MPO Field
Fiber Optic Solution

Transform your MPO patchcord into an environmental connector

MPO Field offers an easy system to upgrade from a standard to an environmental MPO with no cabling operation for installation in field.

Main Features

- Uses standard MPO Patchcord
- MPO inside a MIL-DTL 38999 Series III size 13 shell
- Sealed against fluids and dust (IP68)
- Shock, vibration proof
- No cabling operation in field

Characteristics

- Number of channels : 12 or 24 depends on MPO
- Typical insertion loss : 0,5dB Multimode or Singlemode
- Durability : 500 mating/unmating cycles

Markets & Applications

C6ISR
Threat detection system
Soldier wearable equipement
Rugged computer & digital radio
Satellite reception unit
Radars

Navy
Navigation
Embedded Network
Data Centers

Military Aerospace & Airframe
Radars
Display unit
Flight control system

Military vehicles
Vetronics
Optronics
Communication Systems
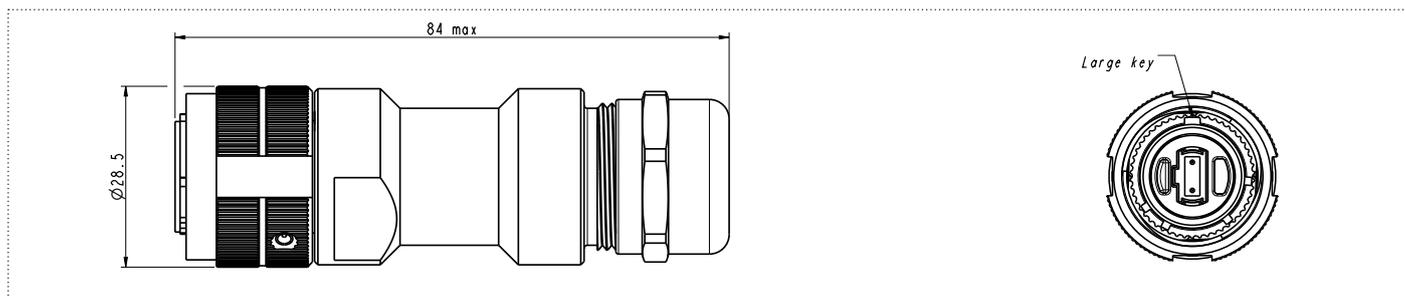
MPO Field Assembly

Assembling your MPO FIELD

MPO Field Straight Plug

Plug with metallic backshell and metallic gland
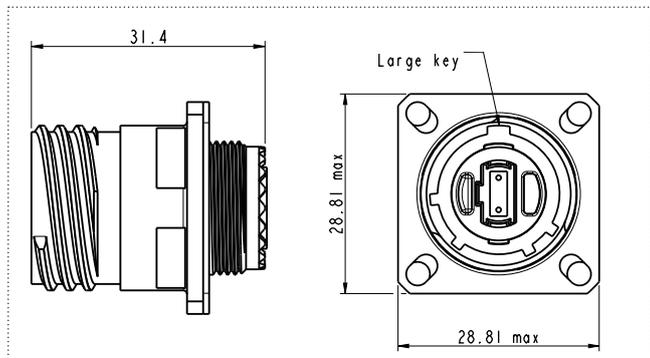MIL-DTL 38999 Series III Size 13

3D files available on request

MPO Field Receptacles

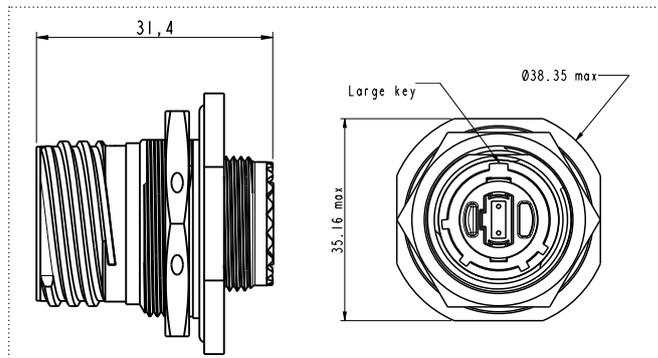### Square flange receptacle
MIL-DTL 38999 Series III Size 13

