



FIBRE OPTIC ASSEMBLIES

# PRE-TERMINATED CST ARMoured ASSEMBLIES

SM

OM1

OM2

OM3

OM4

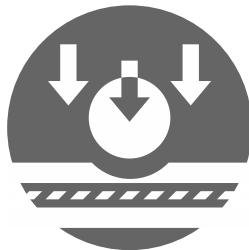
OM5



A perfect blend of strength and flexibility for Data Centres, outdoor deployments and industrial settings



Bespoke UK  
Manufacture



Water & Crush  
Resistant Tube



Exceptional Rodent  
Resistance



Designed For  
Harsh Conditions

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VERSION 1 MARCH 2024



[sales@leaderoptec.com](mailto:sales@leaderoptec.com)



[www.leaderoptec.com](http://www.leaderoptec.com)

# PRE-TERMINATED CST ARMoured ASSEMBLIES



Deploy your network with confidence in harsh outdoor, industrial, or demanding data centre settings. Our pre-terminated corrugated steel tape (CST) fibre optic assemblies offer unparalleled protection against rodent damage, crushing, and extreme conditions.

Featuring a ruggedised design and pre-installed connectors, these cables ensure reliable performance and simplified installation wherever you need it.

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

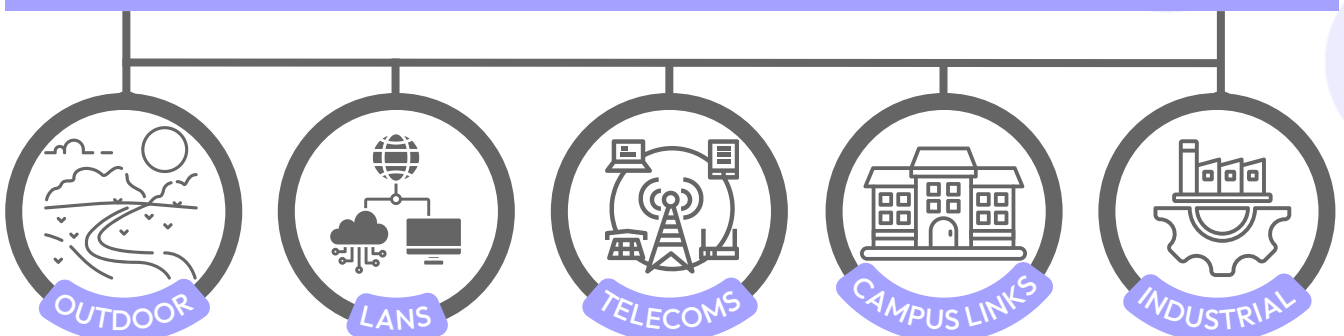
## FEATURES

- ✓ **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.
- ✓ **Steel Tape Armoured:**  
Offering enhanced protection for cables deployed in harsh environments.
- ✓ **Reinforced Protection Tube:**  
Can be fitted with a water and crush resistant tube, for extra protection during installation.

## BENEFITS

- ✓ **Pre-Terminated Solution:**  
No onsite termination required; enabling for faster, more efficient installation.
- ✓ **Strong By Design:**  
Offering a high level of mechanical and rodent resistance..
- ✓ **Custom Made & Fast Turnaround:**  
Factory terminated connectors provide lowest guaranteed losses.
- ✓ **Versatile Solution:**  
Suitable for use in a variety of settings, including direct burial.

## APPLICATIONS



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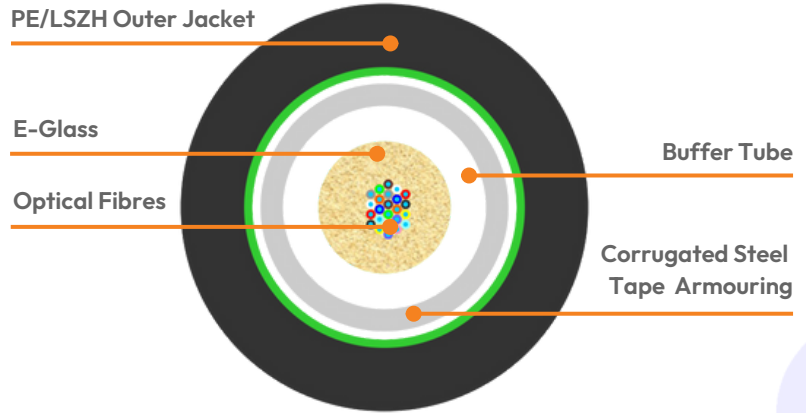
# PRE-TERMINATED CST ARMoured ASSEMBLIES



NB: Construction of a CST Armoured cable

## CABLE CONSTRUCTION

- Central loose tube.
- Gel filled tubes.
- Multiple 250µm fibres.
- E-glass protection.
- Steel tape armouring.
- 8.5-10.5mm outer jacket.
- PE, LSZH.
- CPR - Eca, Dca, Cca, B2ca.



## SPECIFICATIONS

Element	Characteristic
Fibre Mode	Single-mode Multimode: OM1, OM2, OM3, OM4, OM5
Fibre Count	2, 4, 8, 12, 16, 24
Connector Options	LC, SC, ST, FC, E2000, MU Uniboot: LC, MDC, SN & CS Polish: UPC & APC
Cable (LSZH)	Outer Jacket: 8.5-10.5mm
	Nominal Weight: 97-107 (kg/km)
Crush Resistance	3000N/100mm <sup>2</sup>
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



# PRE-TERMINATED CST ARMoured ASSEMBLIES



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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# PRE-TERMINATED CST ARMoured ASSEMBLIES



## BREAKOUT STYLE

- M-Line 28mm diameter with 24 x 2mm tails.
- Metallic gland with armour anchored within.
- Tail lengths from 0.3m to 2.5m.
- Tails contain one or two fibres.
- Staggered tails to fit protection tube.
- Simplex connectors for single fibre tails.
- Uniboot options for two fibre tails.



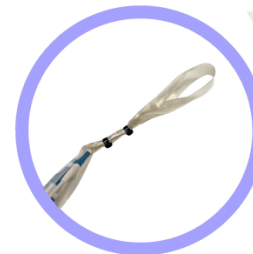
## PROTECTION OPTIONS

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

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

