

Multifibre FirstLight Classix Cable Assemblies

Description

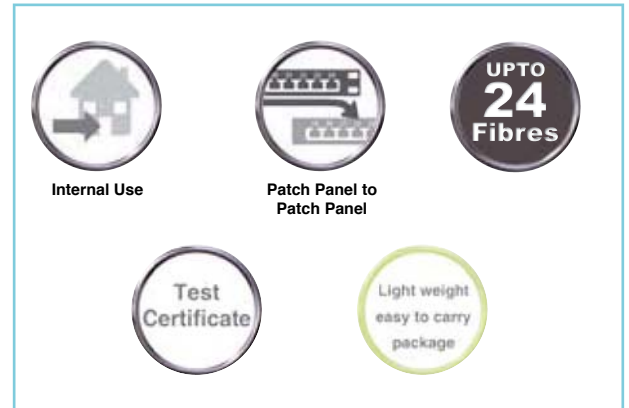
The FirstLight Classix factory made, quality controlled fibre optic assembly is specified for short internal optical links. The 900µm tight buffer presentation lends itself to installation within a patch panel, wall box or Optical Distribution Frame (ODF).

Crush resistant protective tubing assures secure transportation and installation.

The high strength pulling element allows fast, safe and effective pulling.

The overall assembly and packing are light and compact, reducing transport cost and storage space. Installation waste is also reduced.

A unique link loss certificate accompanies all FirstLight Classix Pre-Terms.



Features

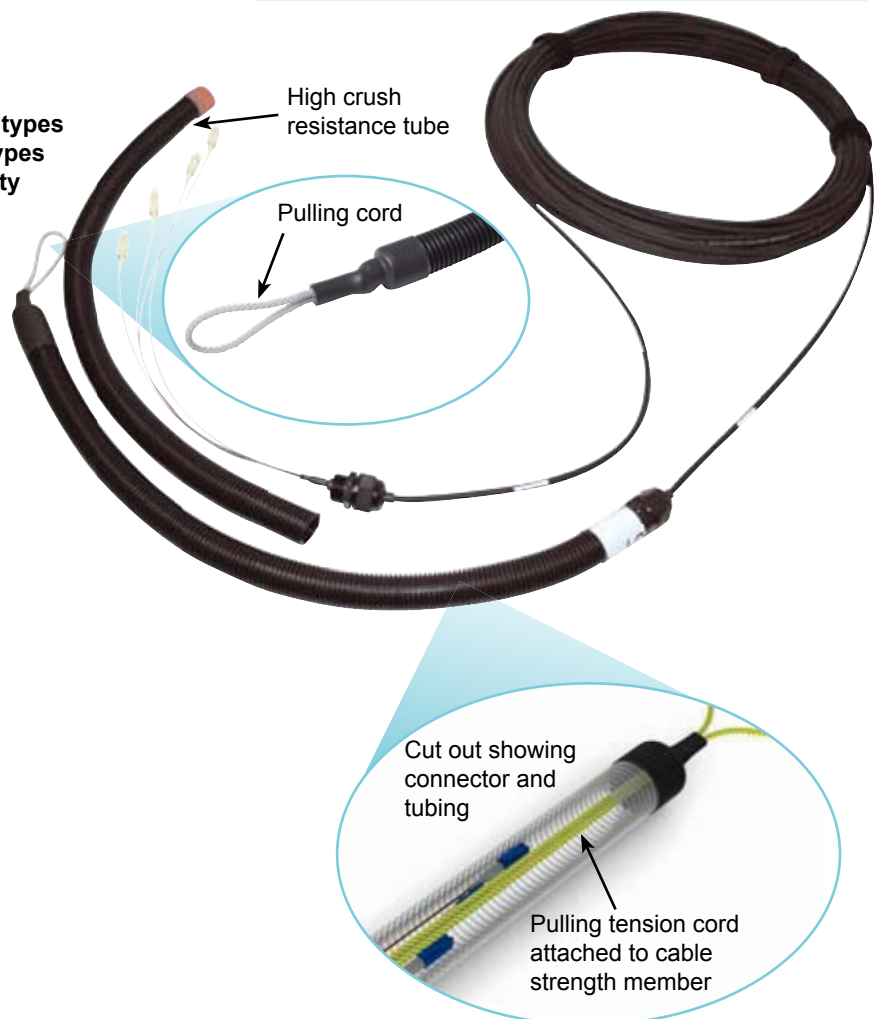
- ❑ Available in OM1, OM2, OM3, OM4 and OS1/OS2 fibre types
- ❑ Available with SC, LC, FC, ST, and E2000 connector types
- ❑ 2 - 24 core tight buffer cable with standard connectivity
- ❑ Fast installation plug and play system
- ❑ No splicing or connector termination required

Benefits

- ❑ High crush resistance robust protection tube
- ❑ High tensile strength pulling element
- ❑ Economical, light and compact assembly
- ❑ Low waste packaging
- ❑ User friendly link loss test certificate
- ❑ Installation guide supplied

