

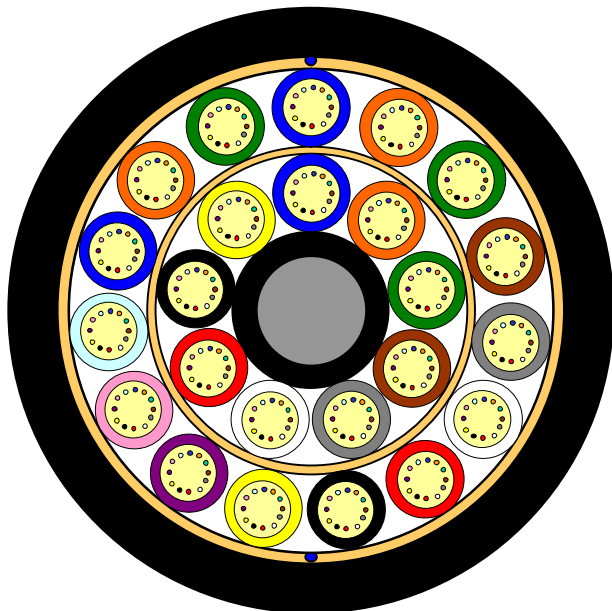
# Loose Tube Fibre Optic Outdoor Cable

## 24 Element All Dielectric Dry Core Design

MiDia®



Issue May 2017  
according to **OFS Generic Specification**



### Application

Optimised for Air-Blown Installation

### Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Water Blocking Material
- Ripcord
- PE-Jacket

### Features

- Small tubes for a reduced outer diameter
- Dry Core Design – Cable core water blocked by means of dry “water swellable” technology - for quicker, cleaner cable prep for jointing
- Individual coloured tubes

Version illustrated is the 288 Fibre Cable

| Fibre Count | Tubes | Core Design       | Outer Diameter [mm] | Cable Weight [kg/km] | Standard Length [m]       | AT-Code**         |
|-------------|-------|-------------------|---------------------|----------------------|---------------------------|-------------------|
| 192         | 16    | 1+24 (8 Fillers*) | 13.0                | 140                  | 2000 / 4000 / 6000 / 8000 | AT-[ ][ ]45CT-192 |
| 240         | 20    | 1+24 (4 Fillers*) | 13.0                | 140                  | 2000 / 4000 / 6000 / 8000 | AT-[ ][ ]45CT-240 |
| 288         | 24    | 1+24              | 13.0                | 140                  | 2000 / 4000 / 6000 / 8000 | AT-[ ][ ]45CT-288 |

This table shows nominal diameter and weight values which may differ in shipments.

\*Fillers are natural coloured \*\*Please refer to the OFS AT- Code. The blanks specify the fibre type.

## Identification

### Fibre Colour Code:

|   |      |   |        |   |        |    |        |    |      |    |       |
|---|------|---|--------|---|--------|----|--------|----|------|----|-------|
| 1 | Blue | 2 | Orange | 3 | Green  | 4  | Brown  | 5  | Grey | 6  | White |
| 7 | Red  | 8 | Black  | 9 | Yellow | 10 | Violet | 11 | Rose | 12 | Aqua  |

Alternative fibre colour code available on request

### Tube Colour Code:

|         |      |         |        |         |        |      |        |      |      |      |       |
|---------|------|---------|--------|---------|--------|------|--------|------|------|------|-------|
| 1+10+22 | Blue | 2+11+23 | Orange | 3+12+24 | Green  | 4+13 | Brown  | 5+14 | Grey | 6+15 | White |
| 7+16    | Red  | 8+17    | Black  | 9+18    | Yellow | 19   | Violet | 20   | Rose | 21   | Aqua  |

Alternative tube colour code available on request

### Sheath Marking

**OFS OPTICAL CABLE MIDIA [ID] [MM/YYYY] [Handset Sign] xxxF [Meter Marking]**

Alternative sheath printing available on request.

# Loose Tube Fibre Optic Outdoor Cable

## 24 Element All Dielectric Dry Core Design

**MiDia®**



Issue May 2017  
according to **OFS Generic Specification**

### Mechanical Properties and Environmental Behaviour

Tests according to IEC 60794

|   | Parameter                               | Requirement   | Value   |
|---|---|---|---|
| <b>Tensile Performance:</b><br>IEC 60794-1-21-E1A and E1B | Long term load                          | - No attenuation increase*<br>- No fibre strain                                     | Load: 1000 N  |
|   | Short term load,<br>during installation | - No changes in attenuation<br>before versus after load<br>- Max. fibre strain 0.5% | Load: 1.5 x W<br><i>W is the weight of the cable in N</i> |
| <b>Crush Performance:</b><br>IEC 60794-1-21-E3A           | Long term load                          | - No attenuation increase*  | Load (Plate / Plate): 500 N                               |
|   | Short term load                         | - No changes in attenuation<br>before versus after load<br>- No damage**            | Load (Plate / Plate): 1500 N                              |
| <b>Bending Performance:</b><br>IEC 60794-1-21-E11         | Handling fixed installed                | - No attenuation increase*  | Bend radius: 200 mm                                       |
|   | During installation<br>(under load)     | - No changes in attenuation<br>before versus after load                             | Bend radius: 260 mm                                       |
| <b>Temperatures:</b><br>IEC 60794-1-22-F1                 | Operation                               | - No attenuation increase*  | -30 to +70°C  |
|   | Installation                            |   | -15 to +40°C  |
|   | Storage/Shipping                        |   | -40 to +70°C  |

\*No changes in attenuation means that any changes in measurement value, either positive or negative within the uncertainty of measurement shall be ignored. The total uncertainty of measurement shall be less than or equal to 0.05 dB.

\*\*Mechanical damage – when examined visually without magnification, there shall be no evidence of damage to the sheath. The imprint of plates will not be considered as damage.

### Shipping Information

| Cable Length | Drum Dimensions (approx.) |         | Shipping Weight (calc.) |              |
|--------------|---------------------------|---------|-------------------------|--------------|
|              | Diameter(battened)        | Width   | Without lagging         | With lagging |
| 2000 m       | 1250 mm                   | 790 mm  | 360 kg                  | 400 kg       |
| 4000 m       | 1600 mm                   | 1055 mm | 690 kg                  | 750 kg       |
| 6000 m       | 1600 mm                   | 1055 mm | 970 kg                  | 1030 kg      |
| 8000 m       | 1750 mm                   | 1055 mm | 1270 kg                 | 1330 kg      |

The shipping information are given for one-way reels. Reusable reels are available on request.

The information is believed to be accurate at time of issue.

OFS reserves the right to improve, enhance and modify the features and specifications of OFS products without prior notification.

Please ensure you have the latest version of the data sheet.

This data sheet is property of OFS. For additional information please contact your sales representative.

You can also visit our

website at <http://www.ofsoptics.com>.

Telephone: +49 (0) 228 7489 201

Email: [cableinfo@ofsoptics.com](mailto:cableinfo@ofsoptics.com)

MiDia is a registered trademark of Fitel USA Corp.

