

Loose Tube Fibre Optic Outdoor Cable

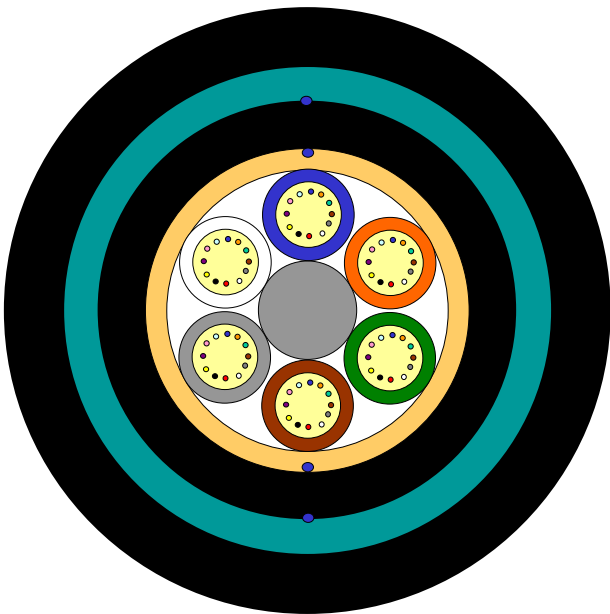
6 Element Dry Core Design

MiDia® Armour



Issue July 2024

according to OFS FURUKAWA SOLUTIONS Generic Specification



Application

Mainly used for direct burial and for Duct-Installation (HD-PE Tubes) by Cable Pulling

Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Water Blocking Material
- Inner PE-Jacket
- Corrugated Steel Tape
- Ripcords
- Outer PE-Jacket

Features

- Armour Cable – high mechanical protection and effective barrier against rodents and Lightning
- 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 72 Fibre Cable

| Fibre Count | Tubes | Core Design | Outer Diameter [mm] | Cable Weight [kg/km] | Standard Length [m] | AT-Code** |
|-------------|---------|------------------|---------------------|----------------------|---------------------------|--------------------|
| 12 | 1 (12F) | 1+6 (5 Fillers*) | 12.2 | 150 | 2000 / 4000 / 6000 / 8000 | AT-[][] NFCT-012 |
| 24 | 2 (12F) | 1+6 (4 Fillers*) | 12.2 | 150 | 2000 / 4000 / 6000 / 8000 | AT-[][] NFCT-024 |
| 36 | 3 (12F) | 1+6 (3 Fillers*) | 12.2 | 150 | 2000 / 4000 / 6000 / 8000 | AT-[][] NFCT-036 |
| 48 | 4 (12F) | 1+6 (2 Fillers*) | 12.2 | 150 | 2000 / 4000 / 6000 / 8000 | AT-[][] NFCT-048 |
| 48 | 5 (12F) | 1+6 (1 Filler*) | 12.2 | 150 | 2000 / 4000 / 6000 / 8000 | AT-[][] NFCT-060 |
| 72 | 6 (12F) | 1+6 | 12.2 | 150 | 2000 / 4000 / 6000 / 8000 | AT-[][] NFCT-072 |

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

*Fillers are natural coloured and evenly distributed over the positions.

**Please refer to the OFS FURUKAWA SOLUTIONS AT- Code. The blanks specify the fibre type.

Identification

Tube and 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 tube and fibre colour code available on request

Sheath Marking

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

Alternative sheath printing available on request.

In case of order the exact sheath printing text will be clarified with the customer.

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Mechanical Properties and Environmental Behaviour

Tests according to IEC 60794

| | Parameter | Requirement | Value |
|---|--------------------------------------|--|---|
| Tensile Performance: IEC 60794-1-21-E1A and E1B | Long term load | - No attenuation increase* - No fibre strain | Load: 1000 N |
| | Short term load, during installation | - No changes in attenuation before versus after load - Max. fibre strain 0.5% | Load: 1.0 x W <i>W is the weight of the cable in N</i> |
| Crush Performance: IEC 60794-1-21-E3A | Long term load | - No attenuation increase* | Load (Plate / Plate): 1500 N |
| | Short term load | - No changes in attenuation before versus after load - No damage** | Load (Plate / Plate): 3000 N |
| Bending Performance: IEC 60794-1-21-E11 | Handling fixed installed | - No attenuation increase* | Bend radius: 15x D |
| | During installation (under load) | - No changes in attenuation before versus after load | Bend radius: 20x D <i>D is the cable diameter</i> |
| Temperature Performance: IEC 60794-1-22-F1 | Operation | - No attenuation increase* | -40 to +70°C |
| | Installation | | -15 to +60°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 of 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 | Width | Drum + Cable |
| 2000 m | 1200 mm | 780 mm | 365 Kg |
| 4000 m | 1550 mm | 1060 mm | 730 Kg |
| 6000 m | 1550 mm | 1060 mm | 1030 Kg |
| 8000 m | 1700 mm | 1060 mm | 1370 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.
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You can also visit our website at <http://www.ofsoptics.com>.

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