3D files available on request

Jam nut receptacle
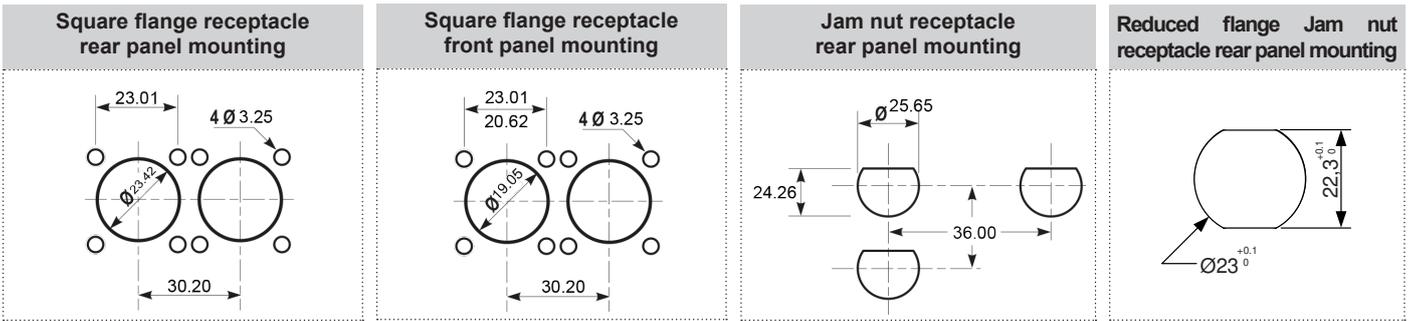MIL-DTL 38999 Series III Size 13

