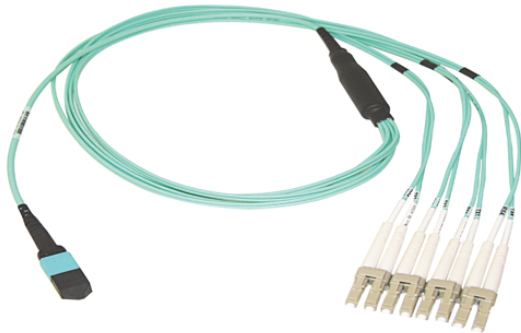


# MTP/MPO Harness Micro Cable Assemblies

## Features



- Bend-insensitive/bend optimized fibers
- SM and MM performance types
- MTP/ MPO on one end, with standard connectors on another end
- MTP/ MPO in 8/12/24 fiber optional
- Connector interface available in LC, SC, ST, FC, uniboot LC
- Customized furcation length to cater for different installation situations
- Round or square sub-branch 0.9/2.0/3.0mm

MTP/MPO Harness Micro Cable Assemblies meet the demands of 10G/25G Ethernet, higher speed 40G/100G ethernet, and can be used for standards-compliant cable plant migration from 10G/25G to 40G/100G. The MTP/ MPO Harness Micro Cable Assemblies are fully configurable, available with a variety of cable and connector combinations, including connector type, breakout configurations and jacket material.

## Technical Data

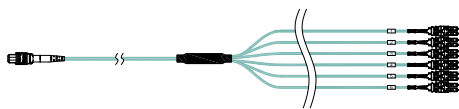
Mechanical Data	Value	8F	12F	24F
MTP/MPO Connector	-	12	12	24
Outer Sheath Thickness	mm	0.8	0.8	0.8
Cable Outer Diameter	mm	3.0mm $\pm$ 0.2	3.0mm $\pm$ 0.2	4.6mm $\pm$ 0.2
Min Bending Radius Dynamic	mm	15D		
Min Bending Radius Static	mm	30D		
Cable Jacket Color	-	Yellow, Orange, Aqua, Violet and OEM colors		
Branch Of Connector	-	LC, SC, ST, FC, Uniboot LC		

Optical Data	Value
Fiber Mode	OS1/OS2/G657-9/125 bend insensitive (A.1 or A.2) or OM1/2/3/4/5
Test Wavelength	1310nm/1550nm (Singlemode), 850nm/1300nm (Multimode)
MPO/MTP Insertion Loss (Low)	Singlemode $\leq$ 0.35dB, Multimode $\leq$ 0.35dB
MPO/MTP Insertion Loss (Standard)	Singlemode $\leq$ 0.50dB, Multimode $\leq$ 0.50dB
MPO/MTP Return Loss	Singlemode UPC $\geq$ 50dB APC $\geq$ 60dB Multimode UPC $\geq$ 25dB
Branch Insertion Loss (Low)	Singlemode $\leq$ 0.15dB, Multimode $\leq$ 0.15dB
Branch Insertion Loss (Standard)	Singlemode $\leq$ 0.30dB, Multimode $\leq$ 0.30dB
Branch Return Loss	Singlemode UPC $\geq$ 55dB APC $\geq$ 65dB Multimode UPC $\geq$ 25dB

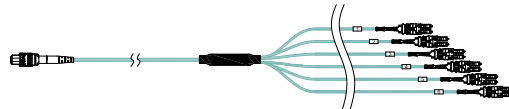
## Environmental Data

Description	Value
Operating Temperature	-20°C to +60°C
Store Temperature	-20°C to +60°C
Fully Compliant	IEC-61754, TIA/EIA-604, GR326, RoHS

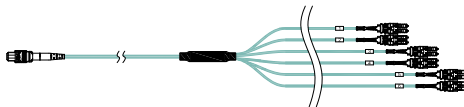
## Branch Drawing



Type 1 Straight tails



Type 2 Staggered tails



Type 3 Staggered tails of 2 Equal Length

NOTE: The different fan-out tail lengths are made to suit different types of switches and servers.

## Ordering Information

-	X	XX	X	X	X	X	X	X	XXX
Type	A Side	B Side	Fiber Mode	IL Type	Count	Polarity	Jacket	Fon-out	Length
HMCA	1=MPO/UPC/Male	01=LC/UPC/Simplex	1=OS1	1=Low	1=08	1=A	1=LSZH	1=Type 1	001=001m
	2=MPO/UPC/Female	02=LC/APC/Simplex	2=OS2	2=Standard	2=12	2=B	2=PVC	2=Type 2	...
	3=MTP/UPC/Male	03=LC/UPC/Duplex	3=OM1		3=16	3=C	3=OFNR	3=Type 3	999=999m
	4=MTP/UPC/Female	04=LC/APC/Duplex	4=OM2		4=24	4=other	4=OFNP		
	5=MPO/APC/Male	05=SC/UPC/Simplex	5=OM3						
	6=MPO/APC/Female	06=SC/APC/Simplex	6=OM4						
	7=MTP/APC/Male	07=SC/UPC/Duplex	7=OM5						
	8=MTP/APC/Female	08=SC/APC/Duplex							
		09=FC/UPC							
		10=FC/APC							
		11=ST/UPC							
		12=ST/APC							
		13=Uniboot LC/UPC/ Push-Pull							
		14=Uniboot LC/APC/ Push-Pull							
		15=Uniboot LC/UPC/no Push-Pull							
		16=Uniboot LC/APC/no Push-Pull							
		17=Uniboot LC/UPC/ Reversible							
		18=Uniboot LC/APC/ Reversible							

Note: APC only single mode.

Example:

HMCA 101214122025 Means : Harness Micro Cable Assemblies, MPO/UPC/Male-LC/UPC/ Simplex, OS2, Low Loss, 24F, Polarity A, PVC, Staggered tails, 25M Length.