

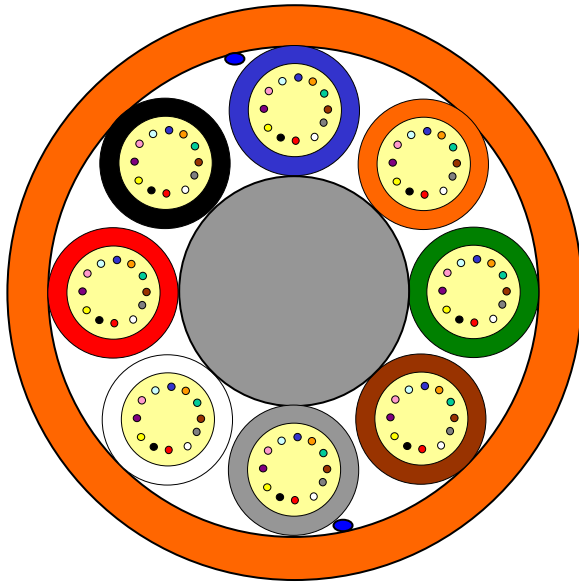
Loose Tube Fibre Optic Outdoor Cable

8 Element All Dielectric Dry Core Design

MiDia® FX – Micro Optical Fibre Cable



Issue May 2018
according to **DFS General Specification**



Application

Air-Blown Installation into Micro-Ducts

Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- 2 Ripcords
- 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 96 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]
96	8	1+8	7.6	55	2000 / 4000 / 6000 / 8000

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

DFS/OFS OPTICAL CABLE O-96F G652D MC L [YYYY] [ID] [Meter Marking] m

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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-E1A and E1B	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.33%	Load: 1080 N
Crush Performance: IEC 60794-1-21-E3A	Short term load	- No attenuation increase >0.1 dB at any time - No damage**	Load (Plate / Plate): 650 N
Bending Performance: IEC 60794-1-21-E11A	Handling fixed installed	- No attenuation increase >0.1 dB at any time - No damage**	Bend Diameter $\leq 12x D$
Temperatures: IEC 60794-1-22-F1	Operation Installation Storage/Shipping	- No attenuation increase >0.1 dB at any time from mean as per spec	-10 to +70°C - 5 to +40°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 of equal to 0.05 dB for Single-mode Fibres.

Mechanical damage – when examined visually without magnification, there shall be no evidence of damage to the sheath or the cable ** elements. The imprint of plates will not be considered as damage (Crush test)

Shipping Information

Cable Length	Small Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	1050 mm	790 mm	170 kg	190 kg
4000 m	1050 mm	790 mm	280 kg	300 kg
6000 m	1250 mm	790 mm	410 kg	450 kg
8000 m	1450 mm	790 mm	550 kg	590 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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You can also visit our website at <http://www.dartcom.co.za>.

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