

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

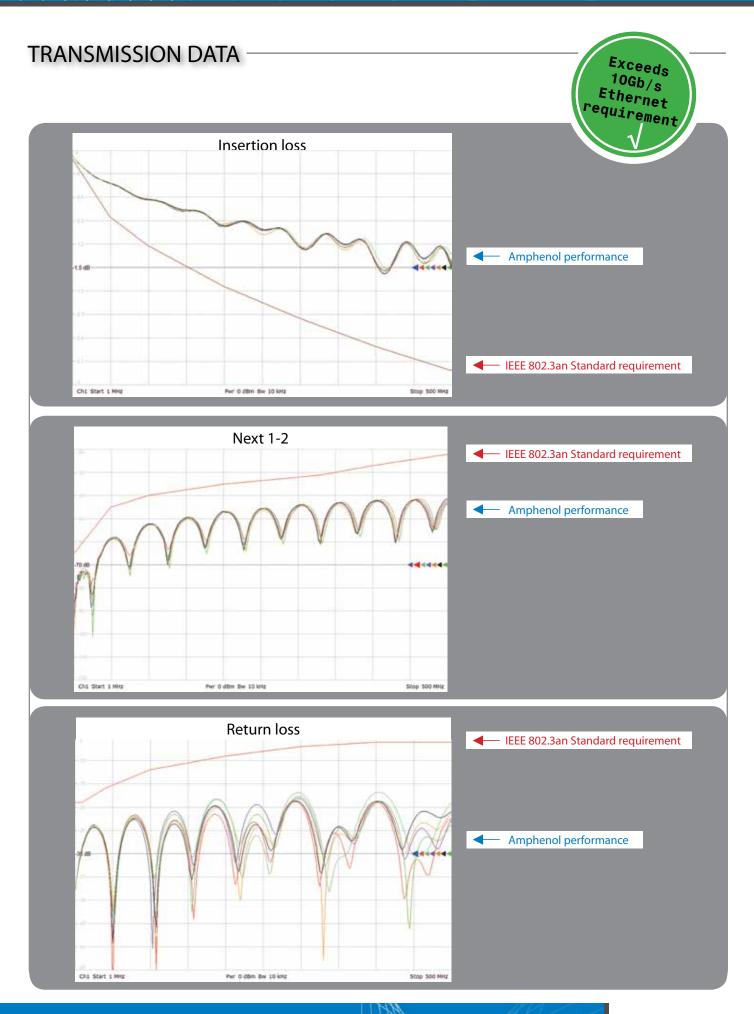
- 4 pairs totally insulated throughout the connector
 minimum cross-talk between the four pairs
- Patent pending special interfacial shapes
 minimum perturbation at the interface of each pair
- Thread coupling mechanism2000 mating cycles & high vibration resistance
- Machined Brass shells and RoHS compliant 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

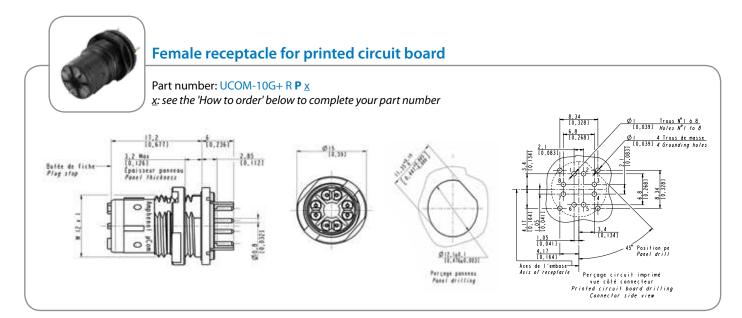
- **DEFENSE**: C4ISR, Battlefield Communications, Shipboard, Ground Vehicles Vetronics.
- AERONAUTICAL: In Flight Entertainment, Avionics, Communication Systems.
- RAIL MASS TRANSIT: Passenger Information Systems, Communication Systems.