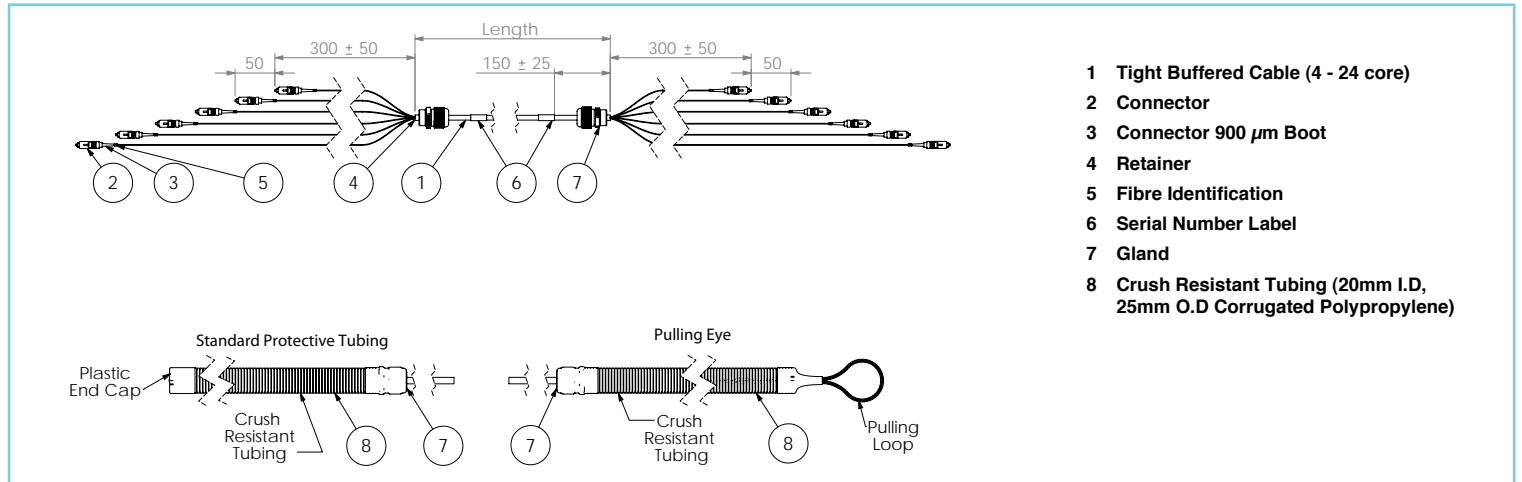
Applications

- ❑ Internal horizontal and backbone cabling
- ❑ Ideal for data centre use



Multifibre First Light Classix Cable Assemblies

Technical Drawing



Technical Specification

Specification	Value
Fibre grade	OS1/OS2, G.657A*, OM1, OM2, OM3, OM4* (ISO/IEC 60793)
Cable specification	Tight bufer 4, 8, 12 and 24 cores* (ISO/IEC 60794) Max OD 24 cores 8.5 ± 0.3 mm
Connectors	IEC 61753, IEC 61754, IEC 61755
Pulling element	a) No pulling element: length < 20mtr b) A side pulling element: 20< length < 100mtr
Packaging	Coil in heavy duty polymer bag EU pallet compatible box
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C



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Multifibre FirstLight Prime Cable Assemblies

Description

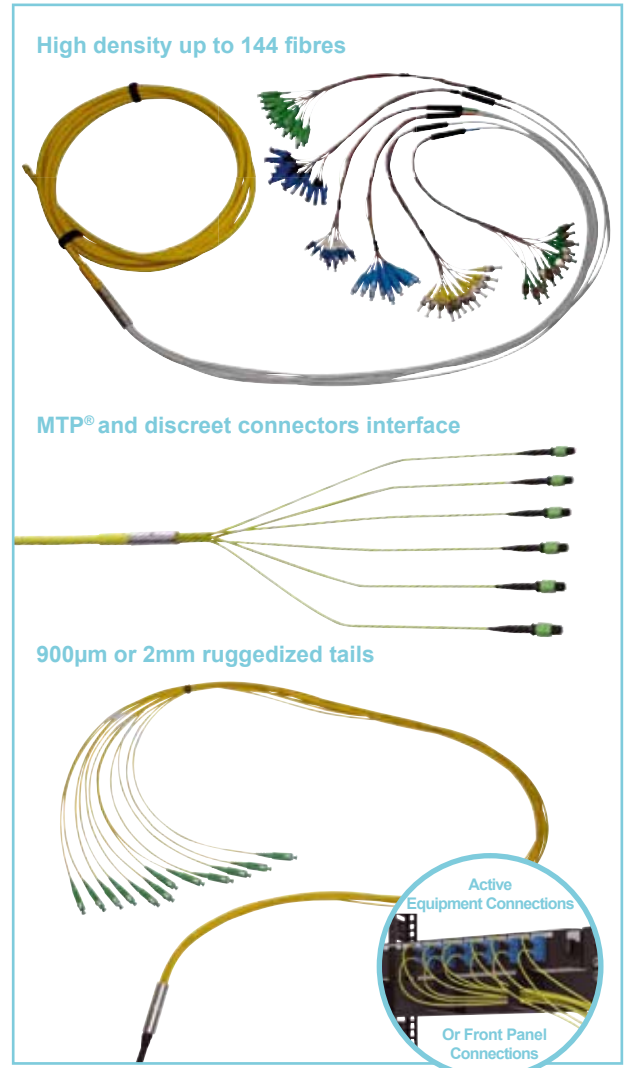
First Light Prime is a special design platform for multifibre optical cable assemblies. It utilizes the patented First Light Prime transition module and guarantees superior tensile strength and crushing resistance. The high density design can scale from 4 up to 144 fibres and can feature both 900µm and ruggedized 2mm tail leads. Assemblies can comprise of both multifibre MTP and discreet connectors, making the FirstLight Prime a flexible hybrid solution for diverse applications.

Features

- OS1/2, OM1, OM2, OM3, OM4 Fibre Grade
- Up to 144 Fibres Core Count
- Available with Multichannel MTP and Discreet Connectors
- Ruggedized 2mm or 900µm Tails
- Internal/External Application
- Factory Terminated and Tested

Benefits

- **Very High Density**- First Light Prime can scale up to 144 fibres for very high density Data Centre or Central Office application.
- **Hybrid MTP and Discreet Connector Interface**- FirstLight Prime can be used as high density multifibre MTP ruggedized trunk or ruggedized MTP to LC or SC fanouts.
- **Tails Selection**- 2mm ruggedized tails can be used for a direct front panel or equipment connections whereas 900µm tails can be used for installation inside fibre management.
- **Rapid Deployment**- factory terminated cabling saves installation and reconfiguration time eliminating field deployment variables.
- **Optimised Performance**- low loss MTP Elite, discreet Premium connectors and OM4 fibre assures low insertion losses and power penalties in tight power budget high speed network environment.
- **Compact Size**- small dimension of breakout module and multifibre assemblies improves space management in high density application.



