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**.

 μ Com-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

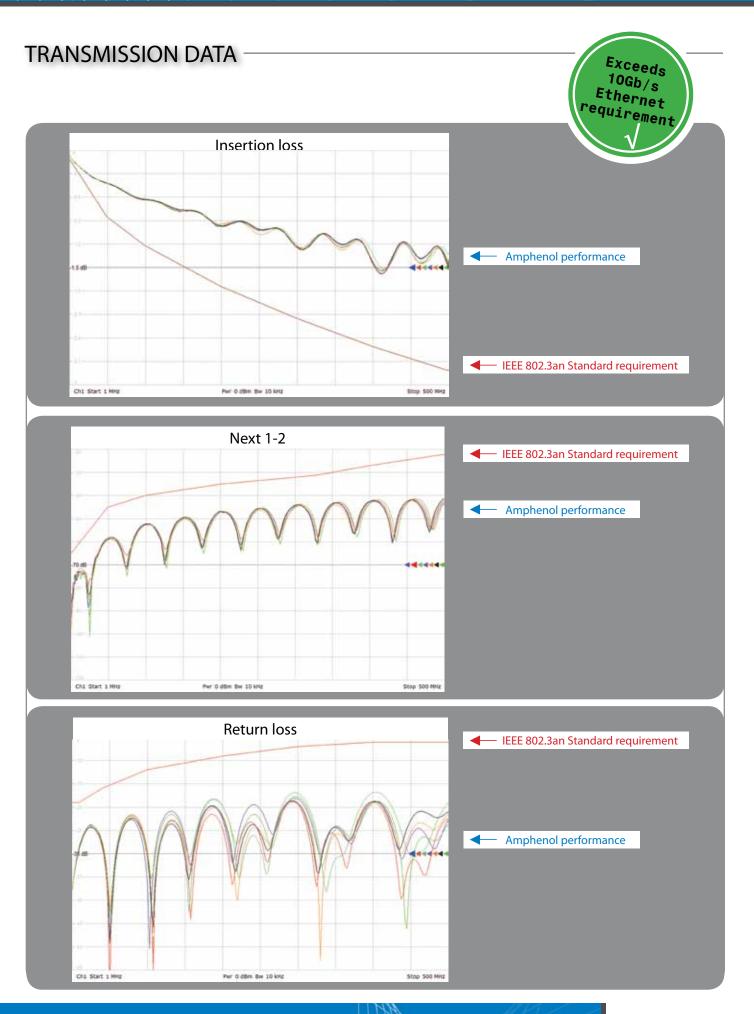
- 4 pairs totally insulated throughout the connector
 minimum cross-talk between the four pairs
- Patent pending special interfacial shapes
 minimum perturbation at the interface of each pair
- •Thread coupling mechanism⇒ 2000 mating cycles & high vibration resistance
- Machined Brass shells and RoHS 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

MARKETS & APPLICATIONS

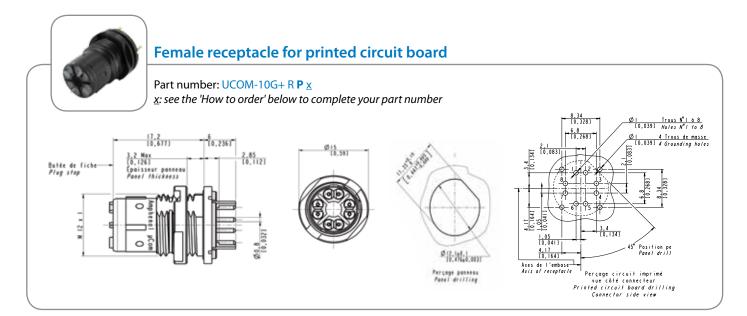
- **DEFENSE**: C4ISR, Battlefield Communications, Shipboard, Ground Vehicles Vetronics.
- AERONAUTICAL: In Flight Entertainment, Avionics, Communication Systems.
- RAIL MASS TRANSIT: Passenger Information Systems, Communication Systems.

