



FIBRE OPTIC ASSEMBLIES

PRE-TERMINATED HIGH FIBRE COUNT ASSEMBLIES

SM

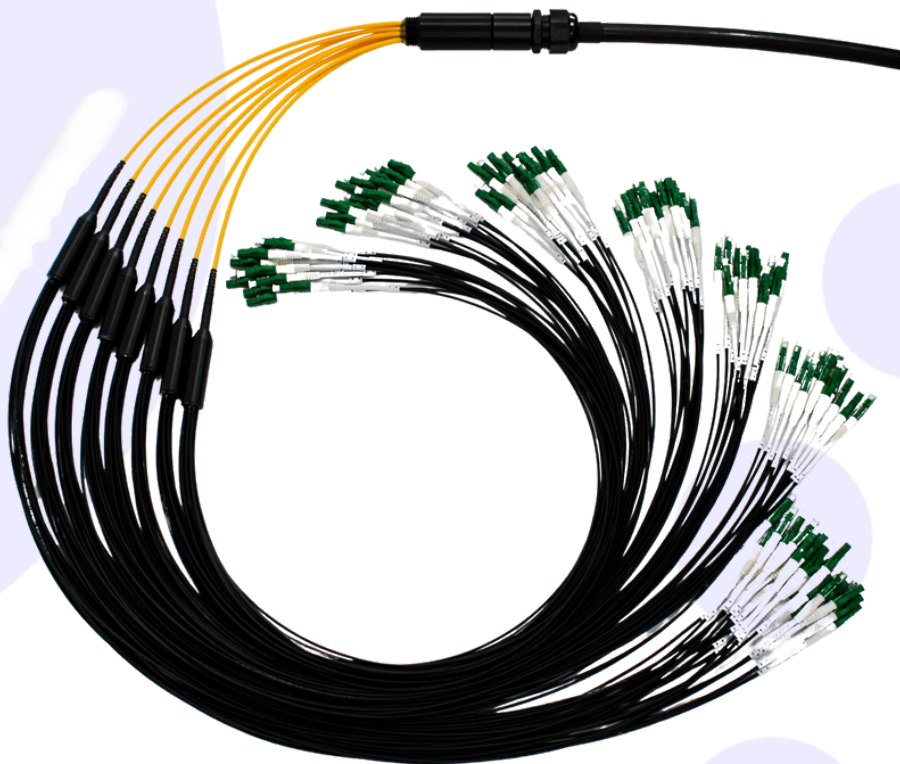
OM1

OM2

OM3

OM4

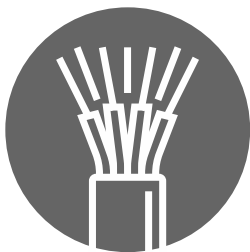
OM5



High Fibre Count in one assembly, with various breakout styles to suit your application and environment.



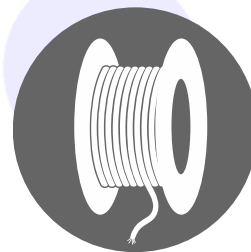
Bespoke UK Manufacture



Accommodate up to 192 Fibres



Various Breakout Styles Available



Supplied On A Drum For Ease of Install

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PRE-TERMINATED HIGH FIBRE COUNT ASSEMBLIES



Maximise performance and minimise space with our pre-terminated, high-density fibre optic assemblies. Our innovative high fibre count solutions deliver unmatched efficiency for demanding data centres, outdoor deployments, and industrial applications.

Utilising our S-Line and M-Line breakout designs, we create bespoke configurations with a single or multi-breakout style to suit your requirements. With ruggedised tails and a fibre count of up to 192, these cables offer the perfect balance of power and space optimisation.

Available in Single-mode and Multimode, all of our pre-terminated assemblies are manufactured in our dedicated UK facility, custom made to your specifications.