Applications

- Data Centre Infrastructure
- Central Office, Access Points or CATV hubs
- Internal and Backbone Application

Standards Compliance

- TIA/EIA-568-C.3 and ISO/IEC 11801
- ISO/IEC 60793 & ISO/IEC 60794
- ISO/IEC 61754
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

Connector Performance

CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS	CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS
MTP Elite (MM)	0.20 dB	0.35 dB	NA	MTP Elite (SM)	0.18 dB	0.25 dB	>60dB
MTP (MM)	0.35 dB	0.60 dB	NA	MTP (SM)	0.25 dB	0.75 dB	>60dB
Discreet (MM)	0.15dB	0.30dB	NA	Discreet (SM)	0.18dB	0.25dB	>55/65dB*
Discreet Premium (MM)	0.08dB	0.15dB	NA	Discreet Premium	0.12dB	0.15dB	>55/65dB*

Cable Performance

FibreType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)
	≤ 0.25 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	≤ 0.34 Typ (1550nm)	≤ 2.9 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)
	≤ 0.19 typ (1550nm)	≤ 1.2 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	≥ 200 (850nm)	≥ 500 (850nm)	≥ 1500 (850nm)	≥ 3500 (850nm)
	NA	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)



Multifibre FirstLight Prime Cable Assemblies

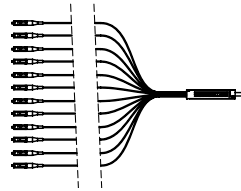
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Technical Specification

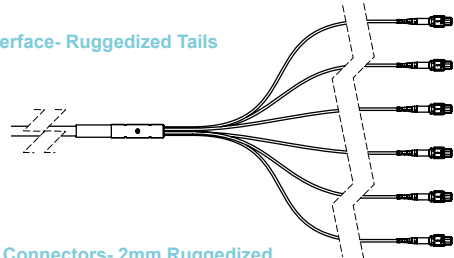
Element	Characteristic
Fibre	OS1/OS2, OM1, OM2, OM3, OM4 (ISO/IEC 60793)
Cable	Loose Tube 2-144 cores (ISO/IEC 60794) OD MAX 24 cores 6.4 ± 0.3mm / OD MAX 144 cores 14.2 ± 0.3mm Jacket material: LSZH, PE, OFNP* Jacket color: Black
Connectors	MTP US Conec (IEC-61754-7 & EIA/TIA-604-5) Boot Colour: Black Body Sleeve Colour: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow) Discreet Connector (IEC 61754-20) Boot Colour: White Housing Color: Beige (MM), Blue (SM), Green (SM/APC)
Packaging	Length < 50m – Heavy Duty PE bag / Length > 50m – Drum
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C

Assembly Configuration Options

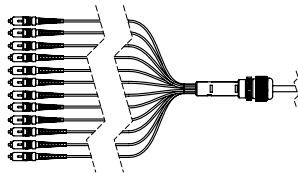
Discreet Connectors- 900µm Tails



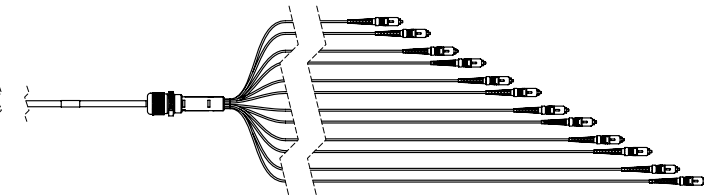
MTP® Interface- Ruggedized Tails



Discreet Connectors- 2mm Ruggedized Fan Out Tails



Discreet Connectors- 2mm Ruggedized Staggered Tails



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Multifibre Full Breakout Cable Assemblies

Description

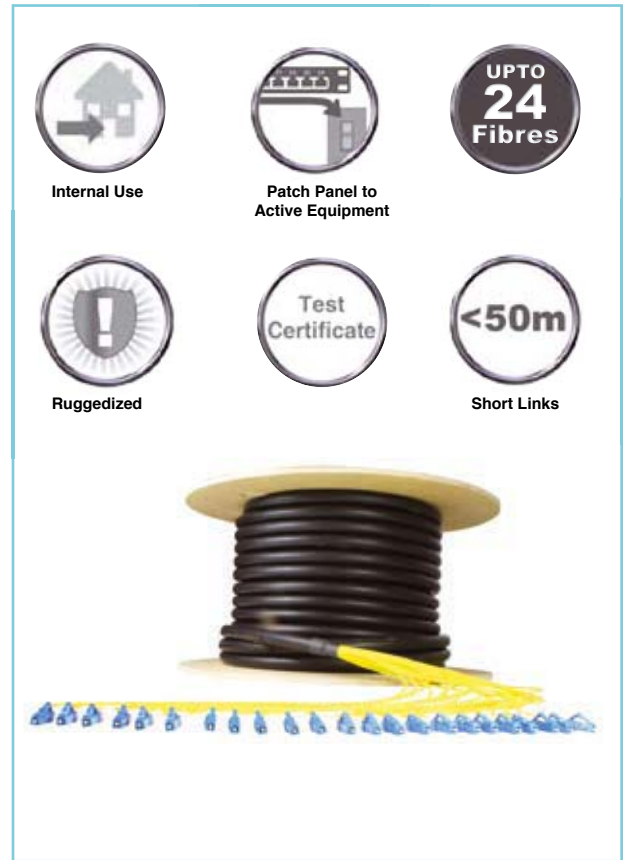
Multicore full breakout cable assemblies are ideal for short cable runs where a direct connection to equipment or panels is required. The 2mm patch lead style cable subunits are ruggedized, to protect the optical fibre in the demanding environments outside the patch panel or ODF. The network topology can be reduced and simplified by direct connection; bypassing wall boxes, ODFs or fibre patch panels. The end result is greatly improved fibre management.

