

Loose Tube Fibre Optic Outdoor Cable

36 Element Dry Core Design

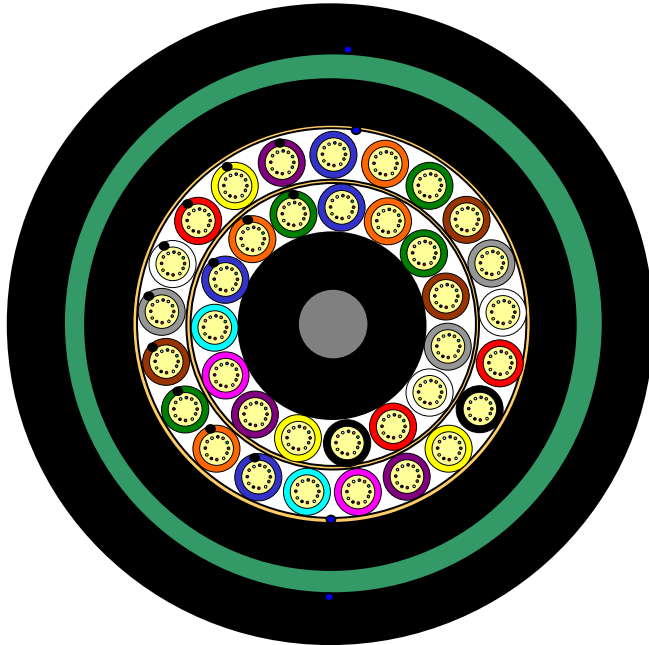
MiDia® Armour



FURUKAWA
SOLUTIONS

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

Version illustrated is the 432 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code**
432	36	1+36	22.9	450	2000 / 4000	AT-[][][]NFCT-432

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

**Please refer to the OFS FURUKAWA SOLUTIONS 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

Tube Colour Code inner Layer (15 tubes):

1+13*	Blue	2+14*	Orange	3+15*	Green	4	Brown	5	Grey	6	White
7	Red	8	Black	9	Yellow	10	Violet	11	Rose	12	Aqua

Tube Colour Code outer Layer (21 tubes):

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

* Tube marked with black marker

Alternative tube and fibre colour code available on request

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Sheath Marking

OFS OPTICAL CABLE MIDIA ARMOUR [ID] [MM/YYYY] [Handset Sign] 432F [Meter Marking]

Alternative sheath printing available on request.
In case of order the exact sheath printing text will be clarified with the customer.

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: 1325 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.33%	Load: 1.0 x W W is the weight of the cable in N
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: 25x D D is the cable diameter
Temperature Performance: 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 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	Cable + Drum
2 Km	1700 mm	1060 mm	1070 Kg
4 Km	2350 mm	1410 mm	2250 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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For additional information please contact your sales representative.
You can also visit our website at <http://www.ofsoptics.com>.

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