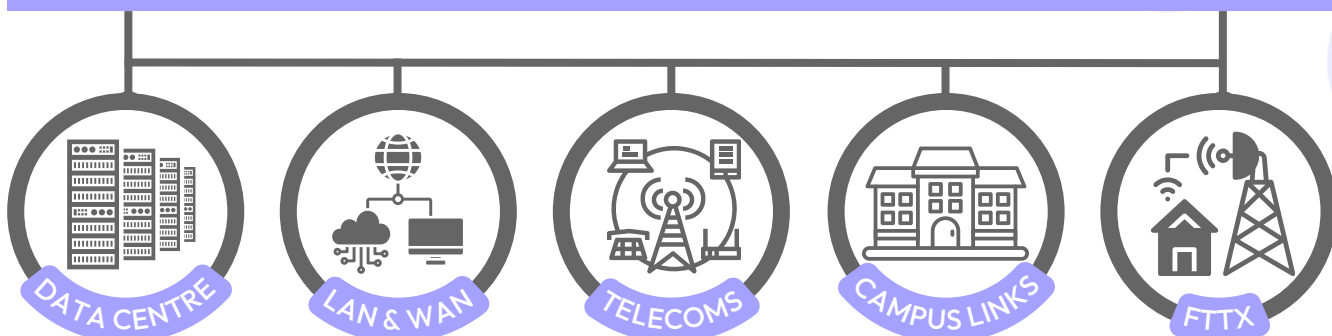
FEATURES

- ✓ **UK Manufacture:**
Bespoke design, high precision, consistent quality and fast turnaround.
- ✓ **Ruggedised Tails:**
Enabling direct point to point patching, or used within a patch panel.
- ✓ **Multi Loose Tube Design:**
Central Loose Tube cables are slim and lightweight by design.
- ✓ **E-Glass Protection:**
These durable cables offer a good level of protection against rodents.
- ✓ **CPR - Eca to B2ca Rated:**
Available with fire rated cable.

BENEFITS

- ✓ **Pre-Terminated Solution:**
No onsite termination required; enabling for faster, more efficient installation.
- ✓ **Best Suited to Outdoor & Ducts:**
Loose Tube cables can withstand outdoor application and harsh conditions.
- ✓ **Multiple Breakout Styles:**
Single and Multi-breakout configurations to suit your application and environment.
- ✓ **Cost-Effective:**
Delivers a high fibre count within one assembly as opposed to multiple.
- ✓ **Versatility:**
Gel filled tubes are ideal for outdoor/duct use & dry tube styles suited to indoor use.

APPLICATIONS



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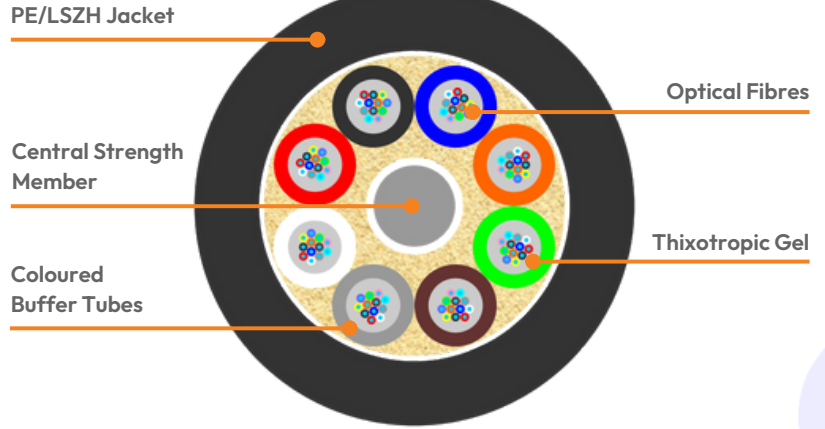
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NB: Construction of a gel filled Multi Loose Tube

CABLE CONSTRUCTION

- Central Loose Tube
- Multiple Loose Tubes (Gel/Dry)
- Multiple 250µm fibres
- E-Glass protection
- 10-15.5mm jacket
- PE, PUR & Mil-Tac jackets available
- CPR - Eca, Dca, Cca, B2ca



