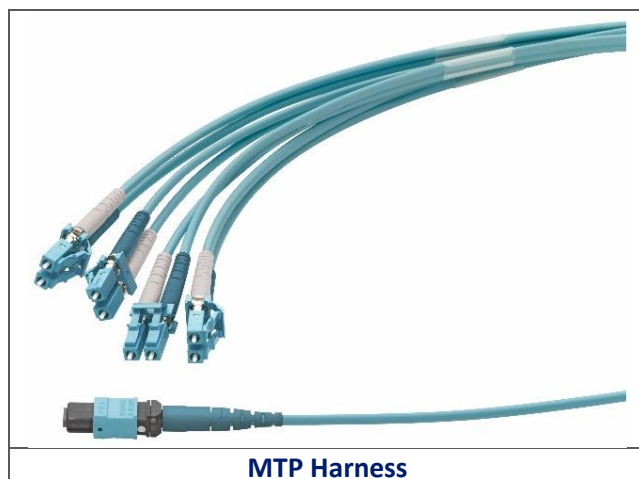


APPLICATION

Breakout assemblies are used in duplex transmission cross connect systems to increase cable density between switch and server cabinets. These hybrid assemblies are available in 8, 12 or 24 fibre, OM3, OM4 or single-mode performance grades and a Halogen Free Flame Retardant – Low Smoke jacket. The cables are terminated at one end with a low loss MTP connector and, converting through a bifurcation unit, to LC duplex, LC uni-boot, or SC simplex low loss connectors.

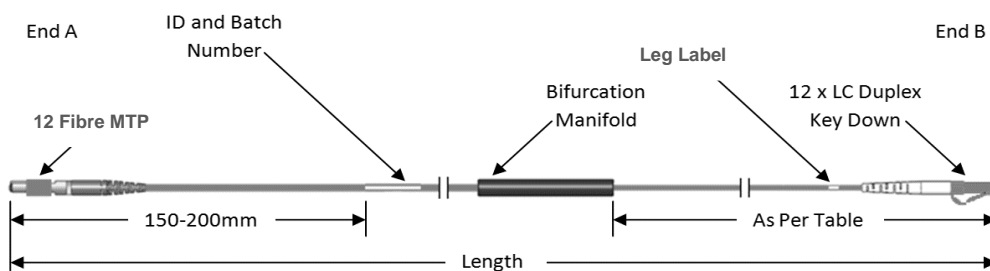
FEATURES

- Plug and play technology eliminates the need for complicated and craft sensitive field terminations and splices
- Factory terminated and pre-tested using automated procedures to ensure product quality
- Available in 8, 12 and 24 fibre counts
- Factory terminated MTP to discrete connectors (LC and SC) in OM3, OM4 and OS2
- Custom staggering options available on tails
- Halogen Free Flame Retardant – Low Smoke cable jacket with EuroClass Cca and Eca options to meet the requirements of the Construction Product Regulation (CPR)



MTP Harness

PHYSICAL CHARACTERISTICS



MTP Harness Physical Specifications								
Fibre Count	CPR Rating	Nominal Outside Diameter (mm)	Weight (kg/km)	Max Installation Tension (N)	Minimum Bend Radius (mm)		Temperature Range (°C)	
					Installation	Long Term	Operating	Storage
8	Cca	3.0	8	300	60	45	-5°C to 70°C	-25°C to 70°C
8	Eca	3.0	9	150	60	30	-20°C to 60°C	-20°C to 60°C
12	Cca	3.0	8	300	60	45	-5°C to 70°C	-25°C to 70°C
12	Eca	3.0	9	150	60	30	-20°C to 60°C	-20°C to 60°C
24	Cca	3.8	12	300	76	57	-5°C to 70°C	-25°C to 70°C

MTP Harness Length Tolerance	
Length	Tolerance
L <= 1m	+76mm/-0mm
1m < L <= 8m	+152mm/-0mm
8m < L <= 15m	+229mm/-0mm
15m < L	+305mm/-0mm

- Tails 2.0mm OD LSOH Simplex Cable

MTP® is a registered trademark of US Conec, Ltd.

LABELLING

- Standard labelling:
 - Trunk label on each end detailing the part number, end, length, polarity and serial number
 - Leg label on each leg detailing the serial number, the leg number and the end designation
- Custom labelling also available on request

PACKAGING DETAILS

- Supplied in a coil packed in an individual bag

PERFORMANCE

MTP Harnesses are designed and manufactured to conform to the requirements of the structured wiring cabling standards ISO/IEC 11801 latest amendments, EN 50173-1, TIA 568 series and the data centre cabling standards IEC 24764, EN 50173-5 and TIA 942. The ultra-high quality of the connector system allows multi-connector links to be configured within whilst still meeting the optical budgets of high speed applications.

Connector Performance			
Connector Type	Insertion Loss (dB)		Return Loss Minimum (dB)
	Typical	Maximum	
LC Multimode	0.10	0.20	20
SC Multimode	0.15	0.30	20
MTP Multimode	0.10	0.35	20
LC Singlemode	0.10	0.20	65
SC Singlemode	0.15	0.30	55
MTP Singlemode (APC)	0.10	0.35	60

Cable Performance			
Fibre Type	Wavelength (nm)	Typical Attenuation (dB/km)	Maximum Attenuation (dB/km)
OM3	850	2.6	3.5
	1300	0.6	1.5
OM4	850	2.6	3.5
	1300	0.6	1.5
OS2	1310	0.3	0.4
	1550	0.2	0.4

Make to order!		MTP Harness				
FIBRE TYPE	FIBRE COUNT	TERMINATION (FIRST END)	TERMINATION (SECOND END)	CORD LENGTH (m)	BREAKOUT LENGTH (mm)	POLARITY
OS2	8	8-fibre MTP (male)	LC	2-15	900	MTP Method A
OM3	12	8-fibre MTP (female)	SC		900 staggered	MTP Method B, Core
OM4	24	12-fibre MTP (male)	LC (Uniboot)			MTP Method B, Edge
		12-fibre MTP (female)	SC APC			MTP Method C
		24-fibre MTP (male)	LC APC			40G to 10G
		24-fibre MTP (female)	LC APC (Uniboot)			120G to 40G
		8-fibre MTP (male)				
		8-fibre MTP (female)				



*“Brand-Rex is **dedicated to designing, developing and manufacturing sustainable high performance structured cabling and speciality cabling solutions**”*

The information contained in this document is valid and correct at the time of issue. Brand-Rex reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.