Features

- Available in OM1, OM2, OM3, OM4 and OS1/OS2 fibre types
- 2 - 24 core full breakout cable
- 2mm ruggedized tails
- Internal LSZH cable jacket
- Available with all standard connectivity
- Factory Terminated and Tested

Benefits

- Rapid Deployment-** factory terminated cabling saves installation and reconfiguration time eliminating field termination variables
- High Performance and Reliability-** 100% tested- combination of high quality components and manufacturing quality control guarantees product to the highest standards
- Cost Savings-** Installation time involving costly highly qualified workforce is reduced to the minimum
- Direct Connection to Equipment/Panel-** direct connection to active equipment is possible bypassing wall boxes, ODFs and panels reducing fibre management and easing racking space



Application

- Internal Short Links
- Front Panel/Equipment Connections
- Data Centre Infrastructure

Standards Compliance

- TIA/EIA-568-C.3 and ISO/IEC 11801
- ISO/IEC 60793 & ISO/IEC 60794
- ISO/IEC 61754
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

Connector Performance

CONNECTOR MATING	IL Average Standard	IL MAX Standard	IL Average Premium	IL MAX Premium	RETURN LOSS
LC, SC MM	0.15 dB	0.30 dB	0.08 dB	0.15 dB	NA
LC, SC SM	0.18dB	0.25dB	0.12dB	0.15dB	>55/65dB

Cable Performance

FibreType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)
	≤ 0.25 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	≤ 0.34 Typ (1550nm)	≤ 2.9 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)
	≤ 0.19 typ (1550nm)	≤ 1.2 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	≥ 200 (850nm)	≥ 500 (850nm)	≥ 1500 (850nm)	≥ 3500 (850nm)
	NA	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)
	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)

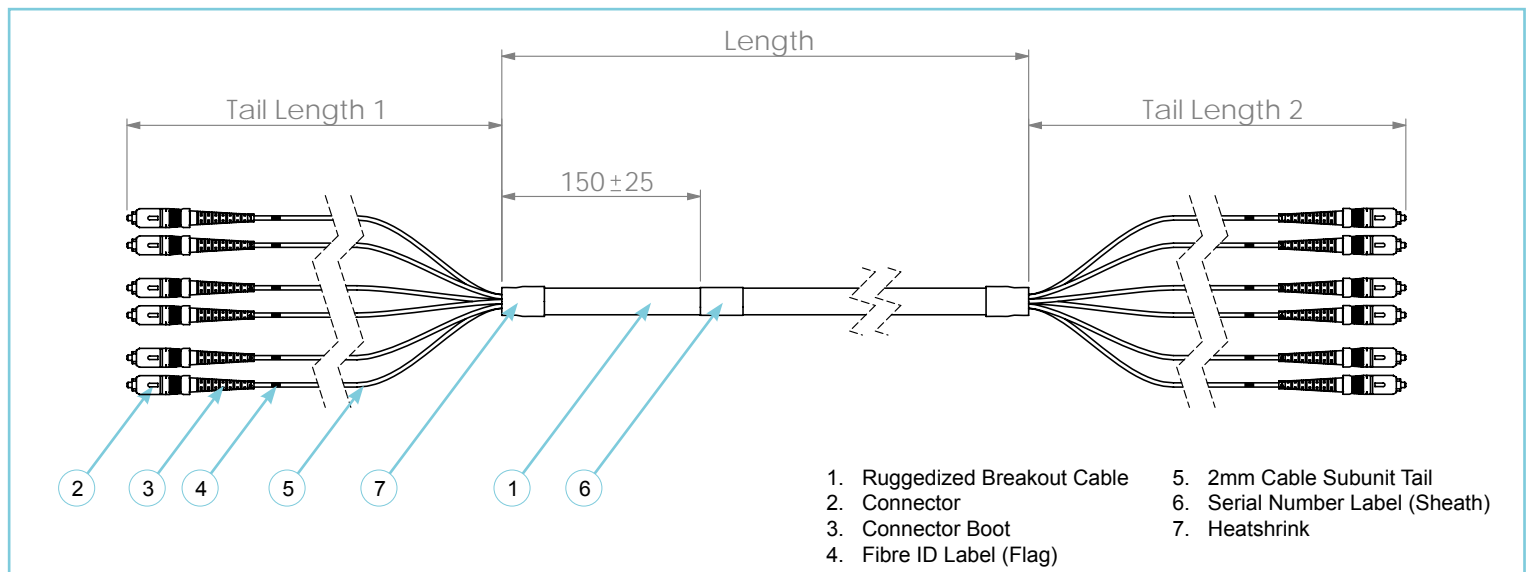


Multifibre Full Breakout Cable Assemblies

V.3.2

Technical Specification

Element	Characteristic
Fibre	OS1/OS2, OM1, OM2, OM3, OM4 (ISO/IEC 60793)
Cable	Full Breakout 2- 24 cores (ISO/IEC 60794) OD 12 cores $11.8 \pm 0.3\text{mm}$ OD 24 cores $14.1 \pm 0.3\text{mm}$ Jacket material: LSZH, OFNP*
Connectors	IEC 61753, IEC 61754, IEC 61755
Packaging	Length <50mtr: HD PE Bag Length >50mtr: Drum
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C



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Multifibre Loose Tube Cable Assemblies

Description

Multicore loose tube cable assemblies feature improved mechanical and optical properties for use in external cabling environments. Assembly tails are protected by reinforced tubing. Cable strength members are attached directly to the pulling element, assuring safe and effective assembly installation. 900um fibre presentation is ideal for installation inside patch panels, ODFs or distribution boxes.

The factory terminated assemblies assure rapid network deployment, contributing to installation cost savings, reduced connector contamination and elimination of unforeseen field installation variables. The quality control guarantees optimised assembly performance and reliability.