SPECIFICATIONS

Element	Characteristic
Fibre Mode	Single-mode Multimode: OM1, OM2, OM3, OM4, OM5
Fibre Count	48, 72, 96, 144, 192
Connector Options	Simplex: LC, SC, E2000, FC/PC, ST, MU. Uniboot: LC-HD, MDC, SN & CS. Polish: UPC & APC.
Cable (LSZH)	Outer Jacket: 10-15.5mm
	Nominal Weight (kg/km): 100-274 (kg/km)
Crush Resistance	2000N/100mm ²
Bend Radius	Install: 20D, Static: 20D
Temperature Range	-20°C ~ +70°C

Connector Type	IL Typical	IL Maximum	Return Loss
Single-mode UPC	<0.25dB	<0.35dB	≥50dB
Single-mode APC	<0.25dB	<0.35dB	≥60dB
Multimode UPC & APC	<0.25dB	<0.50dB	≥25dB



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FIBRE OPTIC ASSEMBLIES

FIBRE SPECIFICATIONS

Fibre Mode	Fast Ethernet	1000Base-SX	10GBase-SR	40GBase-SR4	100GBase-SR10
Multimode OM1	2km	275m	33m	n/a	n/a
Multimode OM2	2km	550m	82m	n/a	n/a
Multimode OM3	2km	800m	300m	100m	100m
Multimode OM4	2km	1100m	400m	150m	150m
Multimode OM5	2km	1100m	400m	150m	150m
Single-mode	40km	100km	40km	40km	40km

Fibre Mode	Core/Cladding (µm)	Wavelength	Maximum Attenuation
Multimode OM1	62.5/125	850-nm	3.5dB/km
		1300-nm	1.5dB/km
Multimode OM2	50/125	850-nm	3.5dB/km
		1300-nm	1.5dB/km
Multimode OM3	50/125	850-nm	3.0dB/km
		1300-nm	1.5dB/km
Multimode OM4	50/125	850-nm	3.0dB/km
		1300-nm	1.5dB/km
Multimode OM5	50/125	850-nm	3.0dB/km
		923-nm	2.3dB/km
		1300-nm	1.5dB/km
Single-mode	9/125	1310-nm	1.0dB/km
		1550-nm	0.5dB/km

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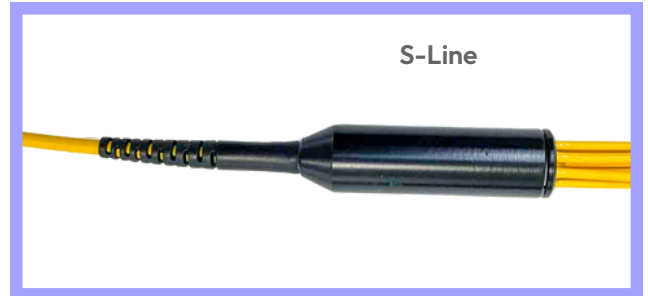
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BREAKOUT STYLES

- S-Line 14mm diameter with 12x 2mm tails.
- Sole, Dual, Quad, Hexa and OctoConnect options (see Breakout Guide).
- M-Line 28mm diameter with 24x 2mm tails.
- Sole, Dual, Trio and QuadConnect options (see Breakout Guide).
- Breakout tails from 0.3m to 1.0m.
- Connector tail lengths from 0.3m to 2.5m.
- Staggered tails to fit protection tube.
- Simplex connectors for single fibre tail.
- Uniboost options for two fibre tails.



PROTECTION OPTIONS

Non-Staggered Tails	
Option	Pull Force
Braided sleeve with pulling eye	50N
PVC sleeve with pulling eye	30N

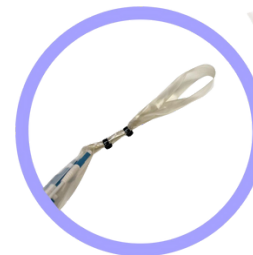
Note: S-Line is better suited to indoor applications fitted with a braided or PVC sleeve.

Staggered Tails	
Option	Pull Force
Braided sleeve with pulling eye	50N
PVC sleeve with pulling eye	30N
Clear tube (28mm widest point)	400N
Reinforced tube (35mm widest point)	400N

Note: M-Line suitable for both indoor and outdoor and can be fitted with a protection tube.



Braided sleeve



PVC sleeve



Clear tube



Reinforced tube

