

Loose Tube Fibre Optic Outdoor Cable

24 Element All Dielectric Dry Core Design

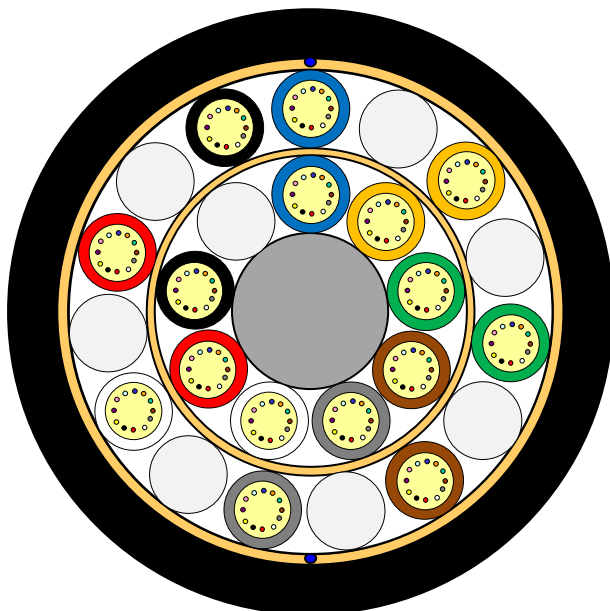
MiDia®



FURUKAWA
SOLUTIONS

Issue March 2024

according to Customised OFS FURUKAWA SOLUTIONS Generic Specification



Application

Optimized for Air-Blown Installation
Recommended duct size for optimized blowing performance: 20 and 26 mm Inner Diameter

Other combinations are possible, please contact us for more information. Distance achievable depends on route, equipment, and quality of duct.

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 192 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code**
12 Fibres per Tube						
192	16	1+24 (8 Fillers*)	13.0 ± 0.3	140	2000 / 4000 / 6000 / 8000	AT-[][]45CT-192
288	24	1+24	13.0 ± 0.3	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 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

Alternative fibre colour code available on request

Tube Colour Code:

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

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. 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: 3500 N
Crush Performance: IEC 60794-1-21-E3A	Long term load	- No attenuation increase*	Load (Plate / Plate): 500 N
	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 1500 N
Impact Performance: IEC 60794-1-21-E4	R of anvil = 300 mm	- No changes in attenuation before versus after load	Energy: 5 J
	3 Impacts ≥ 500 mm apart	- No damage**	
Buffertube Kink: IEC 60794-1-23-G7	5 Cycles L1 = 350 mm L2 = 100 mm	- No kinking	L = 60 mm
Bending Performance: IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 175 mm
	During installation (under load)	- No changes in attenuation before versus after load	Bend radius: 350 mm
Temperature Performance: IEC 60794-1-22-F1	Operation	- No attenuation increase*	-40 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	Width	Cable + Drum
2000 m	1200 mm	780 mm	345 kg
4000 m	1550 mm	1060 mm	690 kg
6000 m	1700 mm	1060 mm	1010 kg
8000 m	2000 mm	1100 mm	1470 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



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