Features

- ▶ Available in OM1, OM2, OM3, OM4 and OS1/OS2 fibre types
- ▶ 2 - 24 core tight buffer cable
- ▶ 900µm presentation tails
- ▶ Universal LSZH & external PE cable jacket
- ▶ Available with all standard connectivity
- ▶ Steel Tape Armoured (STA) version available
- ▶ Factory Terminated and Tested

Benefits

- ▶ **Rapid Easy Deployment-** factory terminated cabling saves installation and reconfiguration time eliminating field termination/splicing variables
- ▶ **High Performance and Reliability-** 100% tested- combination of high quality components and manufacturing quality control guarantees product to the highest standards
- ▶ **Cost Savings-** Installation time involving costly highly qualified workforce is reduced to the minimum

Application

- ▶ Universal Internal/External Optical Links
- ▶ Long Backbone Interconnections

Standards Compliance

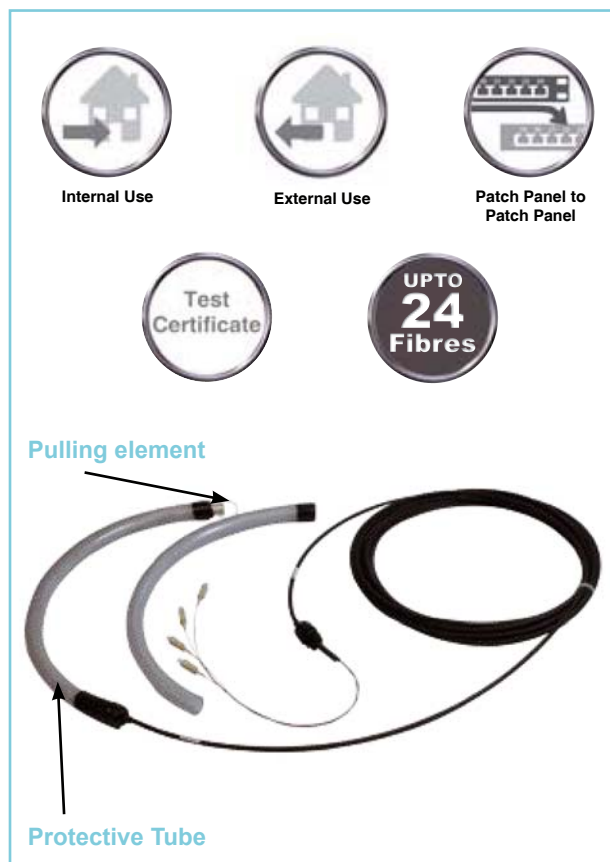
- ▶ TIA/EIA-568-C.3 and ISO/IEC 11801
- ▶ ISO/IEC 60793 & ISO/IEC 60794
- ▶ ISO/IEC 61754
- ▶ Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

Connector Performance

CONNECTOR MATING	IL Average Standard	IL MAX Standard	IL Average Premium	IL MAX Premium	RETURN LOSS
MM	0.15 dB	0.30 dB	0.08 dB	0.15 dB	NA
SM	0.18dB	0.25dB	0.12dB	0.15dB	>55/65dB

Cable Performance

FibreType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)
	≤ 0.25 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	≤ 0.34 Typ (1550nm)	≤ 2.9 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)
	≤ 0.19 typ (1550nm)	≤ 1.2 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	≥ 200 (850nm)	≥ 500 (850nm)	≥ 1500 (850nm)	≥ 3500 (850nm)
	NA	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)
	NA	NA	NA	≥ 500 (1300nm)	≥ 500 (1300nm)

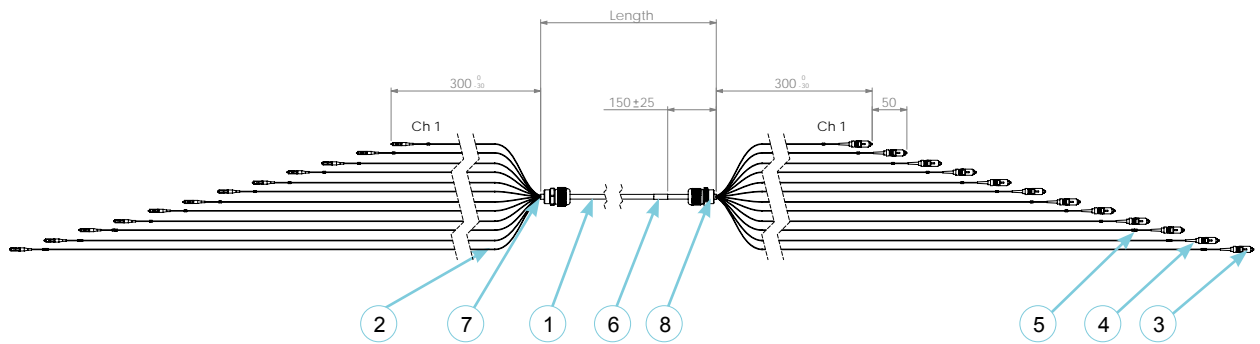


Multifibre Loose Tube Cable Assemblies

V.3.1

Technical Specification

Element	Characteristic
Fibre	OS1/OS2, OM1*, OM2*, OM3, OM4 (ISO/IEC 60793)
Cable	Loose Tube 2- 24 cores (ISO/IEC 60794) OD MAX 24 cores 6.7 ± 0.3mm OD MAX 24 cores (Steel Tape Armored) 10.7 ± 0.3mm Jacket material: LSZH, PE, OFNP* Jacket color: Black
Connectors	IEC 61753, IEC 61754, IEC 61755
Packaging	Length <50mtr: HD PE Bag Length >50mtr: Drum
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C



- | | |
|---------------------|---------------------------------|
| 1. Loose Tube Cable | 5. Fibre ID Label (Flag) |
| 2. 900µm Oversleeve | 6. Serial Number Label (Sheath) |
| 3. Connector | 7. Heatshrink |
| 4. Connector Boot | 8. PG13.5 Gland |



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MTP® Trunk Cable Assemblies

V.3.0

Description

Our MTP trunk multicore cable assemblies facilitate rapid deployment of high density backbone cabling in data centres and other high fibre environments reducing network installation or reconfiguration time and cost. They are used to interconnect cassettes, panels or ruggedized MTP fanouts, spanning MDA, HDA and EDA zones.

MTP trunk assemblies are offered in fibre types in standard 12, 24 or 48 core versions using a compact and rugged microcable structure. The compact cables optimize cableway use and improve airflow.