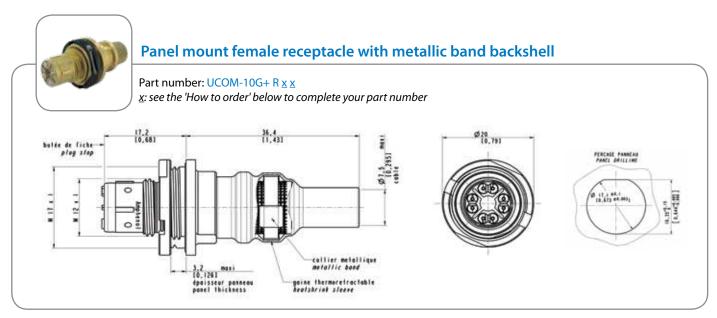




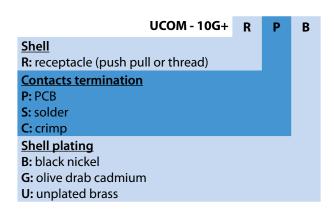


FEMALE RECEPTACLES



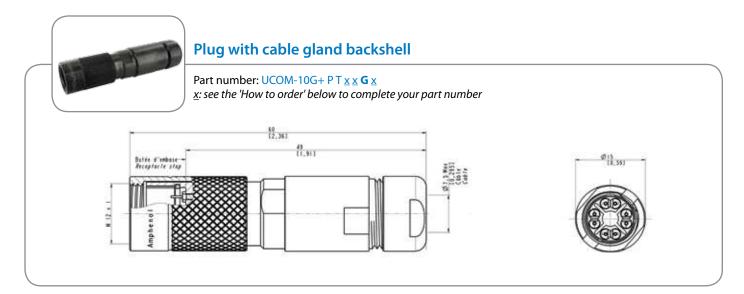


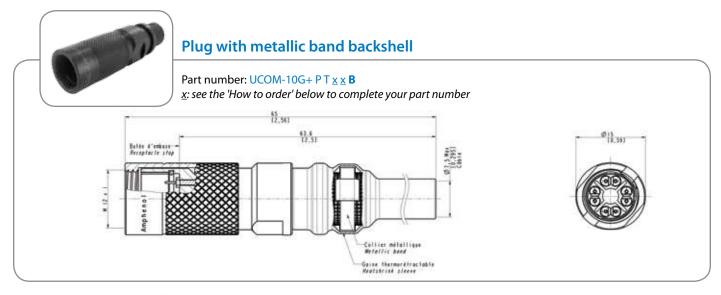
HOW TO ORDER Female receptacles



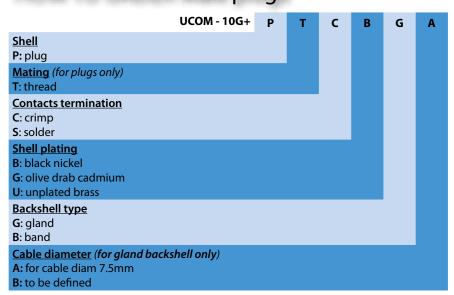
- UCOM for order designation
- µCom for marking on connectors

