

Description

μCom-Series is a new range of connectors designed to address the latest trends of the military industry: miniaturization and high speed, with the highest resistance for use in the harshest environments. TV μCom combines μCom-10G+ speed with 38999 Series III size 11 shells robustness.

Main Features

- Based on MIL-DTL-38999 series III Shell size 11
- 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
- · 4 pairs totally insulated throughout the connector
- Minimum cross-talk between the four pairs
- · Patented special interfacial shapes
- Minimum perturbation at the interface of each pair
- 38999 size 11 shell
- Aluminium shell*:

Olive Drab Cadmium ▶ salt spray: 500h

Nickel

▶ salt spray: 48h ✓

Black Zinc Nickel ► salt spray: 500h ✓

- Marine bronze shell ✓

▶ salt spray: 500h

- · Machined & gold plated Solder and Crimp contacts
- Design & performance according to the innercontact of M39029/77-429#16 M39029/76- 425#16 38999 coaxial contact
- Contacts are crimped with standard crimping tool M22520/2-01
- + Amphenol µCom positioner
- · µCom contact module: machined brass
- · 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

*Please contact us for other plating options

: RoHS compliant

Markets & Applications



C4ISR, Battlefield, Ground vehicles



Navy

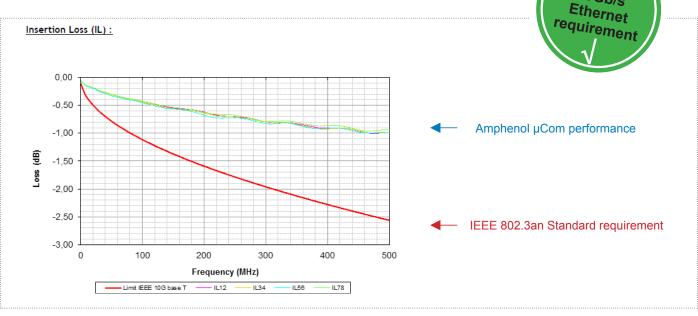


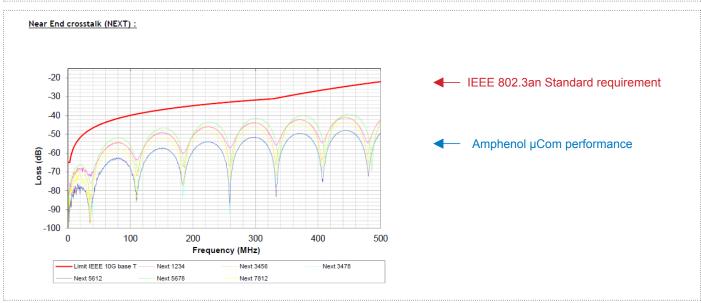


Applications:

Shipboard, In Flight Entertainment * *µCom approved by GORE

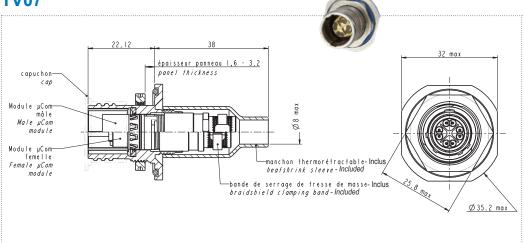
Data Transmission

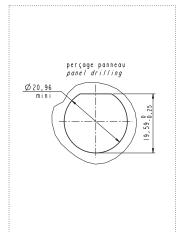






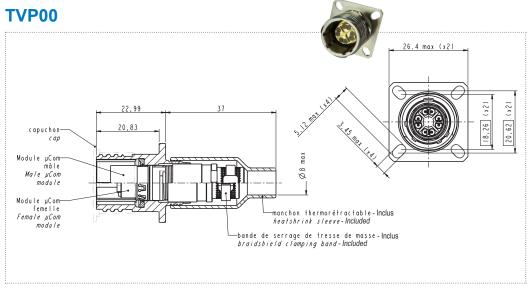
Standard Receptacles TV07

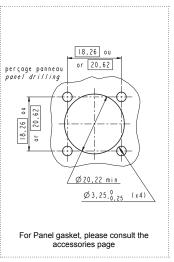




TV07 UCOM X X -11 X

Panel Drilling





TVP00 UCOM X X -11 X

Panel Drilling

How to order standard receptacles

Series	TV	07	UCOM	С	W	-11	S
Shell type 07: Jam nut receptacle P00: Square flange receptacle							
UCOM							
Contacts termination C: Crimp S: Solder							
Shell material and finish* W: Aluminium shell - Olive drab cadmium plating F: Aluminium shell - Nickel plating Zh: Aluminium shell - Black zinc nickel plating B: Marine bronze shell							
Shell size 11							
Type of contact P: Male μCom module S: Female μCom module							

