leader optec

PRE-TERMINATED TIGHT BUFFERED ASSEMBLIES
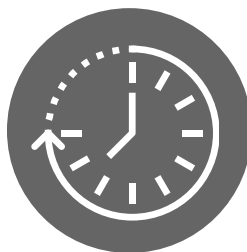
FIBRE OPTIC ASSEMBLIES

SM
OM1
OM2
OM3
OM4
OM5

A simple yet effective solution for your indoor network needs, ideal for use within panels or closures

Bespoke UK Manufacture

Lightweight Design

Reduced Installation Time

Cost-Effective Solution

PRE-TERMINATED TIGHT BUFFERED ASSEMBLIES

Experience faster installation, lower costs, and reliable performance with our pre-terminated tight buffered fibre optic assemblies. Perfect for data centres, building backbones, and connecting devices within buildings, these versatile cables offer a simple and effective solution for your indoor network needs, with some outdoor use due to its LSZH jacket.

Our pre-terminated tight buffered assemblies are connectorised directly onto 900μm tails, colour coded for easy identification. This popular design offers a lightweight yet robust solution, with protection options to suit your environment and application.

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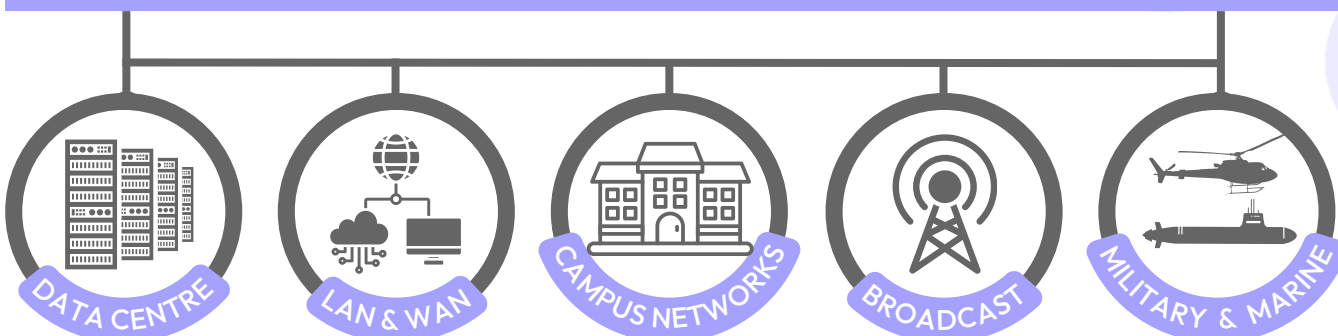
FEATURES

☑ **UK Manufacture:**
Bespoke design, high precision, consistent quality and fast turnaround.

☑ **900μm Tails:**
Colour coded for easy identification and connection to inside panel ports.

☑ **20mm Gland:**
Fitted with a 20mm gland as standard. ATEX approved gland available.

☑ **Versatile Cable:**
Suitable for indoor application, including riser installation, and some outdoor use.

☑ **CPR - Eca to B2ca Rated:**
Available with fire rated cable.

BENEFITS

☑ **Ideal for Indoor Application:**
Designed for inside panels and closures for vertical and horizontal patching.

☑ **Reduced Install Time:**
Pre-termination eliminates field termination or splicing, saving time and labour costs.

☑ **Custom Made & Fast Turnaround:**
Factory terminated connectors provide lowest guaranteed losses.

☑ **Colour Coded For Easy Identification:**
Coloured tails and cables for simplified installation and maintenance.

☑ **Lightweight Design:**
Robust and lightweight, aiding handling and installation.

APPLICATIONS

DATA CENTRE

LAN & WAN

CAMPUS NETWORKS

BROADCAST

MILITARY & MARINE

fibre optic assembly specialists

PRE-TERMINATED TIGHT BUFFERED ASSEMBLIES

NB: Construction of a Tight Buffered cable

CABLE CONSTRUCTION

- Tight buffered style.
- Multiple 900µm fibres.
- Aramid yarn or E-glass protection.
- 6-8.5mm jacket LSZH.
- PUR & Mil-Tac jackets available.
- CPR - Eca, Dca, Cca, B2ca.

