# 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 (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 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

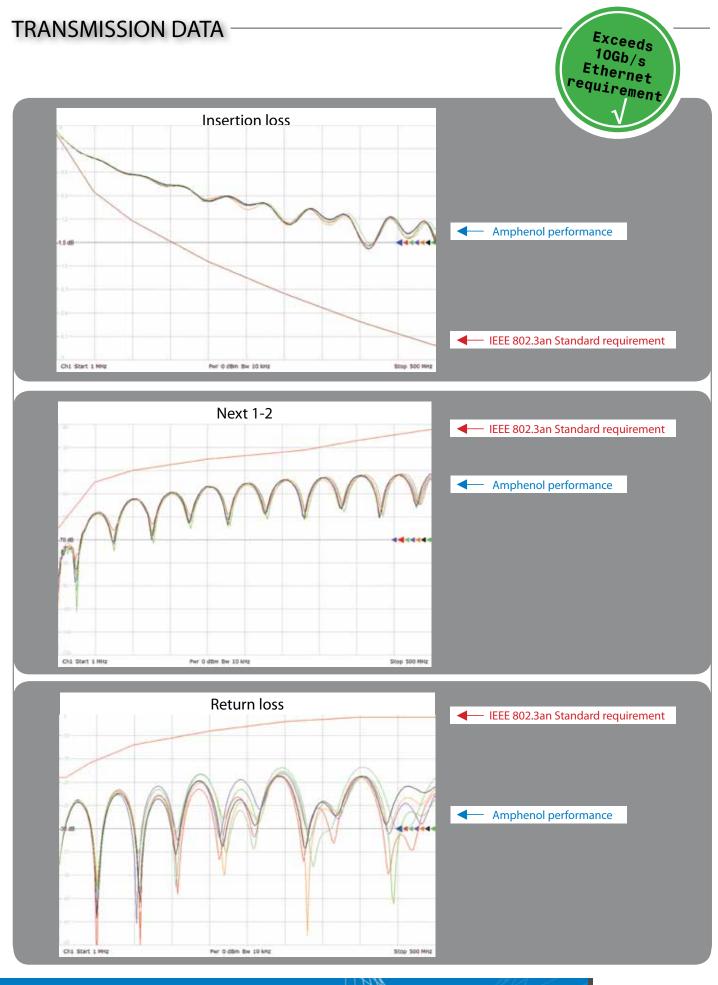
- Plating available: Olive Drab Cadmium → not ROHS compliant Black Nickel, and unplated brass → ROHS compliant
   shell to shell continuity and 500h salt spray resistance
- Machined & gold plated Solder and Crimp contacts Carbon design & performance according to the innercontact of M39029/77-429#16 M39029/76-425#16 38999 contact
- Solder contact : max AWG24 • Crimp contact : AWG 24 to 26
- ·IP68 sealing mated and unmated for PCB receptacles
- •1500 Vrms Dielectric Withstanding voltage
- •Temperature range : 55°C / + 125°C

# MARKETS & APPLICATIONS

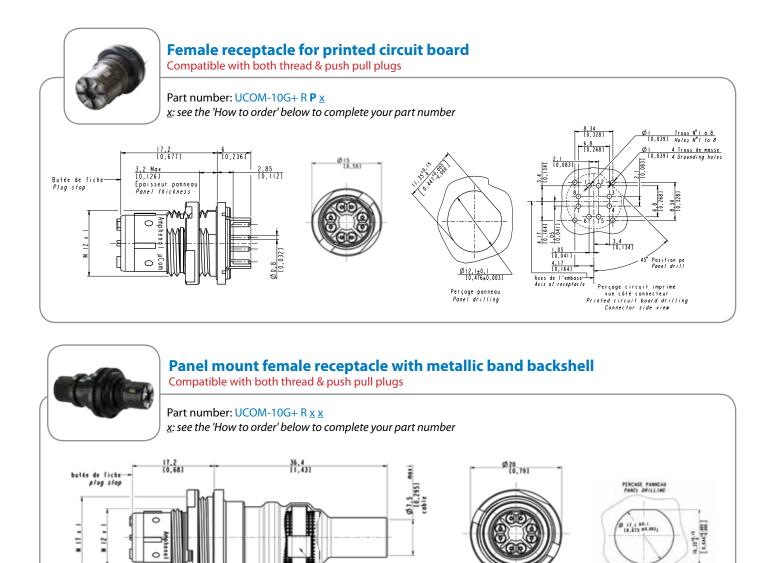
- DEFENSE : C4ISR, Battlefield Communications, Shipboard, Ground Vehicles Vetronics.
- AERONAUTICAL : In Flight Entertainment, Avionics, Communication Systems.
- RAIL MASS TRANSIT : Passenger Information Systems, Communication Systems.