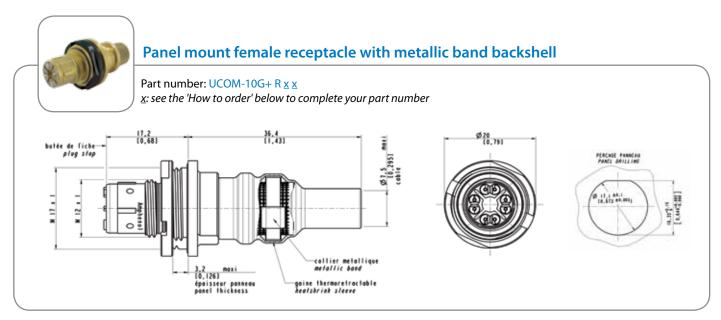




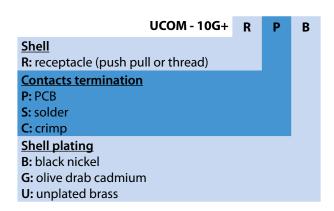


FEMALE RECEPTACLES



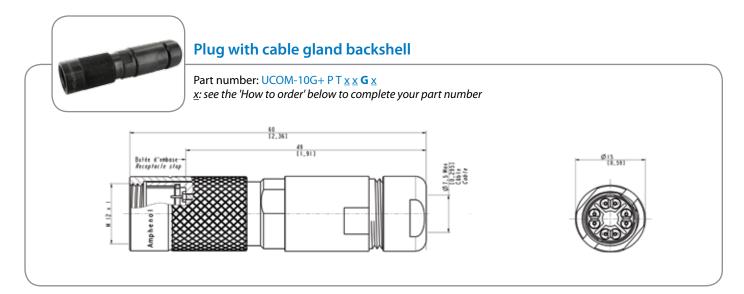


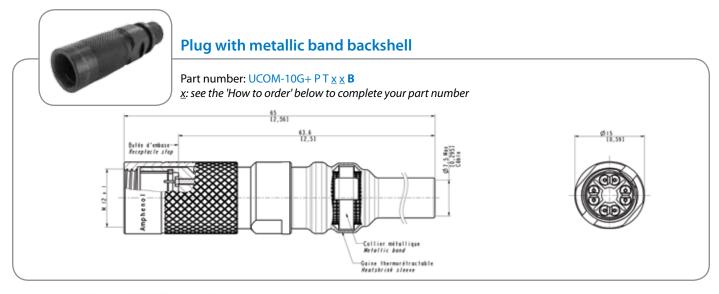
HOW TO ORDER Female receptacles



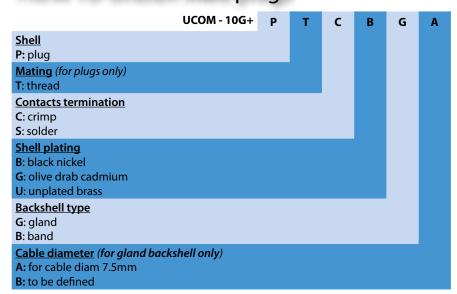
- UCOM for order designation
- µCom for marking on connectors