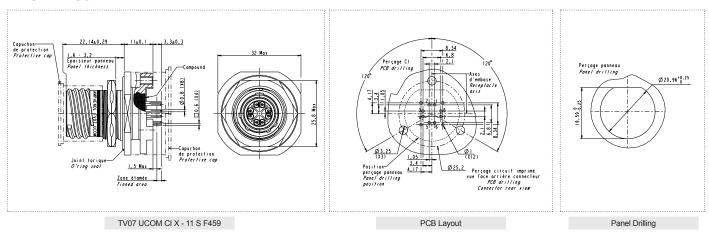
Examples: TV 07 UCOM C W -11 S; TV P00 UCOM S W -11 S

✓: RoHS compliant

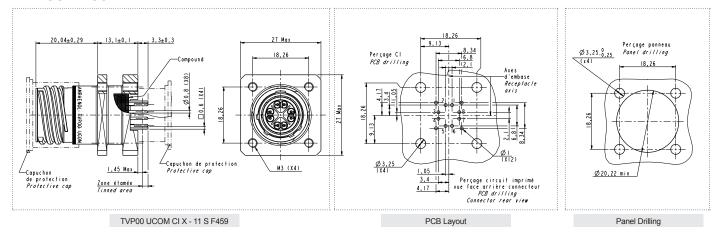
^{*} Please contact us for other plating options