# Amphenol Socapex

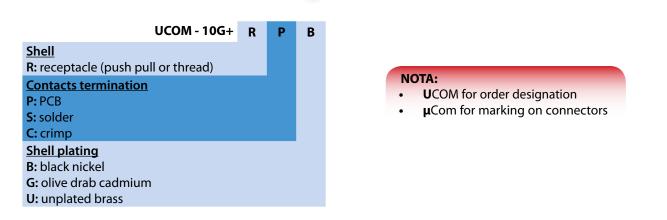


## FEMALE RECEPTACLES



# HOW TO ORDER Female receptacles

3,2 maxi [0,126] épaisseur panneau panel thickness



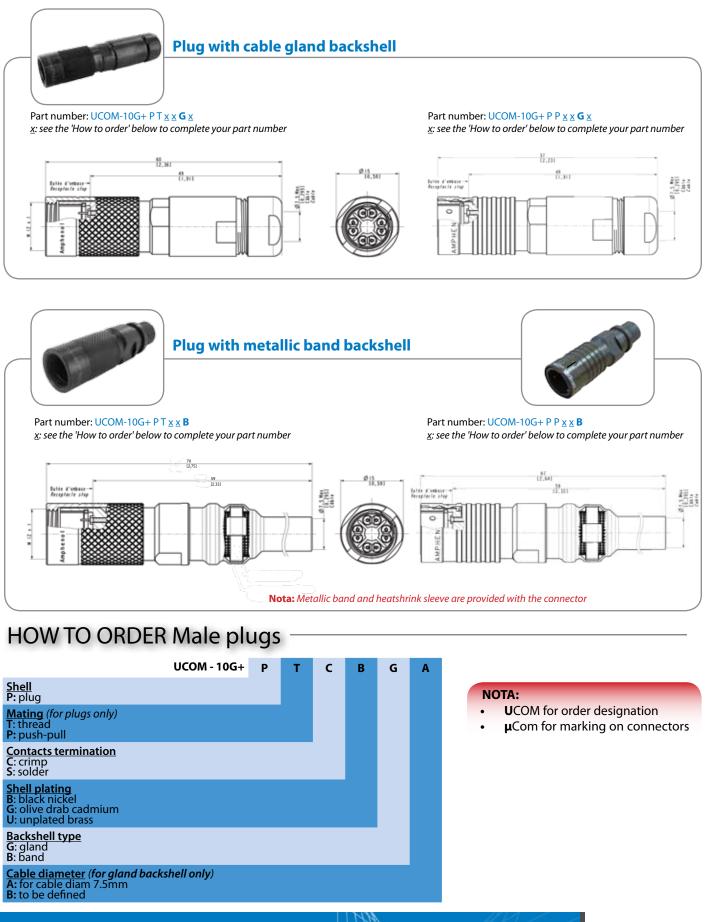
collier metallique metallic band

Nota: metallic band and heatshrink sleeve are provided with the connector

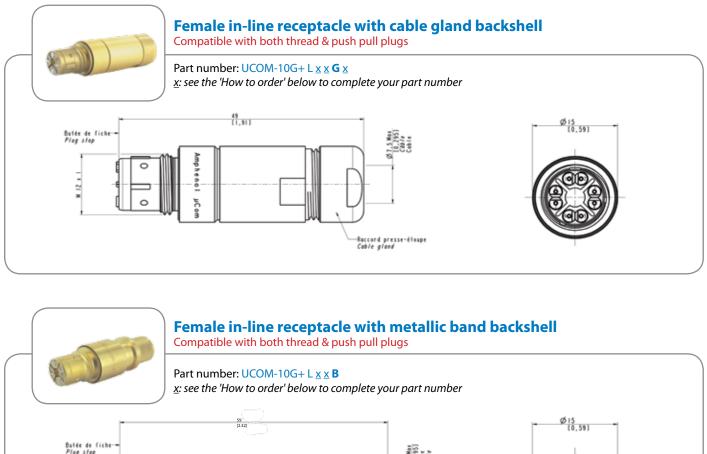
gaine thermoretraclable *healsbrink sleere* 

