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 The 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

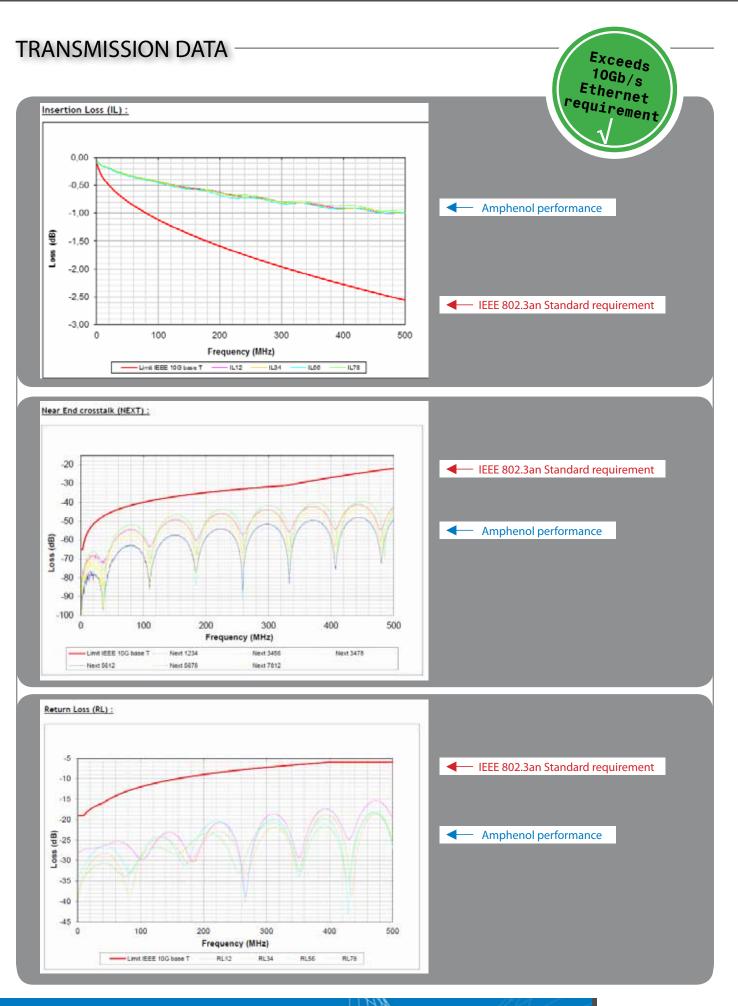
- Plating available: Olive Drab Cadmium → not ROHS compliant Black Nickel, and unplated brass → ROHS compliant
 shell to shell continuity and 500h salt spray resistance
- Machined & gold plated Solder and Crimp contacts
 design & performance according to the innercontact of M39029/77-429#16 M39029/76-425#16 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

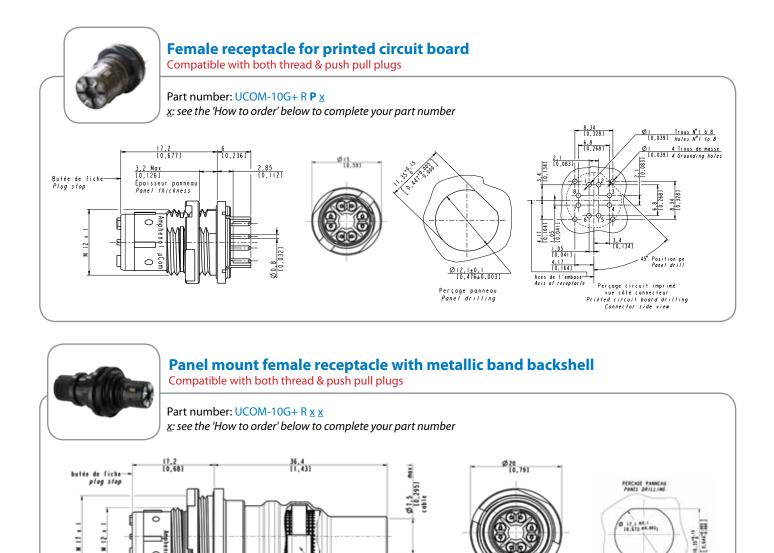
- MILITARY: C4ISR, Battlefield Communications, Shipboard, Ground Vehicles Vetronics.
- **AEROSPACE :** In Flight Entertainment*, Avionics*, Communication Systems.
- *µCom approved by GORE