MALE PLUGS





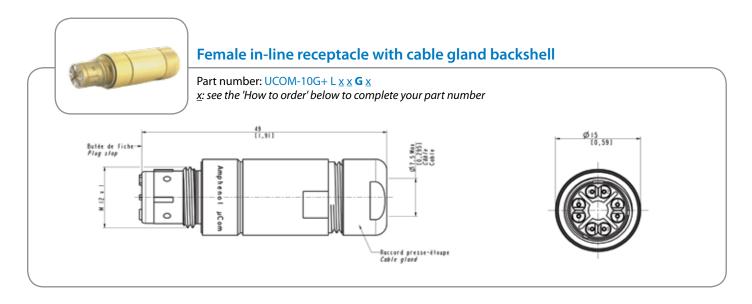
HOW TO ORDER Male plugs

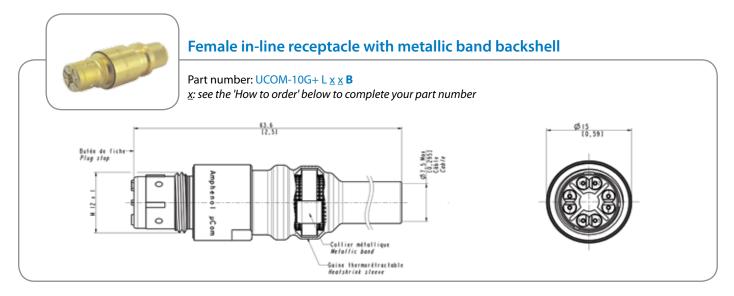


- UCOM for order designation
- μCom for marking on connectors

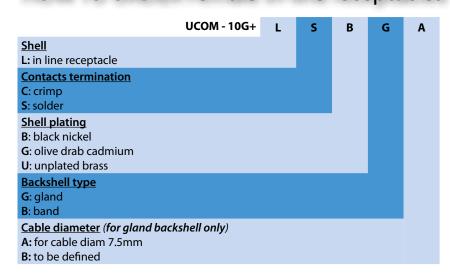


FEMALE IN-LINE RECEPTACLES





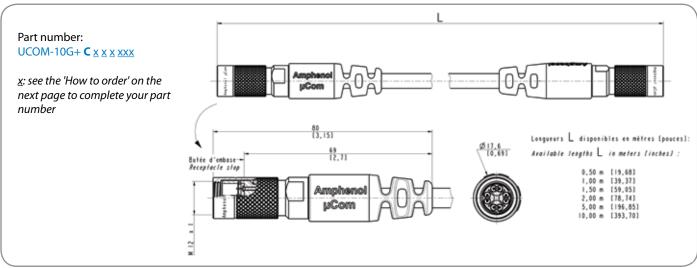
HOW TO ORDER Female in-line receptacles



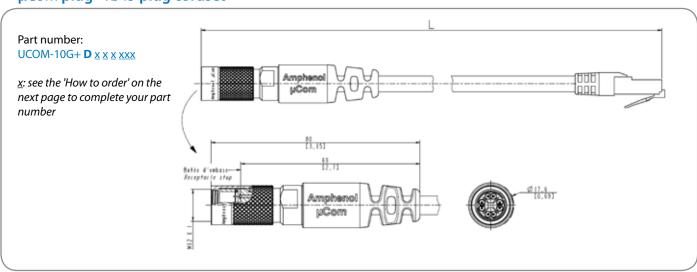
- UCOM for order designation
- µCom for marking on connectors

CORDSETS

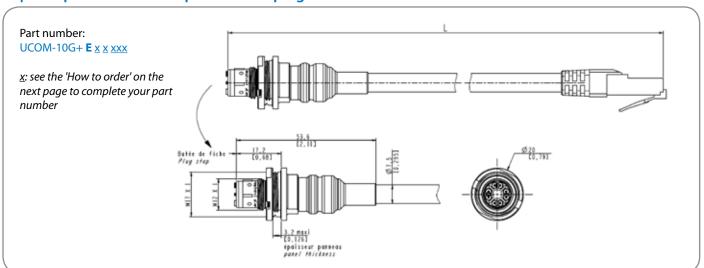
μCom plug - μCom plug cordset



μCom plug - RJ45 plug cordset

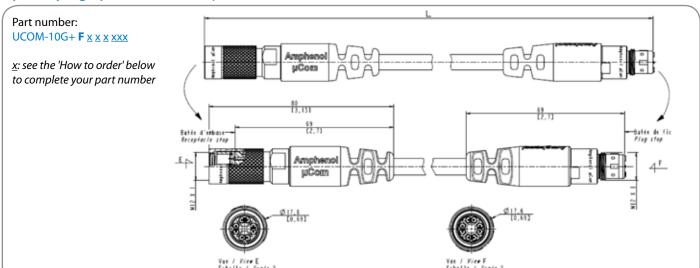


μCom panel mount receptacle - RJ45 plug





μ Com plug - μ Com inline receptacle



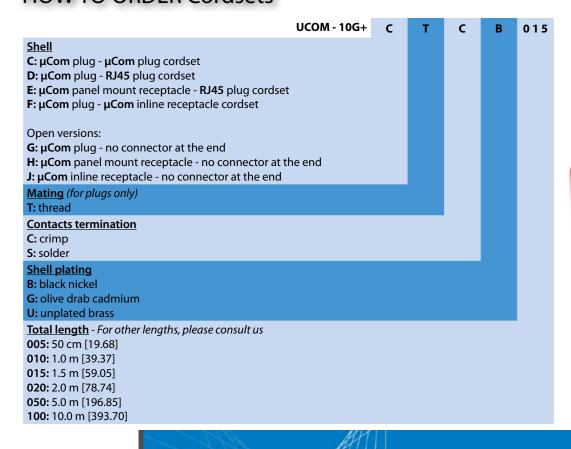
Type of cable used: CAT 7 HFFR - According to EN 50288-4-2



- 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

HOW TO ORDER Cordsets



- UCOM for order designation
- μCom for marking on connectors

ACCESSORIES

CAPS for receptacles

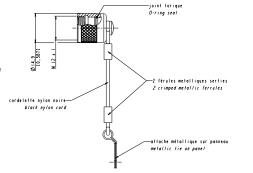
IP68 metallic cap Part number: 31057 x

x to be replaced by

B for Black nickel plating

G for Olive drab cadmium plating

U for Unplated brass



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

CAPS for plugs

Cap in neoprene Part number: 31092



CAPS for in line receptacles

Cap in neoprene Part number: 31093



Dummy female receptacle

Part number: 31131 x 17.2 Bullée de l'iche --1 44 frame

x to be replaced by

B for Black nickel plating

G for Olive drab cadmium plating

U for Unplated brass

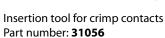
TOOLS



Nut clamping tool for receptacle Part number: 31055

Other tools: Brazing tool for receptacle Part number: 31132







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

Brazing tool for plug Part number: 31133

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

31057U 31091 31093 31057G 31055 31056 31095 31057B 31092