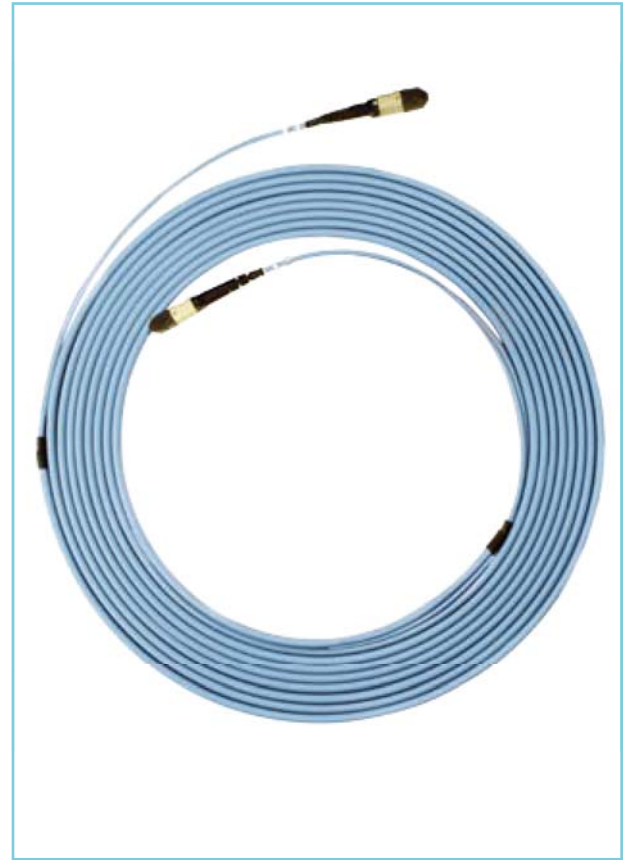
The MTP trunks are built with highest quality components. Standard MTP as well low loss Elite versions are offered featuring low insertion loss for demanding high speed networks where power budgets are critical.

Features

- OS1/2, OM3, OM4 Fibre Grades (OM1 and OM2 available)
- 12, 24 and 48 Core Microcable Trunk
- LSZH, OFNP Cable Jacket
- Female (standard) and Male MTP connectors
- Polarity A (standard), B or C
- Factory Terminated and Tested

Benefits

- **MTP® Interface-** MTP US Conec brand components feature superior optical and mechanical properties.
- **Optimised Performance** - low loss MTP Elite, discreet Premium connectors and OM4 fibre assures low insertion losses and power penalties in tight power budget high speed network environment.
- **High Density-** multifibre connector and compact dimension of ruggedized Microcable ease space in costly data centre environments.
- **Rapid Deployment-** factory terminated modular system saves installation and reconfiguration time during moves, adds and changes.
- **Reliability-** 100% tested- combination of high quality components and manufacturing quality control guarantees product to the highest standards.
- **Next Generation Network Proof-** emerging high speed protocol are going to use MTP interface- your cabling infrastructure remains unchanged. Our



Application

- Data Centre Infrastructure
- Storage Area Network- Fibre Channel
- Parallel Optics
- Infiniband
- Emerging 40 and 100Gbps Protocols

Standards Compliance

- TIA/EIA-568-C.3 and ISO/IEC 11801
- IEC-61754-7 & EIA/TIA-604-5
- NFPA 262 (OFNP) or IEC 60332 (LSZH)
- TIA/EIA 568-B.1-7
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

Connector Performance

CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS
MTP Elite (MM)	0.20 dB	0.35 dB	NA
MTP (MM)	0.35 dB	0.60 dB	NA
MTP Elite (SM)	0.18dB	0.25dB	>60dB
MTP (SM)	0.25dB	0.75dB	>60dB

Cable Performance

FibreType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)
	≤ 0.25 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	≤ 0.34 Typ (1550nm)	≤ 2.9 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)
	≤ 0.19 typ (1550nm)	≤ 1.2 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	≥ 200 (850nm)	≥ 500 (850nm)	≥ 1500 (850nm)	≥ 3500 (850nm)
	NA	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)
	NA	NA	NA	NA	NA

MTP is a registered trademark of US Conec Ltd



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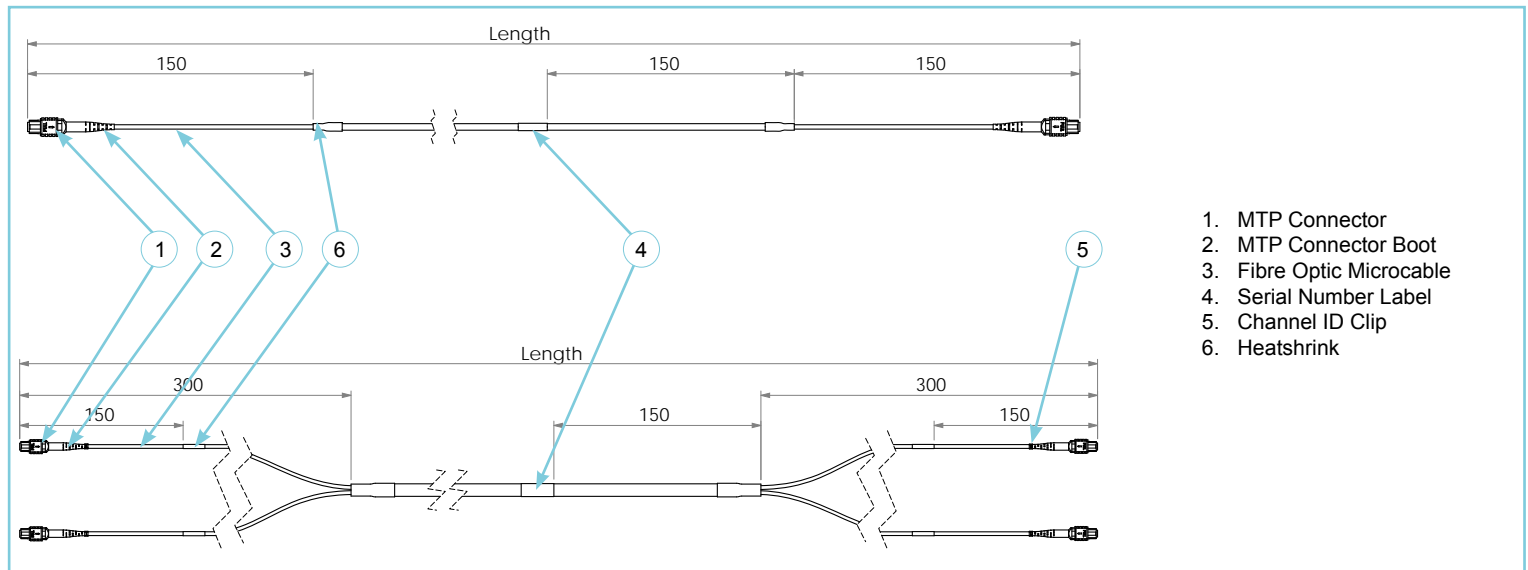
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MTP® Trunk Cable Assemblies