Stand off Receptacles

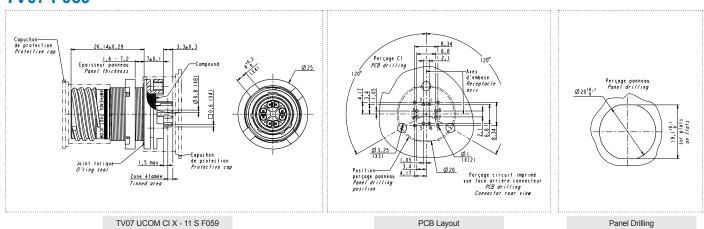
TV07 F459



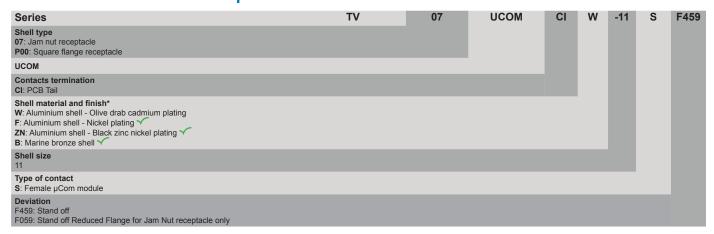
TVP00 F459



Stand off Reduced Flange Receptacle TV07 F059



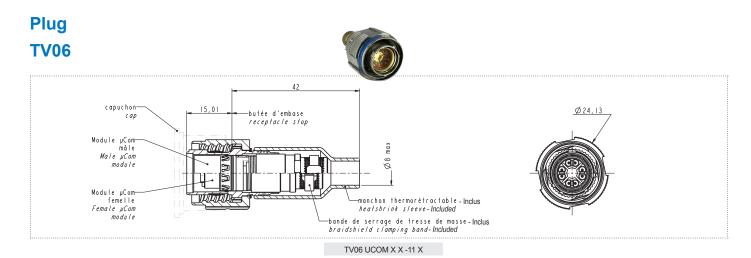
How to order stand off receptacles



Example: TV07UCOMCIF-11SF459

✓: RoHS compliant

^{*} Please contact us for other plating options



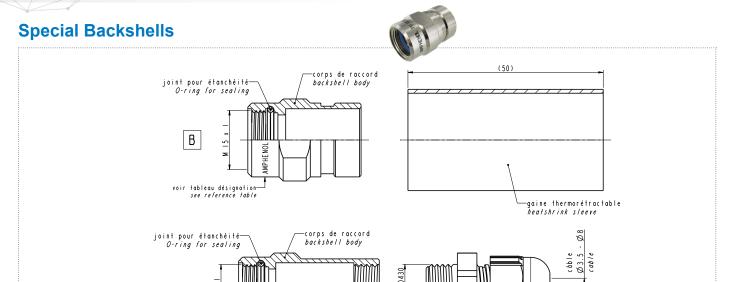
How to order plugs

Series	TV	06	UCOM	С	W	-11	Р
Shell type 06: Plug							
UCOM							
Contacts termination C: Crimp S: Solder							
Shell material and finish* W: Aluminium shell - Olive drab cadmium plating F: Aluminium shell - Nickel plating TN: Aluminium shell - Black zinc nickel plating B: Marine bronze shell							
Shell size 11							
Type of contact P: Male μCom module S: Female μCom module							

Examples: TV 06 UCOM C F -11 P; TV 06 UCOM S ZN -11 P

* Please contact us for other plating options

✓: RoHS compliant



TV UCOM X X

-voir tableau désignation see reference table

How to order - Special Backshells

G

Series	TV UCOM	W	В
Shell material and finish* W: Aluminium shell - Olive drab cadmium plating F: Aluminium shell - Nickel plating Th: Aluminium shell - Black zinc nickel plating B: Marine bronze shell			
Backshell type B: Backshell for heatshrink sleeve G: Backshell for PG gland			

✓: RoHS compliant

-presse étoupe PG9 plastique-Inclus plastic PG9 gland backshell-Included

^{*} Please contact us for other plating options

Accessories



Spares









Tools



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

Watch our videos

Assembly Solder Version



Assembly Crimp Version



TV µCom-10Gb+ - STANDARD METALLIC CAPS

Description

The largest range of protective caps with IP68 protection level.

Main features

- Compatible with Plugs, Jam nut (Standard and Reduced Flange) and Square Flange receptacles
 IP 68 (permanent sealing)
 Protection again dust, water and moisture
 EMI function
 Nylon cord, stainless steel rope or metallic chain



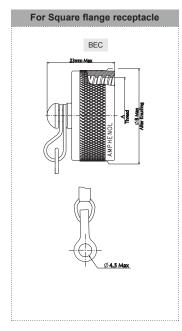


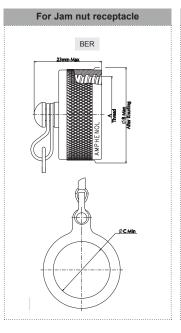


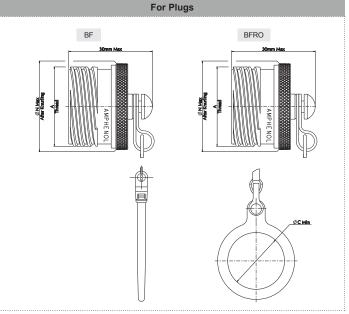




Overall dimensions



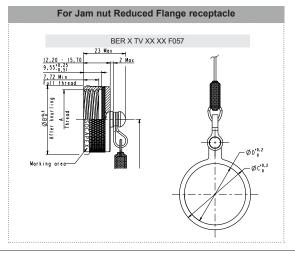




Lanyard (Attachment) Length

_ , , ,						
Cap type	Metallic chain length	Nylon cord length	Stainless steel rope length			
BEC/BER for receptacle	127 (+13,-7)					
BF for plug		160±5				

Size	A thread 0.1P-0.3L-TS Class 2A (External) Class 2B (Internal) (inch)	ØB Max (After Knurling)	ØC Min	ØN Max
11	.7500	22,60	21,97	20,50



Size	A Thread	ØB +0,5 0	Ø C +0,2 0	Ø D +0,2 0
11	0.750-2B-0.1P-0.3L-TS	22,60	25,5	20,5

TV µCom-10Gb+ - METALLIC SELF-CLOSING CAPS

Description

High end protection with metallic self-closing function.