3D files available on request

Reduced flange Jam nut receptacle
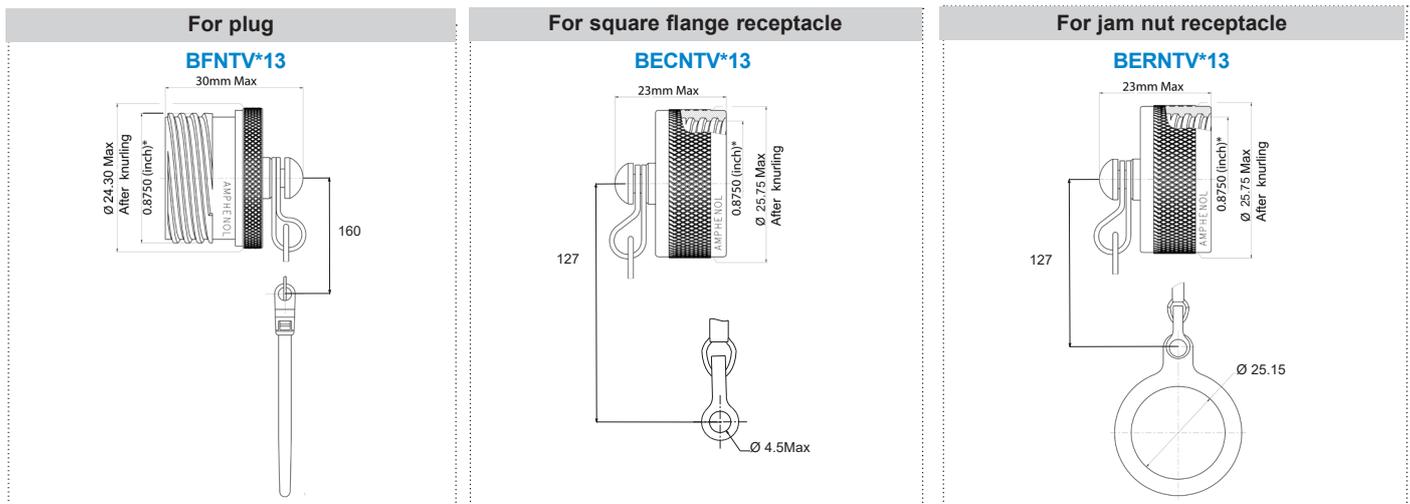MIL-DTL 38999 Series III Size 13
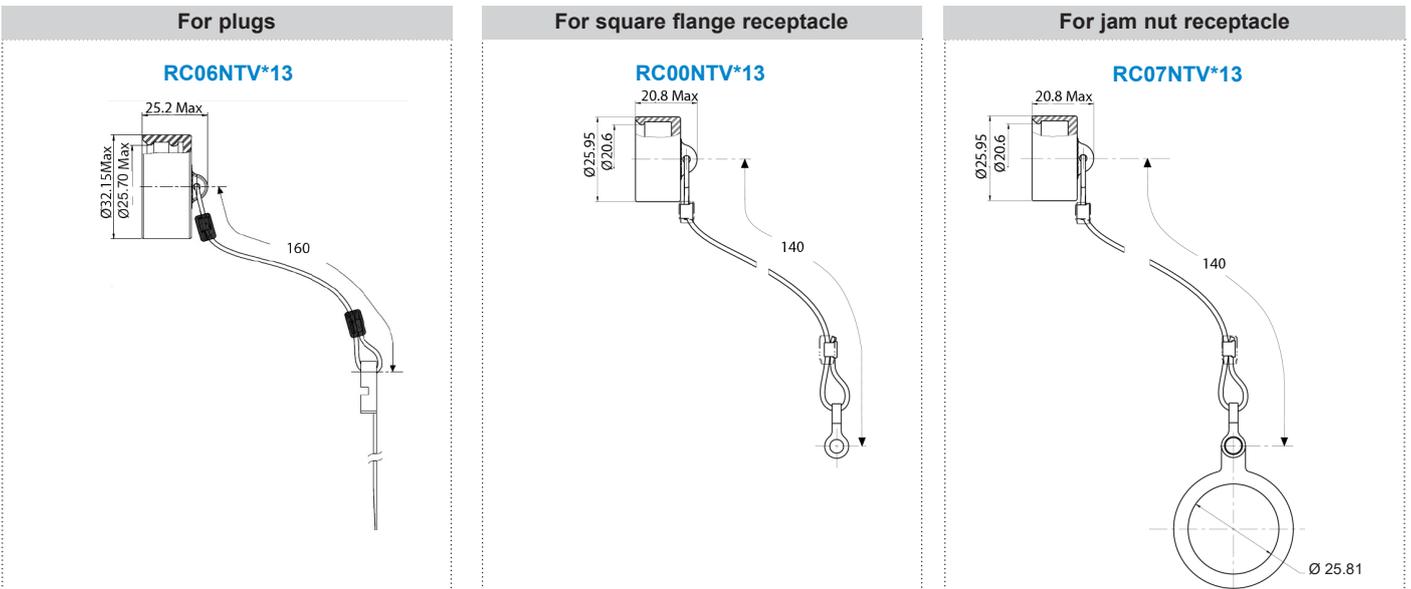

3D files available on request

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MPO Field Panel drilling

Square flange receptacle rear panel mounting	Square flange receptacle front panel mounting	Jam nut receptacle rear panel mounting	Reduced flange Jam nut receptacle rear panel mounting
23.01 4 Ø 3.25 Ø 23.42 30.20	23.01 20.62 4 Ø 3.25 Ø 19.05 30.20	Ø 25.65 24.26 36.00	22.3 $^{+0.1}_{0}$ Ø 23 $^{+0.1}_{0}$