V.3.0

Technical Specification

Element	Characteristic
Fibre	OS1/OS2, OM1*, OM2*, OM3, OM4 (ISO/IEC 60793)
Cable	Microcable- 12, 24, 48 cores (ISO/IEC 60794) MAX OD: Max OD 12 cores 4.5 ± 0.3mm / Max OD 24 cores 4.5 x 7.4 ± 0.3mm Jacket material: LSZH (IEC 60332), OFNP (NFPA 262) Jacket colour: Violet (OM3), Aqua (OM3, OM4), Yellow (OS1/OS2), Orange (OM1, OM2)
Connectors	MTP US Conec (IEC-61754-7 & EIA/TIA-604-5) Boot Colour: Black / Body Sleeve Colour: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow)
Packaging	Length < 50m – PE bag / Length > 50m – Drum
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C



1. MTP Connector
2. MTP Connector Boot
3. Fibre Optic Microcable
4. Serial Number Label
5. Channel ID Clip
6. Heatshrink

MTP® Fan-Out Cable Assemblies

Description

Our MTP ruggedized fan-out assemblies route multifibre MTP connection into discreet connectors. They are used to directly interconnect MTP cassettes, panels or backbone MTP assemblies with the active equipment, saving costly data centre rack space and easing fibre management.

MTP fan-out assemblies are offered in fibre types in standard 12, 24 or 48 core versions using a compact and rugged microcable structure. The compact cables optimize cableway use and improve airflow.

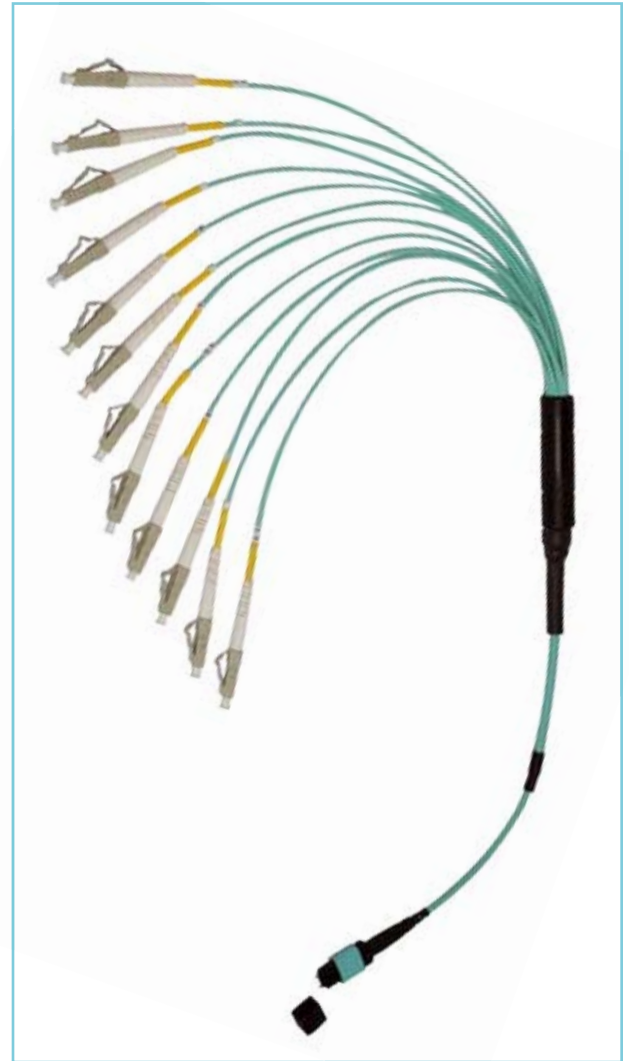
The MTP fan-out are built with highest quality components. Standard MTP as P as well low loss Elite versions are offered featuring low insertion loss for demanding high speed networks where power budgets are critical.

Features

- OS1/2, OM3, OM4 Fibre Versions (OM1 and OM2 available)
- 12, 24 and 48 Core Microcable Trunk Assemblies
- LSZH, OFNP Cable Jacket
- Female or Male MTP connectors
- Factory Terminated and Tested

Benefits

- MTP® Interface-** MTP US Conec brand components feature superior optical and mechanical properties.
- Optimised Performance** - low loss MTP Elite, discreet Premium connectors and OM4 fibre assures low insertion losses and power penalties in tight power budget high speed network environment.
- High Density-** ruggedized fan-out allows for direct connection between backbone and active equipment eliminating rack space usage
- Rapid Deployment-** factory terminated modular system saves installation and reconfiguration time during moves, adds and changes.
- Reliability-** 100% tested- combination of high quality components and manufacturing quality control guarantees product to the highest standards.