Amphenol Socapex

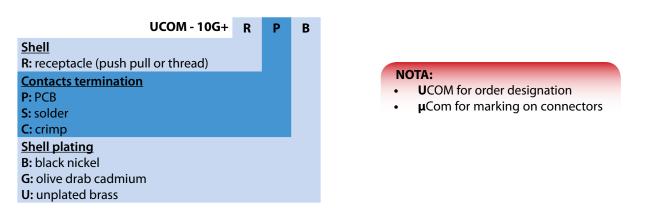


FEMALE RECEPTACLES



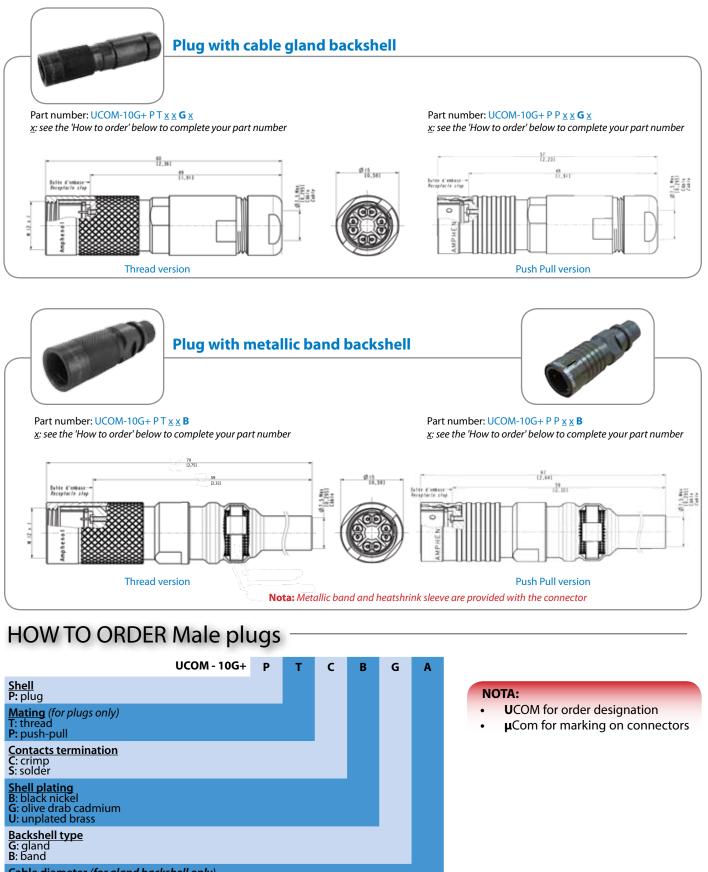
collier metallique de la connector Nota: metallic band and heatshrink sleeve are provided with the connector

HOW TO ORDER Female receptacles



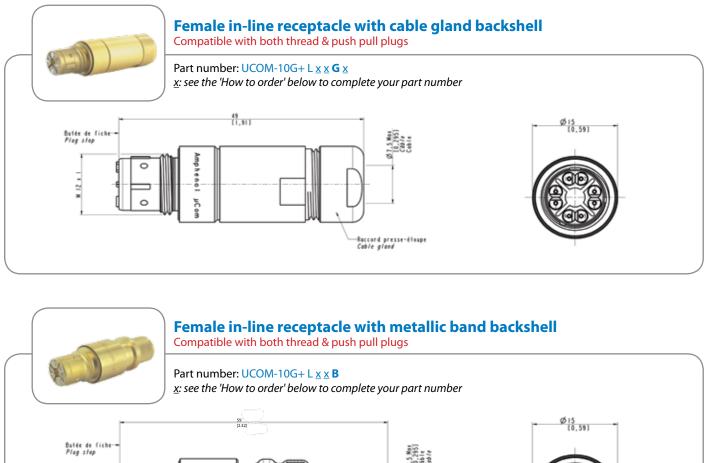


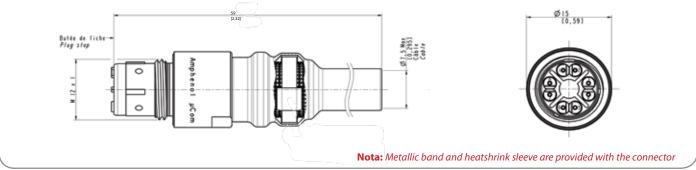
MALE PLUGS



Cable diameter (for gland backshell only) A: for cable diam 7.5mm For other cable diameter, please consult us

FEMALE IN-LINE RECEPTACLES





HOW TO ORDER Female in-line receptacles

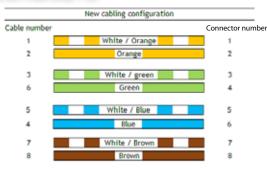
L	S	В	G	Α	
	L	LS	L S B	L S B G	L S B G A

