MPO Field
Fiber Optic Solution

NEW

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

C4ISR
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

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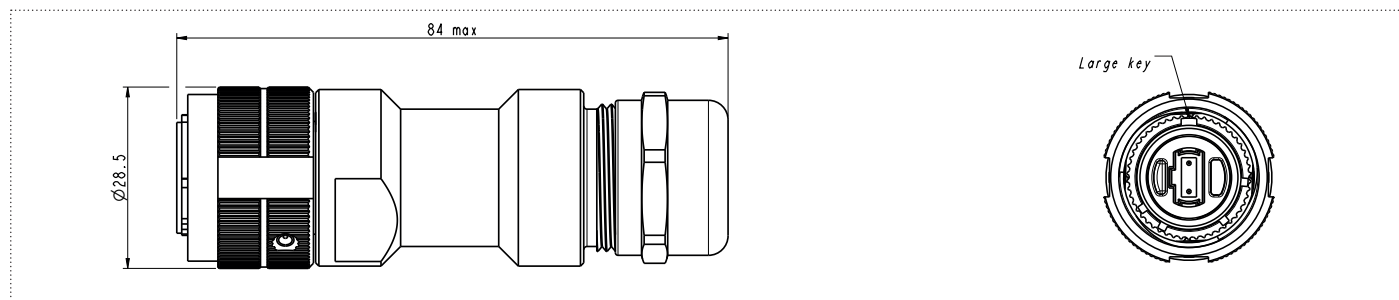
Amphenol **SOCAPEX**

MPO Field Assembly

Assembling your MPO FIELD

MPO Field Straight Plug

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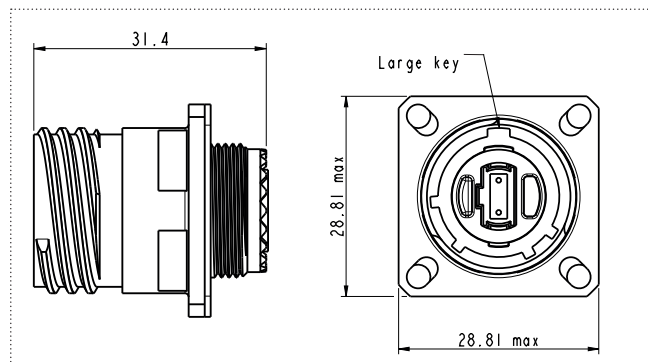MIL-DTL 38999 Series III Size 13

3D files available on request

MPO Field Receptacles

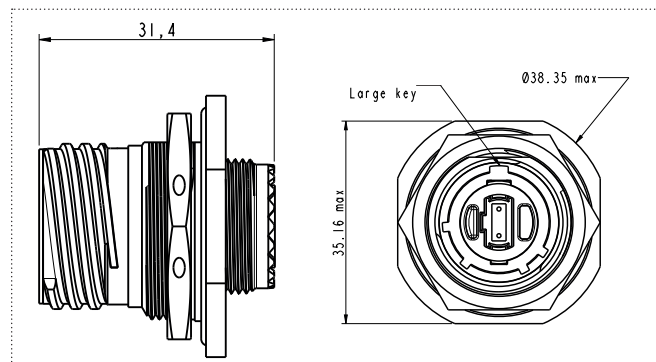### Square flange receptacle
MIL-DTL 38999 Series III Size 13

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

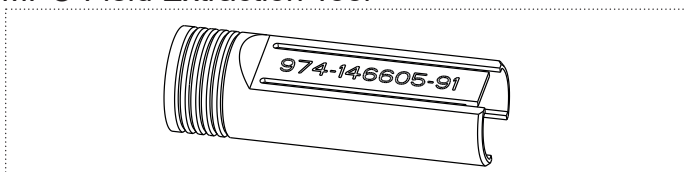| For plug	For square flange receptacle	For jam nut receptacle
BFNTV*13	**BECNTV*13**	**BERNTV*13**
30mm Max · Ø 24.30 Max After knurling · 0.8750 (inch)* · 160	23mm Max · Ø 25.75 Max After knurling · 0.8750 (inch)* · 127 · Ø 4.5Max	23mm Max · Ø 25.75 Max After knurling · 0.8750 (inch)* · 127 · Ø 25.15

* 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 Extraction Tool

974-146605-91

See how to use it in the video :

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

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

3. Cable type

Only for plug

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 for receptacle (no backshell available for MPO FIELD)

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

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

Deviation	Description
F311	Reduced flange jam nut receptacle with a safety castle nut
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

Amphenol SOCAPEX

Mouser Electronics

Authorized Distributor

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