

## STA SLT Rodent Resistant Fibre Optic Cable with E-glass Strength Member (2-24 Fibres)

2 to 24 fibre OM1, OM2, OM3, OM4 multimode or OS1/OS2 (ITU-T G.652D) singlemode 250 µm single loose tube metallic armoured internal/external rodent resistant duct and direct burial cables with E-glass strength members, and Low Smoke Zero Halogen (LSZH) or High Density Polyethylene (HDPE) jacket

The single loose tube cables consists of 2 to 24, 250 µm optical fibres in a single gel filled loose tube with longitudinally applied E-glass non metallic strength members, Corrugated Steel Tape (CST) armouring and LSZH or HDPE jacket.

### Features/Benefits

- > Choice of fibre types
- > Colour coded fibres
- > CST armouring for enhanced impact, crush and rodent resistance
- > Compact 250 µm loose tube construction
- > Flame retardant LSZH jacket for enhanced fire performance or HDPE jacket for environmental protection and water permeation resistance

### Applications

- > Suitable for internal/external duct and direct burial applications
- > Suitable for environments where impact protection is required
- > Ideal for intra building links in campus environments

### Technical Specification

| PARAMETER  | UNIT        | VALUE                   |
|--|-------------|-------------------------|
| Crush  | N/100mm     | 2000                    |
| Strength member  |             | E-glass                 |
| Storage temperature  | °C          | -20 to 60               |
| Installation temperature                                     | °C          | -20 to 60               |
| Operating temperature  | °C          | -20 to 60               |
| Nominal weight 2f to 12f                                     | kg/km       | LSZH 95 HDPE 73         |
| Nominal weight 14f to 24f                                    | kg/km       | LSZH 110 HDPE 86        |
| Fibre count  | n           | 2, 4, 6, 8, 12, 16 & 24 |
| Nominal outer diameter 2f to 12f                             | mm          | 8.5 ±0.3                |
| Nominal outer diameter 14f to 24f                            | mm          | 9.2 ±0.3                |
| Maximum tensile load (Short Term)                            | N           | 1000                    |
| Maximum tensile load (Long Term)                             | N           | 500                     |
| Minimum bend radius  | mm          | Installed 10D           |
| Minimum bend radius  | mm          | Loaded 20D              |
| Drum length  | km          | 2 or 4                  |
| Plywood drum dimensions (Flange,Barrel,Width) 4km 2f to 12f  | mm (approx) | F1000, B510, W690       |
| Drum weight with cable 4km 2f to 12f                         | kg (approx) | LSZH 398 HDPE 310       |
| Plywood drum dimensions (Flange,Barrel,Width) 4km 14f to 24f | mm (approx) | F1100, B500, W690       |
| Drum weight with cable 4km 14f to 24f                        | kg (approx) | LSZH 461 HDPE 365       |



### Fibre Identification

| No     | 1    | 2      | 3     | 4     | 5    | 6     | 7   | 8     | 9      | 10     | 11   | 12   |
|--------|------|--------|-------|-------|------|-------|-----|-------|--------|--------|------|------|
| Colour | Blue | Orange | Green | Brown | Grey | White | Red | Black | Yellow | Violet | Pink | Aqua |

| No     | 13         | 14           | 15          | 16          | 17         | 18          | 19        | 20            | 21           | 22           | 23         | 24         |
|--------|------------|--------------|-------------|-------------|------------|-------------|-----------|---------------|--------------|--------------|------------|------------|
| Colour | Blue<br>+b | Orange<br>+b | Green<br>+b | Brown<br>+b | Grey<br>+b | White<br>+b | Red<br>+b | Natural<br>+b | Yellow<br>+b | Violet<br>+b | Pink<br>+b | Aqua<br>+b |

+b = fibre with a black band ring mark

### Fire Performance

| FIRE TEST DESCRIPTION | FIRE TEST SPECIFICATION |
|-----------------------|-------------------------|
| Smoke emission        | IEC 61034-1 & 2         |
| Flammability          | IEC 60332-1             |
| Toxicity              | IEC 60754-1             |
| Acid gas emission     | IEC 60754-2             |

### Ordering Information

| DESCRIPTION                                      | PART NO.        |
|--|-----------------|
| OM1 250 µm Single tube CST LSZH                  | OM1LTSTA**UBK/Z |
| OM2 250 µm Single tube CST LSZH                  | OM2LTSTA**UBK/Z |
| OM3 250 µm Single tube CST LSZH                  | OM3LTSTA**UBK/Z |
| OM4 250 µm Single tube CST LSZH                  | OM4LTSTA**UBK/Z |
| OS1/OS2 ITU-T G.652D 250 µm Single tube CST LSZH | OS1LTSTA**UBK/Z |
| OM1 250 µm Single tube CST PE                    | OM1LTSTA**PBK/Z |
| OM2 250 µm Single tube CST PE                    | OM2LTSTA**PBK/Z |
| OM3 250 µm Single tube CST PE                    | OM3LTSTA**PBK/Z |
| OM4 250 µm Single tube CST PE                    | OM4LTSTA**PBK/Z |
| OS1/OS2 ITU-T G.652D 250 µm Single tube CST PE   | OS1LTSTA**PBK/Z |

Where \*\* is the fibre count between 2 and 24