MPO Field Protective Caps

Standard Metal Protective Caps

For plug	For square flange receptacle	For jam nut receptacle
BFNTV*13	**BECNTV*13**	**BERNTV*13**
30mm Max Ø 24.30 Max After knurling 0.8750 (inch)* AMPHENOL 160	23mm Max 0.8750 (inch)* Ø 25.75 Max After knurling AMPHENOL 127 Ø 4.5Max	23mm Max 0.8750 (inch)* Ø 25.75 Max After knurling AMPHENOL 127 Ø 25.15

* A thread 0.1P-0.3L-TS, Class 2A (External), Class 2B (Internal)

Protective Rubber Caps

For plugs	For square flange receptacle	For jam nut receptacle
RC06NTV*13	**RC00NTV*13**	**RC07NTV*13**
25.2 Max Ø32.15Max Ø25.70 Max 160	20.8 Max Ø25.95 Ø20.6 140	20.8 Max Ø25.95 Ø20.6 140 Ø 25.81

Accessories

MPO Field Dismounting Tool

MPOFTV DM TOOL : MPO FIELD Dismounting tools

www.amphenol-socapex.com

Due to technical modifications, all information provided is subject to change without prior notice
Designed by Amphenol Socapex

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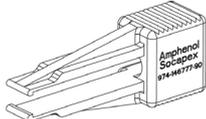
MPO Field - How to order

MPO Field Connectors

1.	2.	3.	4.	5.	6.
Series	Shell type	Cable type	Shell protection	Shell coding	Deviation
MPOFTV	6M	A	N	N	

1. Series

MPOFTV	MPO Field TV Series

2. Shell type

With metallic backshell

6M	Plug with metallic backshell and metallic gland
2PEM	Square flange receptacle with metallic backshell
7PEM	Jam Nut receptacle with metallic backshell

Without backshell

2	Square flange receptacle
7	Jam Nut receptacle

3. Cable type

Only with backshell

A	Round cable from Ø 2 to 2,99mm
B	Round cable from Ø 3 to 3,99mm
C	Round cable from Ø 4 to 5,99mm
D	Round cable from Ø 6 to 7,99mm

Only without backshell

0	Receptacle without backshell

4. Shell protection

N	Electroless Nickel ✓
G	Olive drab cadmium
B	Marine Bronze ✓
ZN	Black zinc nickel ✓

5. Shell coding

N	Standard coding N
A	Coding A
B	Coding B
C	Coding C
D	Coding D
E	Coding E

6. Deviation (metal shells and jam nut receptacle only - TV Series)

Deviation	Description
F312	Reduced flange jam nut receptacle with a standard castle nut

Standard Metal Protective Caps

1.	2.	3.	4.	5.	6.
Cap type	Cap style	Wire type	Series	Material and platings	Cap size	Deviation
B	EC	N	TV	W	13	

1. Cap style

EC	For square flange receptacle
ER	For jam nut receptacle
F	For plugs

2. Wire type

N	Nylon cord

3. Series

TV	For MIL-DTL-38999 Serie III (TV-CTV), RNJLP, SC39, Powersafe

4. Materials and platings

	Shell material	Shell finish
W		Olive drab cadmium
F	Aluminum	Nickel ✓
ZN		Black zinc nickel ✓
B	Marine Bronze ✓	-

5. Cap size

13

6. Deviation (TV Series only)

F057	For Reduced flange jam nut receptacle (TV Series, RJFTV, USBFTV)

Protective Rubber Caps

1.	2.	3.	4.
Cap type	Cap style	Wire type	Series	Cap size
RC	00	N	TV	13

1. Cap style

00	For square flange receptacle
07	For jam nut receptacle
06	For plugs

2. Wire type

N	Nylon cord

3. Series

TV	For MIL-DTL-38999 Serie III (TV-CTV), RNJLP, SC39

4. Cap size

13

✓ RoHS compliant

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