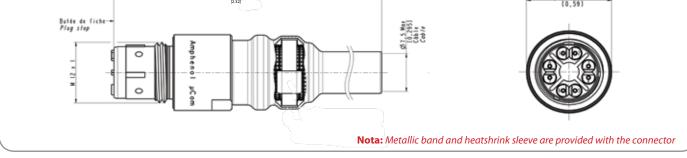


### MALE PLUGS

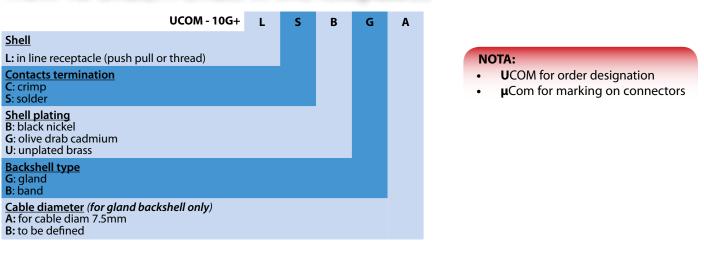


# FEMALE IN-LINE RECEPTACLES





# HOW TO ORDER Female in-line receptacles

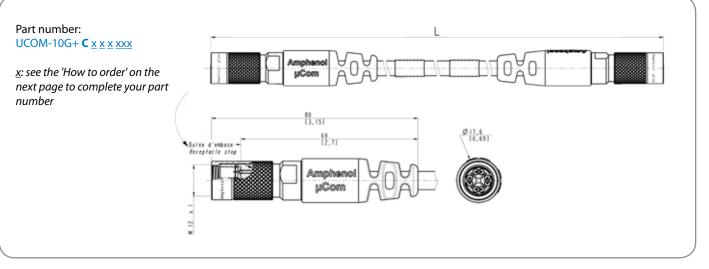




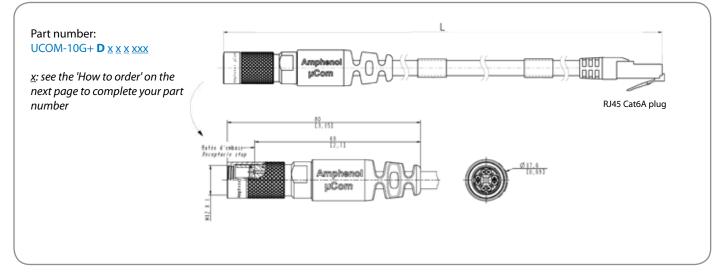
# CORDSETS



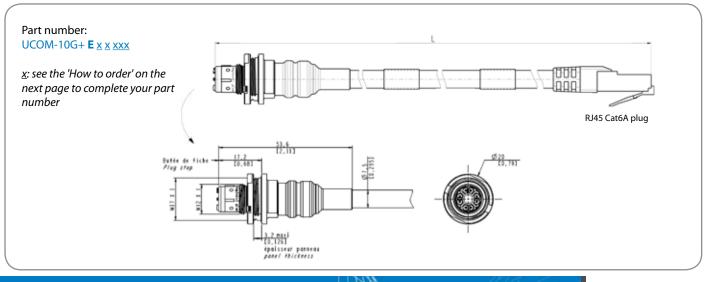
#### μCom plug - μCom plug cordset



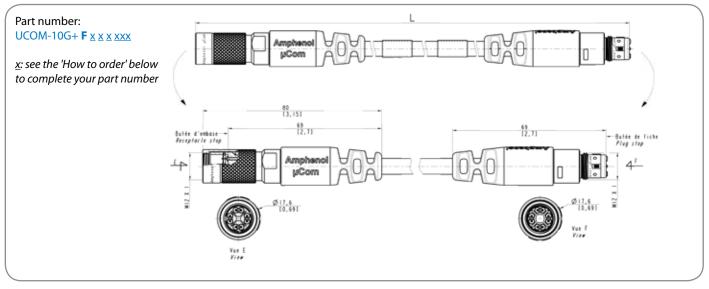
#### μCom plug - RJ45 Cat6A plug cordset



#### 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



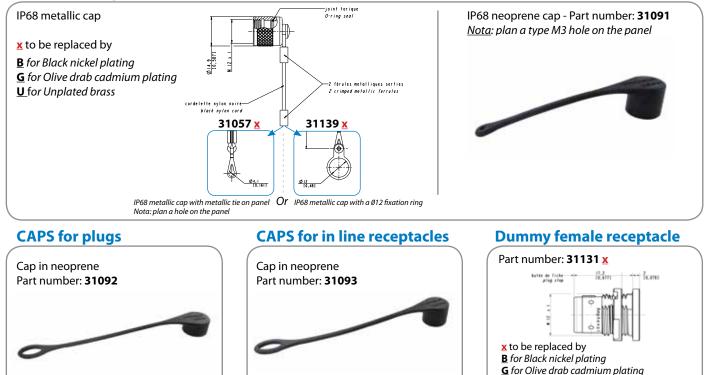
- External diameter 7.0 +/-0.3 mm
- UV & Hydrolysis resistant, Halogen free, RoHS compliant
- Max Pull force: 800 N, Weight : about 54 kg/km
- Temperature : 40°C / + 85°C
- Min. bending radius allowed: repeated 8 x Ø, single 4 x Ø

# HOW TO ORDER Cordsets

UCOM - 10G+ C	т	c	В	015		
Shell      C: μCom plug - μCom plug cordset      D: μCom plug - RJ45 Cat6A plug cordset      E: μCom panel mount receptacle - RJ45 Cat6A plug cordset      F: μCom plug - μCom inline receptacle cordset      Open versions:      G: μCom plug - no connector at the end      H: μCom panel mount receptacle - no connector at the end      J: μCom inline receptacle - no connector at the end      Mating (for plugs only)						
T: thread						
<u>Contacts termination</u> C: crimp S: solder						
<mark>Shell plating</mark> B: black nickel G: olive drab cadmium U: unplated brass						
<u>Total length</u> - For other lengths, please consult us. 002: 20 cm [7.87] 005: 50 cm [19.68] 010: 1.0 m [39.37] 015: 1.5 m [59.05] 020: 2.0 m [78.74]						

# ACCESSORIES

#### **CAPS for receptacles**



# TOOLS



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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.** 

**U** for Unplated brass

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