

Loose Tube Fibre Optic Outdoor Cable

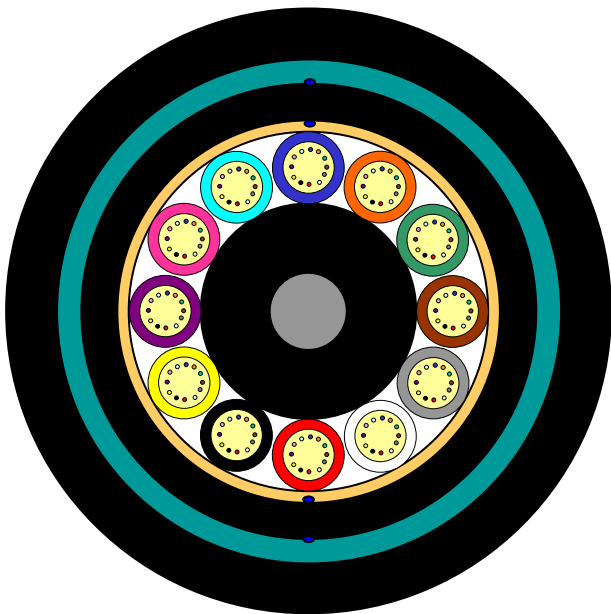
12 Element Dry Core Design

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 144 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code**
120	10	1+12 (2 Fillers*)	15.7	240	2000 / 4000 / 6000	AT-[][] NFCT-120
144	12	1+12	15.7	240	2000 / 4000 / 6000	AT-[][] NFCT-144

This table shows nominal diameter and weight values which may differ in shipments.
*Fillers are natural coloured **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: 1060 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.5%	Load: 1.5 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 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	Width	Drum + Cable
2000 m	1400 mm	780 mm	570 Kg
4000 m	1550 mm	1060 mm	1090 Kg
6000 m	2000 mm	1100 mm	1790 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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