

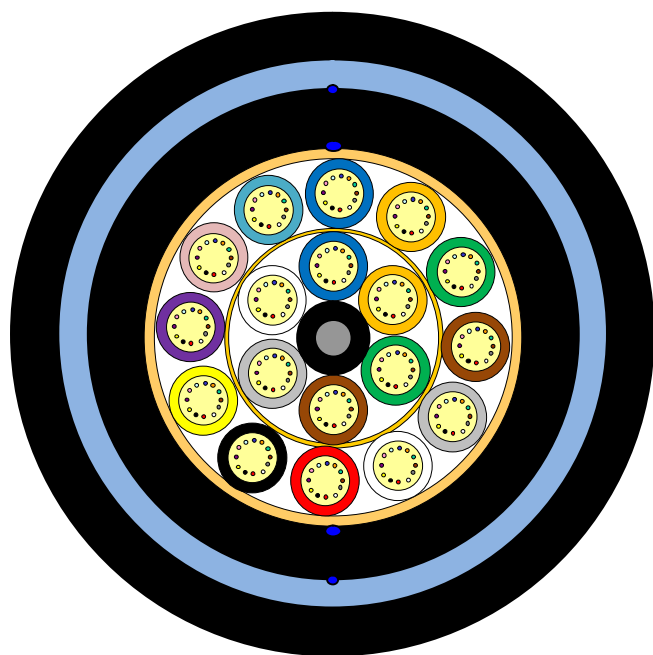
Loose Tube Fibre Optic Outdoor Cable

18 Element All Dielectric Dry Core Design

Standard Dielectric Robust



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



Application

Mainly used in Duct-Installation (HD-PE Tubes)
and installed by Cable Blowing or Pulling as well
as suitable for direct burial into sand beds

Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Water Blocking Material
- Ripcords
- Inner PE-Jacket
- Layers of non-metallic Glass Elements
- Outer PE-Jacket

Features

- PGP (Polyethylene -Glass- Polyethylene) Sheath Construction - offers extra mechanical, environmental and rodents protection
- 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 216 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code**
180	15	1+18 (3 Fillers*)	17,4	235	2000 / 4000 / 6000	AT-[][][]22UT-180-Glass
192	16	1+18 (2 Fillers*)	17,4	235	2000 / 4000 / 6000	AT-[][][]22UT-192-Glass
216	18	1+18	17,4	235	2000 / 4000 / 6000	AT-[][][]22UT-216-Glass

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 tube and fibre colour code available on request

Tube Colour Code:

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

Alternative tube colour code available on request

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Sheath Marking:

OFS OPTICAL CABLE STANDARD DIELECTRIC ROBUST [ID] [MM/YYYY] [Handset Sign] xxxF [Meter Marking]
Alternative sheath printing available on request.

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 0.33%	Load: 2700 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): 3000 N
Bending Performance: IEC 60794-1-21-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 10 x D
	During installation (under load)	- No changes in attenuation before versus after load	Bend radius: 20 x D <i>D is the cable diameter</i>
Temperatures: 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(battened)	Width	Without lagging	With lagging
2 Km	1450 mm	790 mm	580 kg	620 kg
4 Km	1750 mm	1055 mm	1090 kg	1150 kg
6 Km	2050 mm	1100 mm	1590 kg	1670 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.

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