

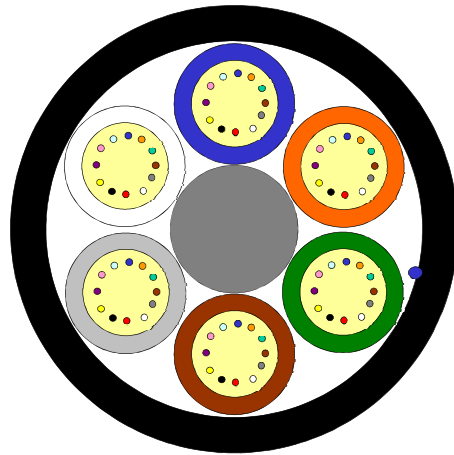
Loose Tube Fibre Optic Outdoor Cable

6 Element All Dielectric Dry Core Design

MiDia® Micro FX



Issue October 2017
according to **DFS Generic Specification**



Application

Air-Blown Installation into Micro-Ducts

Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- 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 72 Fibre Cable

| Fibre Count | Tubes | Core Design | Outer Diameter [mm] | Cable Weight [kg/km] | Standard Length [m] | Product-Code** |
|-------------|-------|-----------------|---------------------|----------------------|---------------------------|----------------------|
| 12 | 1 | 1+6 (5 Filler*) | 6.3 | 35 | 2000 / 4000 / 6000 / 8000 | AT-[][][]46CT-012 |
| 24 | 2 | 1+6 (4 Filler*) | 6.3 | 35 | 2000 / 4000 / 6000 / 8000 | AT-[][][]46CT-024 |
| 48 | 4 | 1+6 (2 Filler*) | 6.3 | 35 | 2000 / 4000 / 6000 / 8000 | AT-[][][]46CT-048 |
| 60 | 5 | 1+6 (1 Filler*) | 6.3 | 35 | 2000 / 4000 / 6000 / 8000 | AT-[][][]46CT-060 |
| 72 | 6 | 1+6 | 6.3 | 35 | 2000 / 4000 / 6000 / 8000 | AT-[][][]46CT-072 |

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

*Fillers are natural coloured **Please refer to the DFS 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

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

Alternative sheath printing available on request.

Loose Tube Fibre Optic Outdoor Cable

6 Element All Dielectric Dry Core Design

MiDia® Micro FX



Issue October 2017
according to **DFS Generic Specification**

Mechanical Properties and Environmental Behaviour

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

| | Parameter | Requirement | Value |
|---|---|--|---|
| Tensile Performance: IEC 60794-1-21-E1A and E1B | Short term load, during installation | - No changes in attenuation before versus after load - Max. fibre strain 0.5% | Load: 700 N |
| Crush Performance: IEC 60794-1-21-E3A | Long term load Short term load | - No attenuation increase* - No changes in attenuation before versus after load - No damage** | Load (Plate / Plate): 300 N Load (Plate / Plate): 1000 N |
| 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: 75 mm Bend radius: 150 mm |
| Temperatures: IEC 60794-1-22-F1 | Operation Installation Storage/Shipping | Single-mode Fibres: - No attenuation increase* | -20 to +70°C - 5 to +40°C -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 for Single-mode Fibres and 0.2 dB for Multimode Fibres.

**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.

*** No changes in attenuation means that any changes in measurement value, either positive or negative within the uncertainty of measurement shall be ignored. The maximal allowance for attenuation changes shall be less than of equal to +/- 0.2 dB/km for 90 % and +/- 0.3 dB/km for 100 % of the fibres.

Shipping Information

| Cable Length | Small Drum Dimensions (approx.) | | Shipping Weight (calc.) | |
|--------------|---------------------------------|--------|-------------------------|--------------|
| | Diameter(battened) | Width | Without lagging | With lagging |
| 2000 m | 1050 mm | 790 mm | 130 kg | 150 kg |
| 4000 m | 1050 mm | 790 mm | 200 kg | 220 kg |
| 6000 m | 1050 mm | 790 mm | 270 kg | 290 kg |
| 8000 m | 1250 mm | 790 mm | 360 kg | 400 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

MiDia is a registered trademark of Fitel USA Corp.