MALE PLUGS





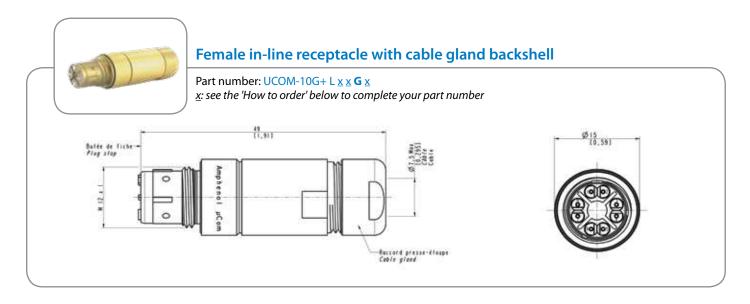
HOW TO ORDER Male plugs

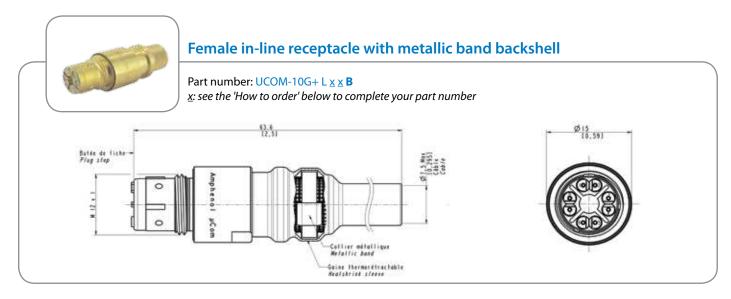


- **U**COM for order designation
- µCom for marking on connectors

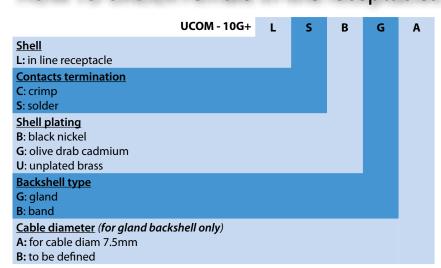


FEMALE IN-LINE RECEPTACLES





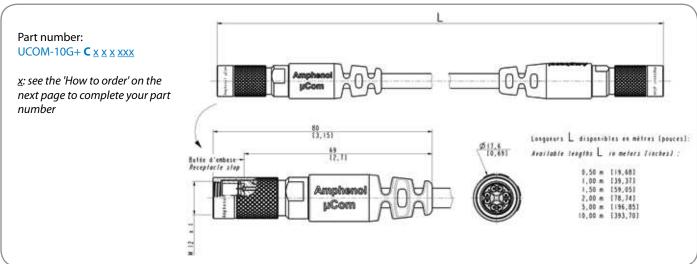
HOW TO ORDER Female in-line receptacles



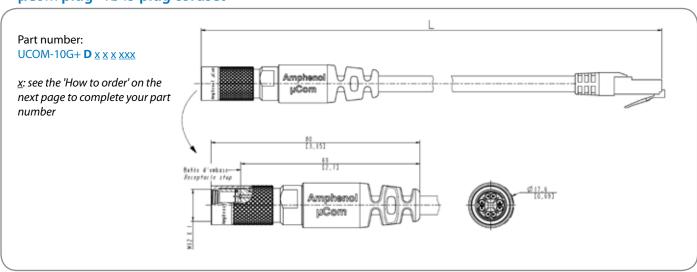
- UCOM for order designation
- μCom for marking on connectors

CORDSETS

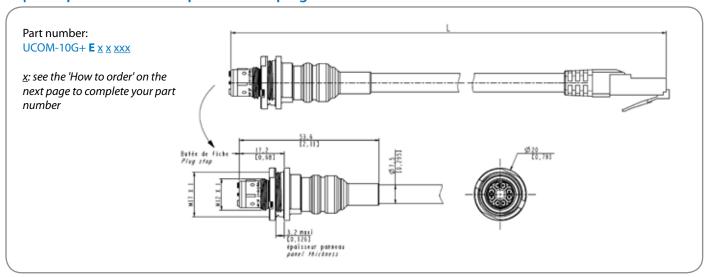
μCom plug - μCom plug cordset



μCom plug - RJ45 plug cordset

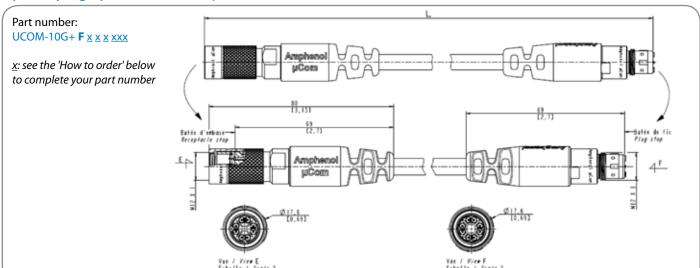


μCom panel mount receptacle - RJ45 plug





μCom plug - μCom inline receptacle



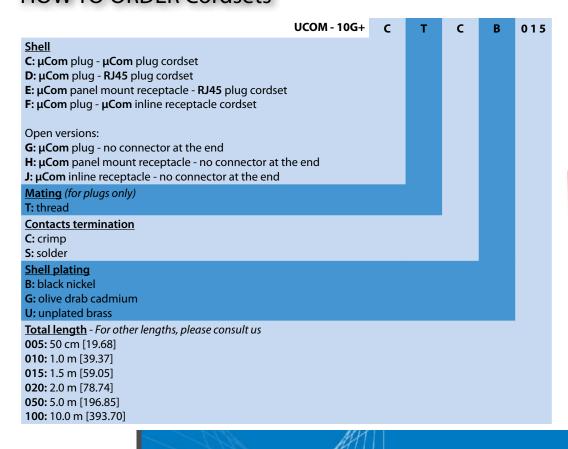
Type of cable used: CAT 7 HFFR - According to EN 50288-4-2



- 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

HOW TO ORDER Cordsets



- UCOM for order designation
- µCom for marking on connectors

ACCESSORIES

CAPS for receptacles

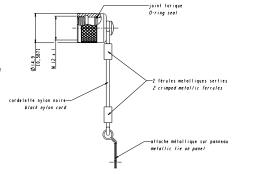
IP68 metallic cap Part number: 31057 x

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

Edited by AMPHENOL SOCAPEX - October 10, 2013.



Part number: 31056





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

Brazing tool for plug Part number: 31133