AmphenolFSI Amphenol Socapex

MPO Field

Fiber Optic Solution



The MPO Field upgrades a standard MPO to a ruggedized connection. The system allows for a standard MPO patch cable to be installed in a MIL-DTL-38999 Series III type connector which protects the assembly from shock, vibration, dust, and fluids.

No cabling operation or termination is required for field installation of the MPO patch cord into the MPO Field connector. The MIL-DTL-38999 style MPO Field mates using a Tri Start Thread with an anti-decoupling mechanism for high vibration environments, and provides an environmental seal using a backshell and gland.

MPO Field Product Specifications

Specifications	Measurement Details	
Number of Channels	12, 24 or 48 fiber MT Dependent on MPO cable assembly	
Insertion Loss	0.5dB Typical Mulitmode or Singlemode Dependent on MPO cable assembly	
Durability	500 mating/unmating cycles	

Features:

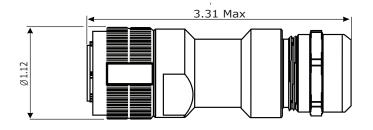
- Uses standard MPO Patchcord allowing for a high density of fiber per connection
- MIL-DTL 38999 Series III size 13 shell provides resistance against shock and vibration
- Backshell and gland provide sealing against dust and fluid (IP68).
- No cabling operation in field

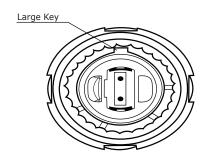
Applications:

- C4ISR
- Navy
- Military Aerospace & Airframe
- Ground Vehicles

MPO Field Straight Plug

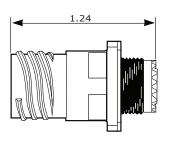
Plug with Metallic backshell and metallic gland

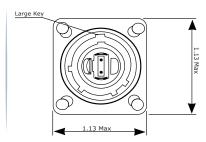




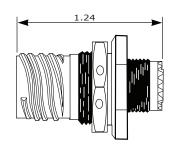
MPO Field Straight Receptacles

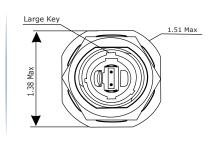
Square Flange Receptacle



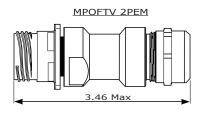


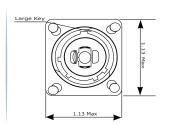
Jam Nut Receptacle



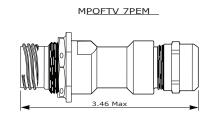


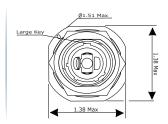
Square Flange Receptacle with Metallic Backshell and Metallic Gland



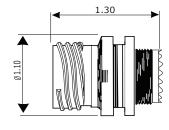


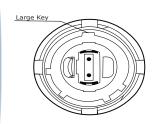
Jam Nut Receptacle with Metallic Backshell and Metallic Gland





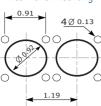
Reduced Flange Jam Nut Receptacle



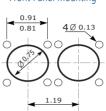


MPO Field Panel Drilling

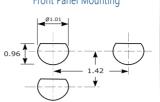
Square Flange Receptacle Rear Panel Mounting



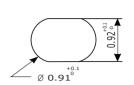
Square Flange Receptacle Front Panel Mounting



Jam Nut Receptacle Front Panel Mounting



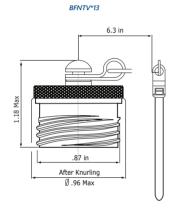
Reduced flange Jam Nut Receptacle Rear Panel Mounting



MPO Field Dust Caps

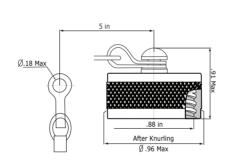
Standard Metal Protective Caps

For plug



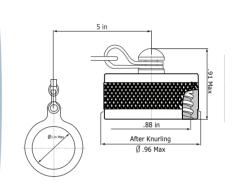
For Square Flange Receptacle

BECNTV*13



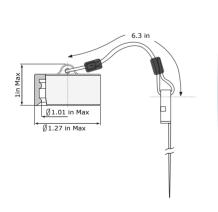
For Jam Nut Receptacle

BERNTV*13



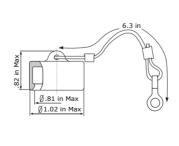
For plug

RC06NTV*13



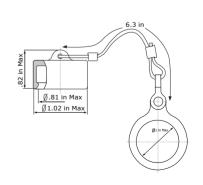
For Square Flange Receptacle

RC00NTV*13



For Jam Nut Receptacle

RC07NTV*13



Ordering Information Part Number Configuration

1.	2.	3.	4.	5.	6.
Series	Shell Type	Cable Type	Shell Protection	Shell Coding	Deviation
MPOFTV	6M	А	N	N	-

1.Series	1.Series				
MPOFT	MPO Field TV Series				
2.Shell 1	уре				
6M	Plug with metallic backshell and metallic gland				
2	Square Flange Receptacle				
2PEM	Square flange receptacle with metallic backshell and metallic gland				
7	Jam Nut Receptacle				
7PEM	Jam Nut Receptacle with metallic backshell and metallic gland				
3.Cable	3.Cable Type				
Only for pl	ug (rec with backshell)				
Α	Round cable from Ø.08 to 0.12in				
В	B Round cable from Ø.12 to 0.15in				
С	C Round cable from Ø.16 to 0.24in				
D	D Round cable from Ø.24 to 0.31in				
Only for Re	eceptacle (no backshell available for MPO Fieltd)				
0	O Receptacle without backshell				

4. Shell Pr	rotection	
N	Electroless Nickel 🗸	
G	Olive Drab Cadmium	
В	Marine Bronze 🗸	
ZN	Black Zinc Nickel ✓	
5. Shell Co	oding	
N	Standard Coding N	
А	Coding A	
В	Coding B	
С	Coding C	
D	D Coding D	
Ε	Coding E	
6. Deviation	On (metal shells and jam nut receptacle only - TV Series)	
-	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 Dust Caps

	1.	2.	3.	4.	5.	6.
Сар Туре	Cap Style	Wirev Type	Series	Material and Platings	Cap Size	Deviation
В	EC	N	TV	W	13	F057

1. Cap Style			
EN	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 Plating				
	Shell Material	Shell Finish		
W		Olive Drab Cadmium		
F	Aluminum	Nickel 🗸		
ZN		Black Zinc Nickel 🗸		
В	Marine Bronze 🗸	-		
5. Cap Siz	5. Cap Size			
	13			
6. Deviation (TV Series only)				
F0V57	For Reduced flange jam nut receptacle (TV Series, RJFTV, USBFTV)			

Rubber Dust Caps

	1.	2.	3.	4.
Сар Туре	Cap Style	Wire Type	Series	Cap Size
RC	00	N	TV	13

For Square Flange Receptacle		
07 For Jam Nut Receptacle		
08 For plugs		
2. Wire Type		
d		

3. Series			
TV	TV For MIL-DTL-38999 Series III (TV-CTV), RNJLP, SC39		
5. Cap Size			
13	13		

✓ RoHS compliant

Amphenol Fiber Systems International, Inc.

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