Technical Specification

- Data Centre Infrastructure
- Storage Area Network- Fibre Channel
- Parallel Optics & Infiniband
- Emerging 40 and 100Gbps Protocols

Standards Compliance

- TIA/EIA-568-C.3 and ISO/IEC 11801
- IEC-61754-7 & EIA/TIA-604-5
- NFPA 262 (OFNP) or IEC 60332 (LSZH)
- TIA/EIA 568-B.1-7
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

Connector Performance

CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS	CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS
MTP Elite (MM)	0.20 dB	0.35 dB	NA	MTP Elite (SM)	0.18 dB	0.25 dB	>60dB
MTP (MM)	0.35 dB	0.60 dB	NA	MTP (SM)	0.25 dB	0.75 dB	>60dB
LC, SC (MM)	0.15dB	0.30dB	NA	LC, SC (SM)	0.18dB	0.25dB	>55/65dB*
LC, SC Premium (MM)	0.08dB	0.15dB	NA	LC, SC Premium (SM)	0.12dB	0.15dB	>55/65dB*

* UPC/APC

Cable Performance

FibreType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)
	≤ 0.25 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	≤ 0.34 Typ (1550nm)	≤ 2.9 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)
	≤ 0.19 typ (1550nm)	≤ 1.2 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	≥ 200 (850nm)	≥ 500 (850nm)	≥ 1500 (850nm)	≥ 3500 (850nm)
	NA	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)
	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)

MTP is a registered trademark of US Conec Ltd

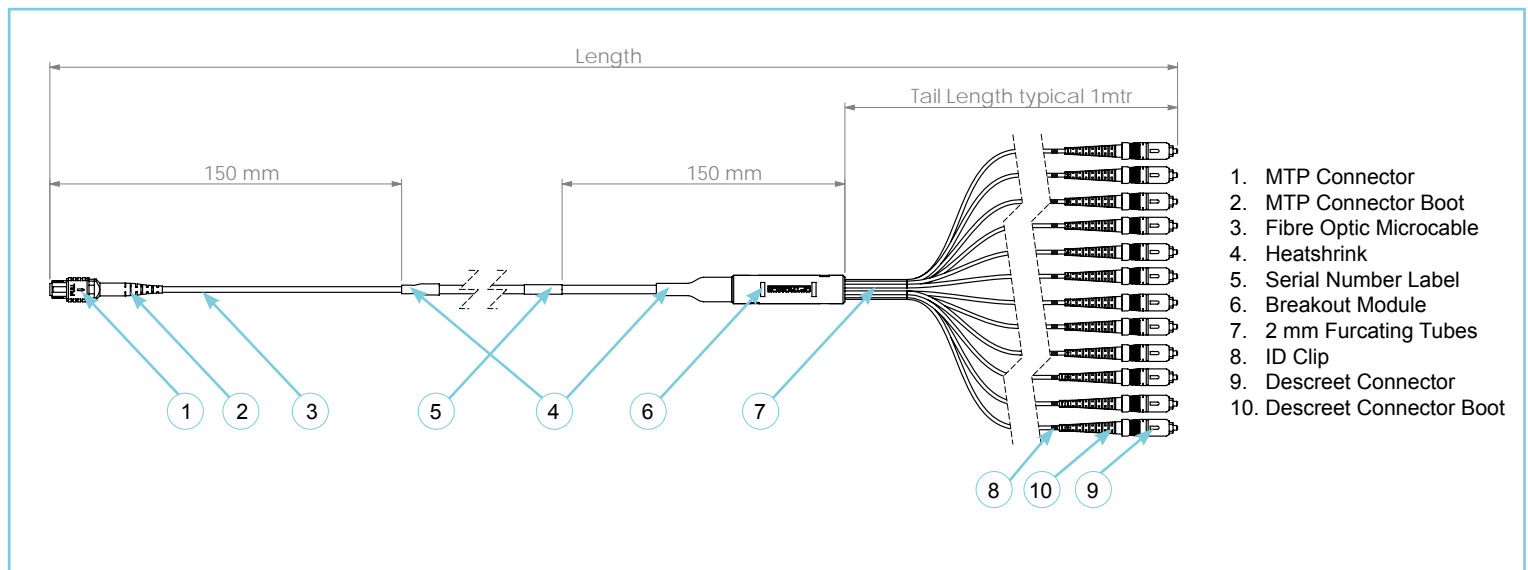


MTP® Fan-Out Cable Assemblies

V.3.0

Technical Specification

Element	Characteristic
Fibre	OS1/OS2, OM1*, OM2*, OM3, OM4 (ISO/IEC 60793)
Cable	Microcable- 12, 24, 48 cores (ISO/IEC 60794) MAX OD: Max OD 12 cores 4.5 ± 0.3mm / Max OD 24 cores 4.5 x 7.4 ± 0.3mm Jacket material: LSZH, OFNP Jacket colour: Violet (OM3), Aqua (OM3, OM4), Yellow (OS1/OS2)
Connectors	MTP US Conec (IEC-61754-7 & EIA/TIA-604-5) Boot Colour: Black Body Sleeve Colour: MM (Beige), MM Elite (Aqua), SM (Green), SM Elite (Yellow) LC or SC (IEC 61754-20) Boot Colour: White Housing Color: Beige (MM), Blue (SM), Green (SM/APC)
Packaging	Length < 50m – PE bag / Length > 50m – Drum
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40 ~ +70°C



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Fan Out Kits

Description

Indoor Buffer Tube Fan-Out Kits are specifically designed for the termination of 6 and 12 Fibre loose tube cables. These fan-out kits provide the ultimate solution for those users who wish to field-install connectors. The kits provide the most compact, easy-to-install fan-out solution which requires no additional hardware or space than that required for terminating tight-buffered cables.

The Fan-Out Kit features a 900 micron fan-out assembly that is colour coded to match the fibres you are terminating. The Fan-Out assembly is available for 6 or 12 fibre units in a length of 1.2m.

Application

- **Field termination of loose tube cables into indoor cross-connects.**

Features

- **Coloured fan-out tubing**
- **Compact design**
- **Bend radius protection**

Benefits

- **Cost effective**
- **Time saving on site**
- **Makes loose tube fibre easier to work with**

Technical Specification

TUBING SPECIFICATION

I.D	0.5 +/- 0.05mm
O.D	0.9 +/- 0.05mm
Max Tensile Load	45N
Min Bend Radius	13mm
Crush Resistance	52N/cm Max
Temperature Range	-45°C to +85°C

6 Fibre Loose Tube



12 Fibre Loose Tube



900µm Tube Assembly

