

Loose Tube Fibre Optic Outdoor Cable

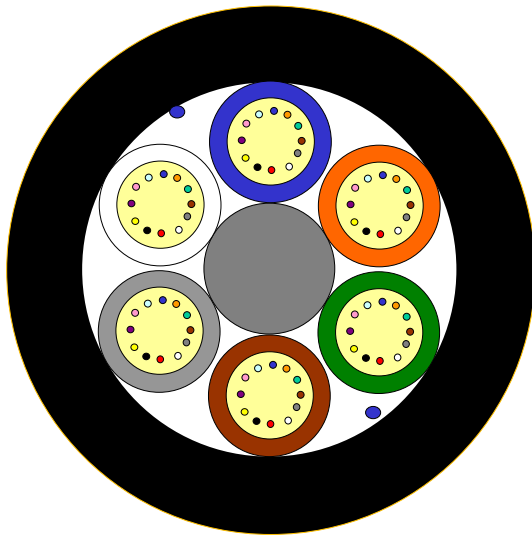
6 Element All Dielectric Dry Core Design

Ultra Short Span Aerial Cable



Authorized Licensee of OFS Fiber Optic Cable Technology

Issue October 2019
according to **DFS Generic Specification**



Application

Short Span Aerial applications up to 30 m

Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Water Blocked Cable Core
- 2 Ripcords
- Black PE-Jacket

Features

- All Dielectric Cable
- 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] |
|-------------|---------|------------------|---------------------|----------------------|---------------------|
| 12 | 1 (12F) | 1+6 (5 Fillers*) | 9.9 | 75 | 2000 / 4000 / 6000 |
| 24 | 2 (12F) | 1+6 (4 Fillers*) | 9.9 | 75 | 2000 / 4000 / 6000 |
| 48 | 4 (12F) | 1+6 (2 Fillers*) | 9.9 | 75 | 2000 / 4000 / 6000 |
| 72 | 6 (12F) | 1+6 (0 Fillers*) | 9.9 | 75 | 2000 / 4000 / 6000 |

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

*Fillers are natural coloured

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 |

Sheath Marking (Inkjet)

DFS OPTICAL CABLE [ID] [MM/YYYY] [Handset Sign] xxxF [Meter Marking]

Alternative sheath printing available on request.

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Mechanical Properties and Environmental Behaviour

Tests according to IEC 60794-1-21 and -1-22

| | Parameter | Requirement | Value |
|---|--|--|--|
| Tensile Performance: IEC 60794-1-21-E1 | Short term load | - Max. fibre strain 0.25% - No changes in attenuation before versus after load* | Load: 2500 N |
| Crush Performance: IEC 60794-1-21-E3A | Short term load | - No attenuation increase - No damage** | Load (Plate / Plate): 2000 N >0.1 dB at any time |
| Bending Performance: IEC 60794-1-21-E11 | Handling fixed installed During installation (under load) | - No attenuation increase* - No changes in attenuation before versus after load | Bend radius: 10 x D Bend radius: 20 x D <i>D is cable diameter</i> |
| Temperatures: IEC 60794-1-22-F1 | Operation Installation Storage/Shipping | - No attenuation increase* | -10 to +70°C + 0 to +60°C -20 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 |
| 2000 m | 1050 mm | 790 mm | 219 kg | 250 kg |
| 4000 m | 1250 mm | 790 mm | 408 kg | 440 kg |
| 6000 m | 1600 mm | 790 mm | 602 kg | 660 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.

DFS reserves the right to improve, enhance and modify the features and specifications of DFS products without prior notification.

Please ensure you have the latest version of the data sheet.

This data sheet is property of DFS.

For additional information please contact your sales representative.

You can also visit our website at <http://www.dartcom.co.za>.

Telephone: 012-345-7530