

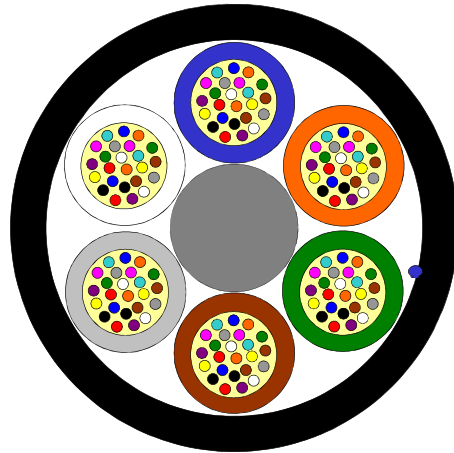
Loose Tube Fibre Optic Outdoor Cable

6 Element All Dielectric Dry Core Design

MiDia^{®200} Micro FX



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



Application

Air-Blown Installation into Micro-Ducts

Design

- Optical Fibres (200µm AllWave[®] FLEX)
- 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 144 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	Product-Code**
24 Fibres per Tube						
96	4	1+6 (2 Filler*)	6.3	40	2000 / 4000 / 6000 / 8000	AT-XEE46CF-096
144	6	1+6	6.3	40	2000 / 4000 / 6000 / 8000	AT-XEE46CF-144

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

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

Identification

Tube Colour Code:

1	Blue	2	Orange	3	Green	4	Brown	5	Grey	6	White
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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
13	Blue*	14	Orange*	15	Green*	16	Brown*	17	Grey*	18	White*
19	Red*	20	Nature	21	Yellow*	22	Violet*	23	Rose*	24	Aqua*

* Black ring

Alternative tube and fibre colour code available on request

Sheath Marking

DFS OPTICAL CABLE MIDIA200 MICRO FX [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-E1A and E1B	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.5%	Load: 800 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	- 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	140 kg	160 kg
4000 m	1050 mm	790 mm	220 kg	240 kg
6000 m	1050 mm	790 mm	300 kg	320 kg
8000 m	1250 mm	790 mm	400 kg	440 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.dartcom.co.za>.
Telephone: 012-345-7530

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