NOTA:

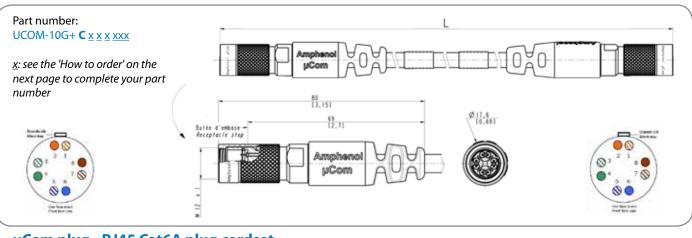
- **U**COM for order designation
- µCom for marking on connectors

Amphenol Socapex

CORDSETS



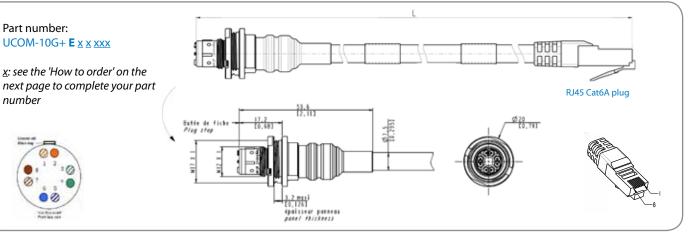
μCom plug - μCom plug cordset



µCom plug - RJ45 Cat6A plug cordset

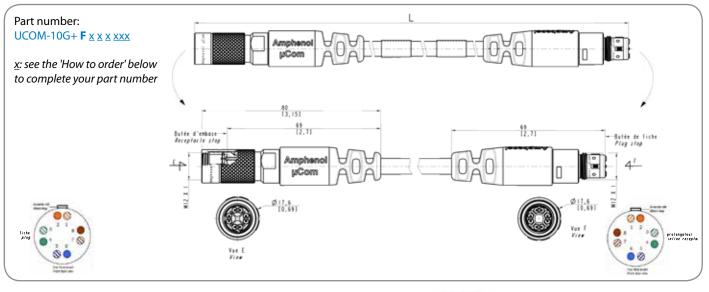
Part number: UCOM-10G+ $\mathbf{D} \underline{\mathbf{x}} \underline{\mathbf{x}} \underline{\mathbf{x}} \underline{\mathbf{xxx}}$ wCom. 000 <u>x</u>: see the 'How to order' on the next page to complete your part RJ45 Cat6A plug number 80 [3,15] 69 [2,7] Batte d'embase-Receptorie stap 17.6 pCom 0 X 210 the loss start

µCom panel mount receptacle - RJ45 Cat6A plug



number

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 $^{\circ}$ has approved μCom assembled onto their cat6A cable P/N : RCN9034-24. Information available on GORE $^{\circ}$ website.

HOW TO ORDER Cordsets

UCOM - 10G+	С	т	с	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					
<u>Mating</u> (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					
Total length - 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] 050: 5.0 m [196.85] 100: 10.0 m [393.70]					

ACCESSORIES

CAPS for receptacles joint torique *O-ring seal* IP68 metallic cap IP68 neoprene cap - Part number: 31091 Nota: plan a type M3 hole on the panel x to be replaced by 014.9 [0,587 **B** for Black electrophoresis plating 12 **G** for Olive drab cadmium plating férules metalliques serties crimped metallic ferrules **U** for Unplated brass cordelette nylon noire black nylon cord 31057 x 31139 <u>x</u> Ø12 [0,48] Ø4,1 [0,161] IP68 metallic cap with metallic tie on panel Or IP68 metallic cap with a Ø12 fixation ring Nota: plan a hole on the panel **CAPS for plugs CAPS for in line receptacles Dummy female receptacle** Part number: 31131 x Cap in neoprene Cap in neoprene butte de fiche-plag stap 12 m 11 6.00 Part number: 31092 Part number: 31093 x to be replaced by **B** for Black nickel plating **G** for Olive drab cadmium plating **U** for Unplated brass SPARES **Crimp** Pin Crimp Socket Part number: 31073 Part number: 31074 TOOLS Contact positioner for Nut clamping tool for receptacle Insertion tool for crimp contacts . M22520/2-01 crimping tool Part number: 31055 Part number: 31056 Part number: 31095 Only for RPx receptacles Other tools: Brazing tool for receptacle & in-line receptacle Brazing tool for plug Part number: 31132 Part number: 31133 Nota: the cabling instructions are available upon demand (ref. N00-040190-00).

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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.**

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