



PRE-TERMINATED CST ARMoured ASSEMBLIES

SM

OM1

OM2

OM3

OM4

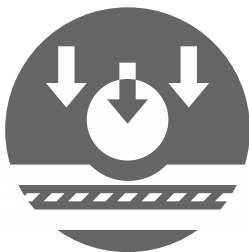
OM5



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

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.

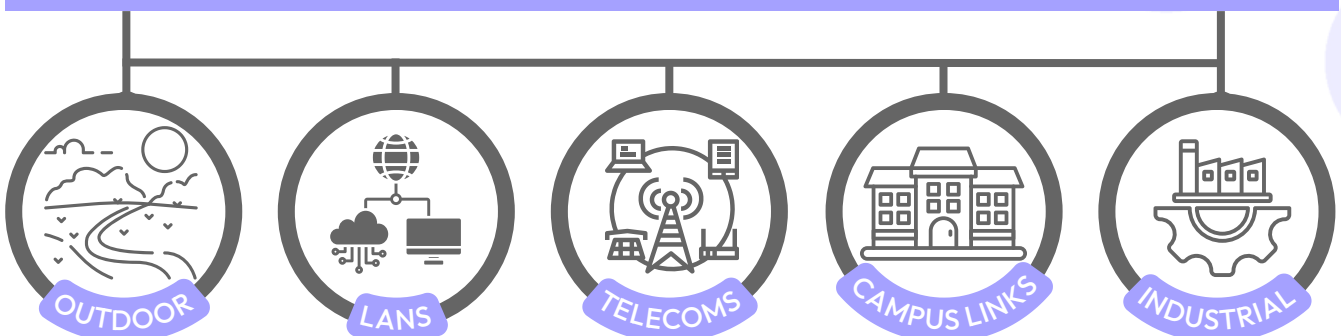
FEATURES

- ✓ **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



fibre optic assembly specialists

VERSION 1 MARCH 2024



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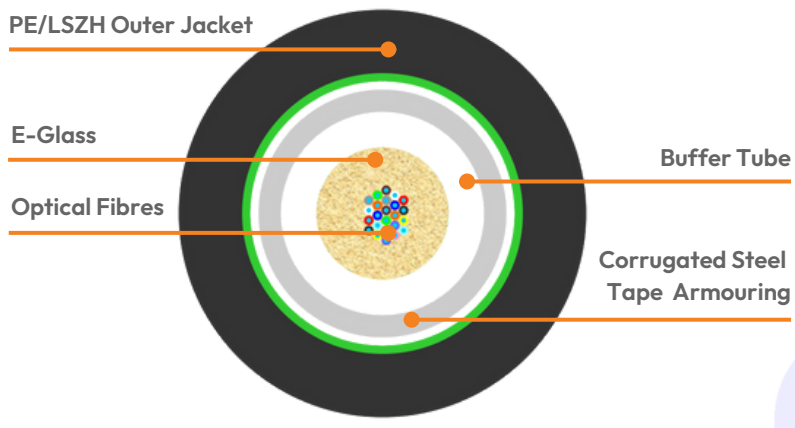
PRE-TERMINATED CST ARMoured ASSEMBLIES



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/100mm² |
| Bend Radius | Install: 20D, Static: 20D |
| Temperature Range | -20°C ~ +70°C |

| Connector Type | IL Typical | IL Maximum | Return Loss |
|---------------------|------------|------------|-------------|
| Single-mode UPC | 0.15dB | 0.35dB | ≥45dB |
| Single-mode APC | 0.15dB | 0.35dB | ≥60dB |
| Multimode UPC & APC | 0.25dB | 0.50dB | ≥25dB |

PRE-TERMINATED
CST ARMoured 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 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 one fibre tail.
- Uniboot options for two fibre tails.



PROTECTION OPTIONS

Non-Staggered Tails

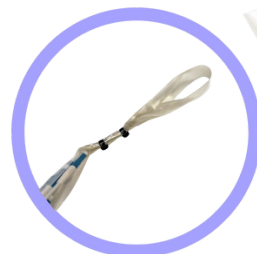
| Option | Pull Force |
|---------------------------------|------------|
| Braided sleeve with pulling eye | 50N |
| PVC sleeve with pulling eye | 30N |

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