Com for marking on connectors

## **MALE PLUGS**





# **HOW TO ORDER Male plugs**

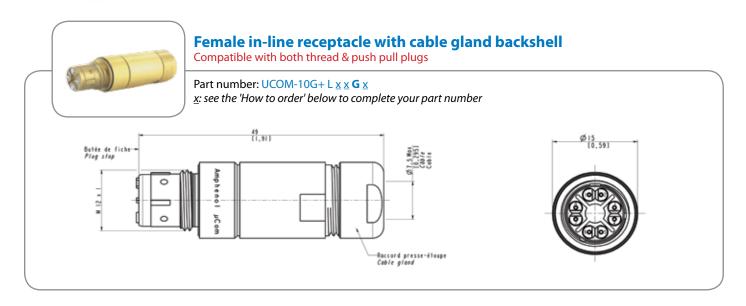


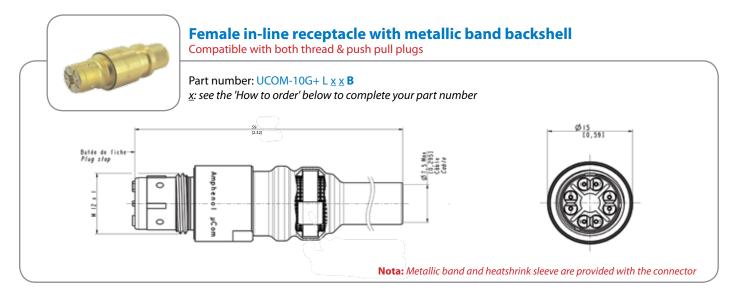
For other cable diameter, please consult us

#### NOTA:

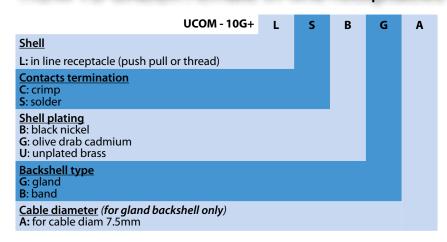
- **U**COM for order designation
- μCom for marking on connectors

## **FEMALE IN-LINE RECEPTACLES**





# **HOW TO ORDER Female in-line receptacles**



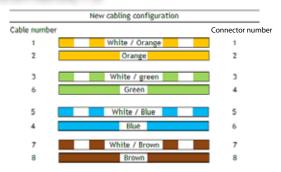
#### NOTA:

- UCOM for order designation
- µCom for marking on connectors

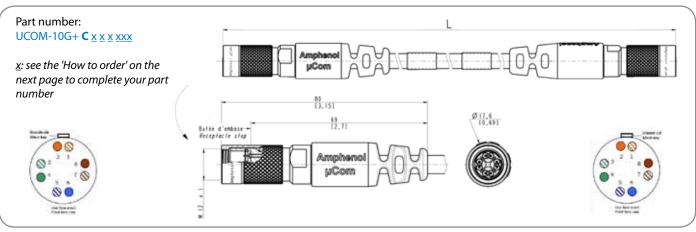
For other cable diameter, please consult us