LSZH Outer Jacket

E-Glass/ Aramid Yarn

Coloured 900µm Buffer Tubes

Optical Fibres
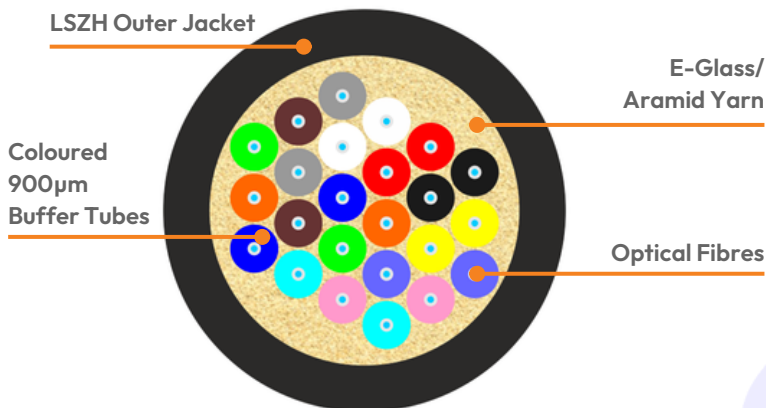
SPECIFICATIONS

Element	Characteristic
Fibre Mode	Single-mode Multimode: OM1, OM2, OM3, OM4, OM5
Fibre Count	2, 4, 8, 12, 16, 24
Connector Options	Simplex: LC, SC, E2000, FC/PC, ST, MU Polish: UPC & APC.
Cable (LSZH)	Outer Jacket: 6-8.5mm
	Nominal Weight: 25-62 (kg/km)
Crush Resistance	2000N/100mm²
Bend Radius	Install: 20D, Static: 10D
Temperature Range	-20°C ~ +60°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

PRE-TERMINATED
TIGHT BUFFERED 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

PRE-TERMINATED TIGHT BUFFERED ASSEMBLIES

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BREAKOUT STYLE

- 20mm cable gland fitted as standard.
- ATEX approved gland available.
- Tail lengths from 0.3m to 3.0m.
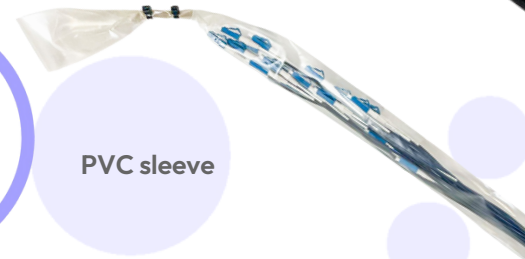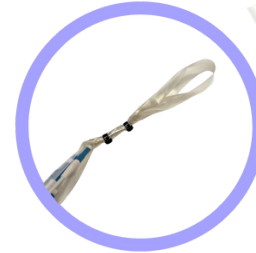- Staggered tails to fit protection tube.
- Simplex style connectors.
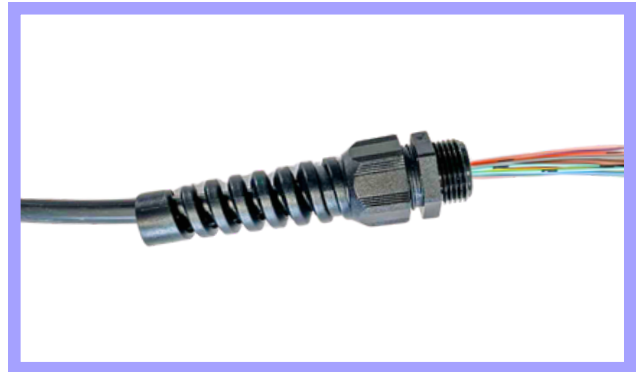
PROTECTION OPTIONS

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

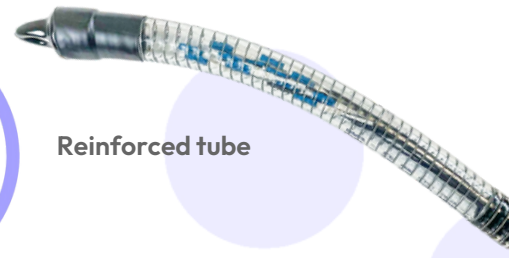| Staggered Tails	
Option	**Pull Force**
Braided sleeve with pulling eye	50N
PVC sleeve with pulling eye	30N
Clear tube (28mm widest point)	400N
Reinforced tube (35mm widest point)	400N

Braided sleeve

PVC sleeve
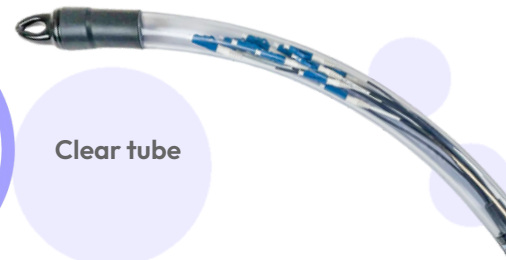
Clear tube

Reinforced tube

sales@leaderoptec.com

www.leaderoptec.com

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