Main features

- Compatible with Square flange receptacles
- Material: Aluminum
- Platings: Olive drab cadmium, Black zinc nickel, Electroless nickel and Black electrophoresis
- IP67 (1m, 1 hour sealing)
- Protection against dust, water and moistureEMI function
- Fast self-closing function
- Space and weight saving: no need for Dummy receptacle
- No noise from pending cap





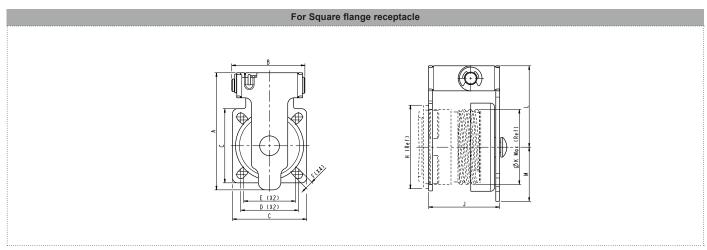








Overall dimensions



Size	Α	В	С	D	E	F	Н	J	ØK Max	L	M		N		ØP Min	ç	ØQ ± 0,13	
11	43,0	27,2	27,2	20,62	18,26	 3,25	 26,19	31,2	19,05	27,0	16,0	Ī	20,62	Ī	15,88		3,25	

TV µCom-10Gb+ - SILICONE CAPS

Description

Silicone protective caps against dust and water.

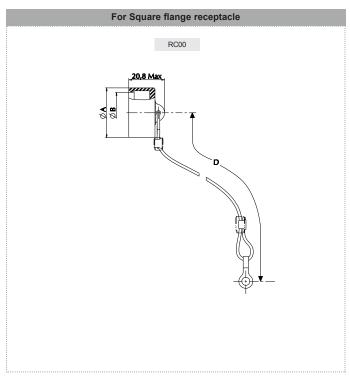
Main features

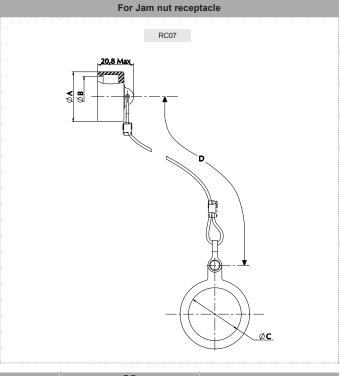
- Compatible with Jam nut and Square flange receptacles
 IP67 (1m, 1 hour sealing)
 Protection against dust and water
 Silicone 200°C
 Nylon cord
 No noise (rubber material)





Overall dimensions





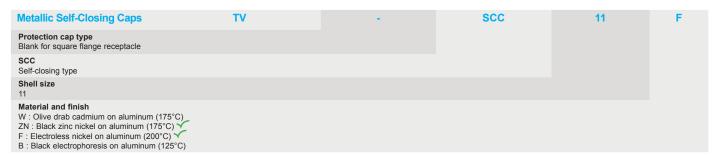
Sizo	Ø C +0,25	ØA	ØВ	D May		
Size	0	Max	Max	DIVIGA		
11	22,63	22,55	17,2	140		

HOW TO ORDER - CAPS

Protective Caps - Standard Metallic Caps

Standard Metallic Caps	В	EC	N	TV	W	11	
Protection cap type EC: For square flange receptacle ER: For jam nut receptacle F: For plug							
Wire type Blank for metallic chain N: Nylon cord R: Jacketed stainless steel rope RO: Jacketed stainless steel rope with w	asher end (on	ly for plug)					
Connector type							
Material and finish W: Olive drab cadmium plated on alumin ZN: Black zinc nickel plated on aluminum F: Electroless nickel plated on aluminum B: Marine bronze (200°C) Z: Green zinc cobalt plated on aluminum	(200°C)						
Corresponding connector shell size							
Deviation F057 for jam nut Reduced Flange recept Blank for others	acle only						

Protective Caps - Metallic Self-Closing Caps/Square Flange Receptacles only



Protective Caps - Silicone Caps/Receptacles only

Rubber Caps	RC	00	N	TV	11
Protection cap type 00: For square flange receptacle 07: For jam nut receptacle					
Wire type N: Nylon cord					
Connector type					
Shell size 11					

✓: RoHS compliant

Amphenol Military Interconnections

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