## **CORDSETS**

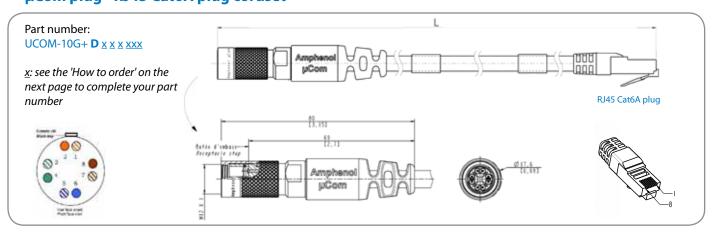




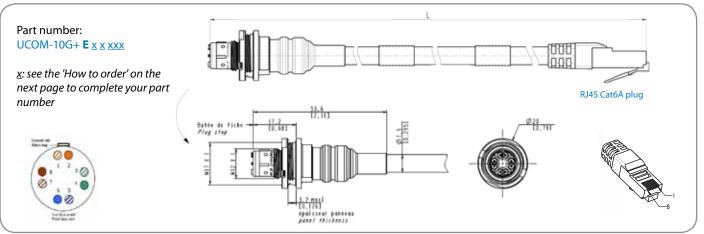
#### μCom plug - μCom plug cordset



#### μCom plug - RJ45 Cat6A plug cordset

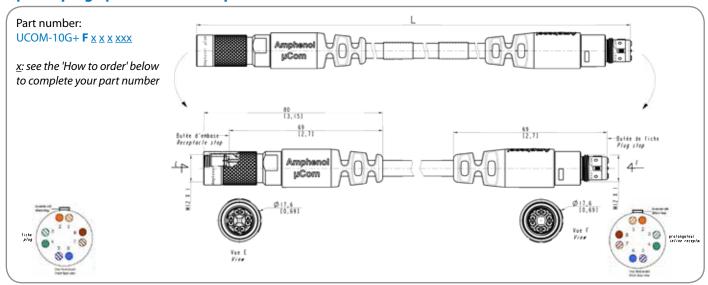


#### μCom panel mount receptacle - RJ45 Cat6A plug





#### μCom plug - μCom inline receptacle



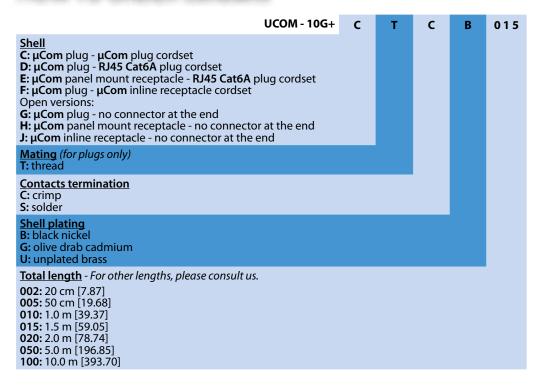
#### Type of cable used: CAT 7 HFFR - According to EN 50288-4-2



- 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
- Min. bending radius allowed: repeated 8 x Ø, single 4 x Ø

GORE ° has approved  $\mu$ Com assembled onto their cat6A cable P/N : RCN9034-24. Information available on GORE° website.

## **HOW TO ORDER Cordsets**

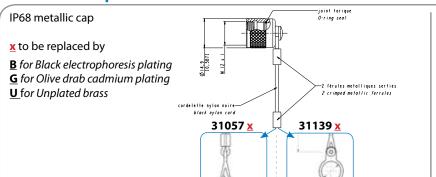


#### **NOTA:**

- UCOM for order designation
- µCom for marking on connectors

#### **ACCESSORIES**

#### **CAPS for receptacles**



| P68 metallic cap with metallic tie on panel | Or | P68 metallic cap with a Ø12 fixation ring | Nota: plan a hole on the panel

IP68 neoprene cap - Part number: **31091**Nota: plan a type M3 hole on the panel

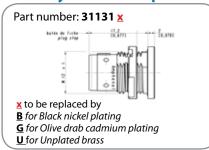
#### **CAPS for plugs**



#### **CAPS for in line receptacles**



#### **Dummy female receptacle**



#### **SPARES**



Crimp Socket Part number: **31074** 

## **TOOLS**



 Nut clamping tool for receptacle Part number: 31055
 Only for RPx receptacles Insertion tool for crimp contacts
 Part number: 31056



 Contact positioner for M22520/2-01 crimping tool Part number: 31095

#### Other tools:

 Brazing tool for receptacle & in-line receptacle Part number: 31132 Brazing tool for plug Part number: 31133

Nota: the cabling instructions are available upon demand (ref. N00-040190-00).

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