

## technical information

PanMPO™ Reference Cable Assemblies are pre-terminated 12-fiber reference grade MPO-compatible assemblies that are used to perform permanent link testing to commission and certify MPO-based structured cabling to international and domestic cabling standards. These reference cable assemblies are terminated with reference grade PanMPO™ Connectors on both ends that allow for any combination of gender and polarity cable plant to be tested using single jumper referencing methods. PanMPO™ Reference Cords contain connectors that display nominal optical and geometrical characteristics.



## application

For testing MPO-based cable plant in support of 40GBASE-SR, 100GBASE-SR10, and 40GBASE-SR4 applications. Reference quality MPO cords must be used to ensure accurate, repeatable and reproducible measurements for permanent link certification. Reference Cable Assemblies with PanMPO™ Connectors provide contractors the capability to maintain high measurement integrity over time through the ability to retract the alignment pins in the connector for effective cleaning of the complete MPO connector surface.

## construction

<b>Cable type:</b>	Round jacketed 3.0mm
<b>Cable jacket ratings:</b>	Plenum (OFNP)
<b>Fiber types:</b>	OM3 - 50/125µm* OS2 - 9/125µm
<b>Connector types end 'A':</b>	PanMPO™ Female
<b>Connector color, end 'A':</b>	Yellow
<b>Fiber count:</b>	12
<b>Jacket color:</b>	Aqua - OM3 Yellow - OS2
<b>Connector types, end 'B':</b>	PanMPO™ Female
<b>Connector color, end 'B':</b>	Yellow

## optical properties

<b>Maximum connector insertion loss:</b>	0.25dB
<b>Minimum connector return loss:</b>	30dB - OM3 65dB - OS2

## physical properties

<b>Cable outside diameter (OD):</b>	3.0mm
<b>Minimum bend radius:</b>	30mm
<b>Cable retention strength:</b>	50N
<b>Cable flex:</b>	100 cycles @4.9N
<b>Cable twist:</b>	10 cycles @15N
<b>Connector durability:</b>	500 mating cycles

## environmental properties

<b>Storage and shipping temperature:</b>	-40°C to +70°C
<b>Operating and installation temperature:</b>	0°C to +70°C

## standards

Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIA/EIA-568-C.1, RoHS compliant.

\*Compatible for testing OM3/OM4 cable plant

# PanMPO™ Reference Cable Assemblies

## part number

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12
EXAMPLE	F	R	B	X	R	7	-	R	7	M	0	2

### 1 – Fiber Product

F = Fiber

### 2 – Cable Type

R = Reference

### 3 – Fiber Count

B = 12 fiber round jacketed

### 4 – Fiber Type

X = OM3, 50/125µm\*

9 = OS2, 9/125µm

### 5 – Connector A Quality

R = Precision Reference

### 6 – Connector A

7 = PanMPO™ Female

### 7 – DASH

### 8 – Connector B Quality

R = Precision Reference

### 9 – Connector B

7 = PanMPO™ Female

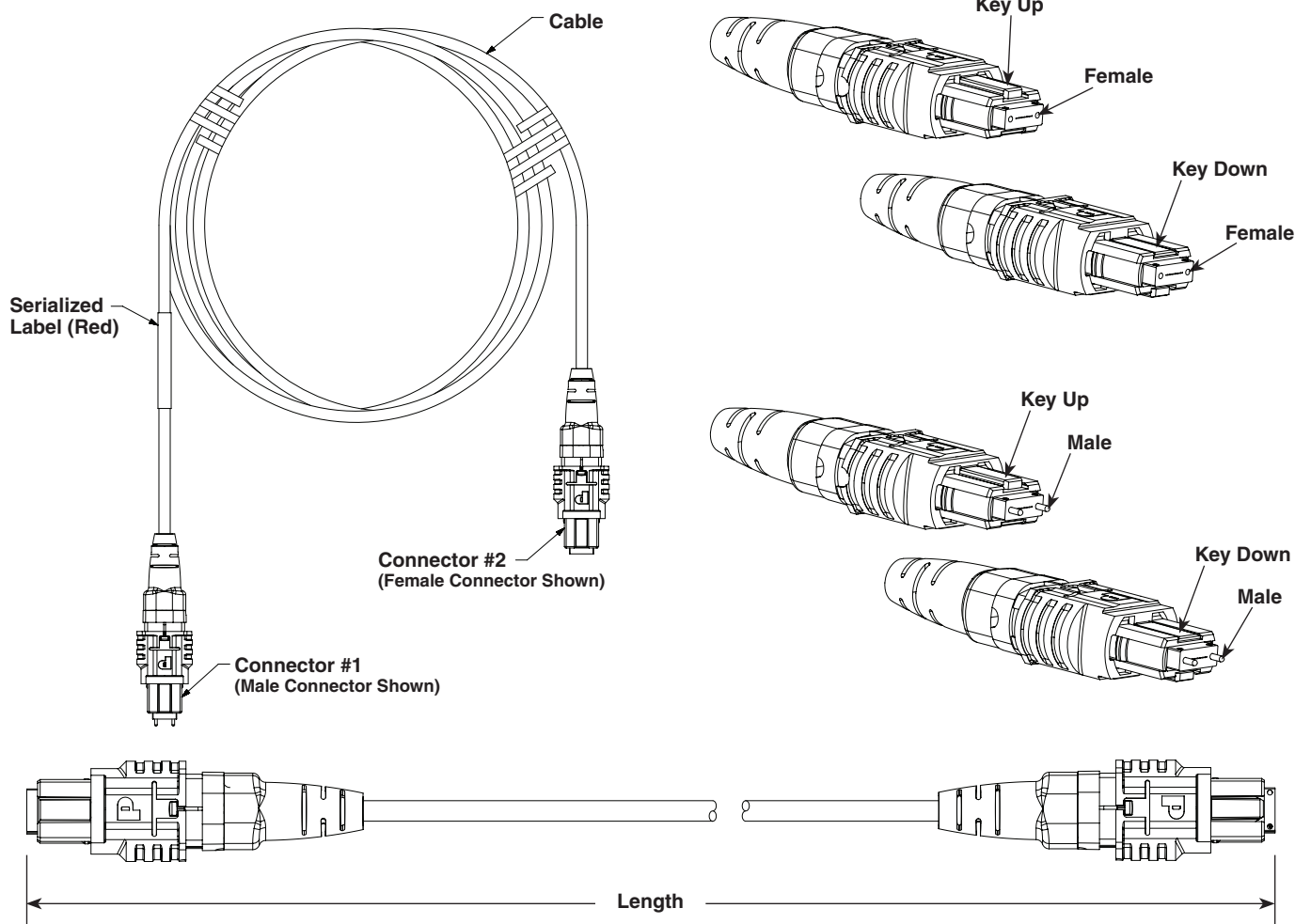
### 10 – Unit of Length

M = Meters

### 11,12 – Length

(standard length is 2m)

## cable assembly detail



\*Compatible for testing OM3/OM4 cable plant

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