

All-Dielectric Self Supporting (ADSS) Aerial Fibre Optic Cable

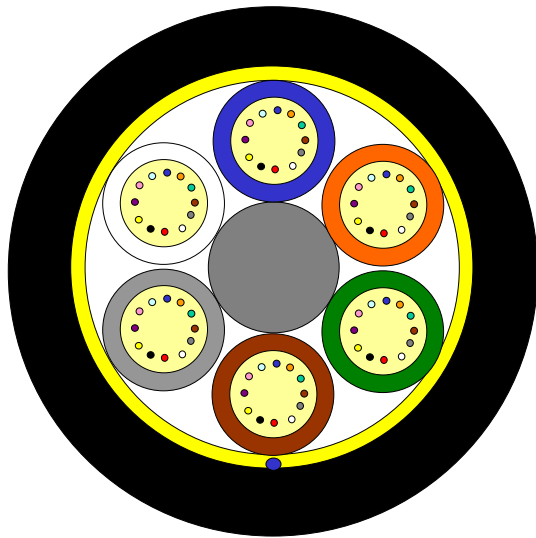
6 Element Dry Core Design

PowerGuide®TTH (CMCA)



Authorized Licensee of OFS Fiber Optic Cable Technology

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



Design

- Optical Fibres
- Gel-filled Buffer Tubes
- Non-metallic Central Member
- Water Blocking Threads
- Non-metallic Aramid Strength Elements
- Ripcords
- Outer PE-Jacket

Benefits

- Outstanding optical performance, durability, and field reliability
- Fast, one-step installation for valuable time and cost savings
- Easily strippable sheath for quick, convenient cable preparation

Version illustrated is the 72 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	Product-Code**
72	6 (12F)	1+6 (0 Filler*)	9.6	70	2000 / 4000 / 6000 / 8000	AT-[][]17DT-072-CMCA

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/OFS OPTICAL CABLE [ID] [MM/YY] [Handset-Sign] XXXF [Meter Marking]

Alternative sheath printing available on request.

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Sag and Tension Calculation

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Loading Conditions

Ice Thickness	10 mm
Wind Pressure	473 N/m ² (100 km/h)
Temperature	- 5 °C
Safety Factor	0 N/m

Tension @ Maximum Span for 1,5% Installation Sag

Short Term	295 kg
Long Term	41 kg

Maximum Span	70 m
Cable Weight	70 kg/km
Cable Diameter	9.6 mm
Installation Temperature	20 °C
Cable Modulus	667 kg/mm ²
Linear Expansion Coefficient	0,00000898 1/°C
Breaking Load	720 kg

No Loading @ Install Temperature 20 C				All Loading Conditions @ Temperature -5 C				
Span	Sag	Install Sag	Tension	Vertical Sag	Tension	Vertical Sag	Horizontal Sag	Angle
m	m	%	kg	% of Span	kg	m	m	Deg
10	0,2	1,50	6	1,1	75	0,1	0,2	66
20	0,3	1,50	12	1,3	123	0,3	0,6	66
30	0,5	1,50	17	1,4	163	0,4	1,0	66
40	0,6	1,50	23	1,6	200	0,6	1,4	66
50	0,8	1,50	29	1,7	233	0,8	1,9	66
60	0,9	1,50	35	1,8	265	1,1	2,4	66
70	1,1	1,50	41	1,9	295	1,3	3,0	66

The recommended maximum space potential at ADSS attachment point is 12 kV

Dead End Assembly:

MOSDORFER Dead-End: AS01-FDES-0350, Max. Tension: 2,500 lbs. (1,134 kg)
PLP Dead-End: Non-standard PLP Dead End, Max. Tension: 2,500 lbs. (1135 kg)

Fixed Tangent Support (Line Angle Changes <= 20 deg & Spans <= 600 ft (183 m))

MOSDORFER: Support Clamp: FOSC 0425
PLP: Dielectric block: Product Not Available
PLP: Aluminum Support: 4450098

Suspended Support (Line Angle Changes <= 20 deg & Spans <= 600 ft (183 m))

PLP: Aluminum Suspension: Product Not Available

Low Tension / Short Span Hardware:

MOSDORFER: Light Tension DE: FOLT0950-CTO, Max. Tension: 800 lbs. (362 kg)
PLP: Lite Tension DE: 2875001C1N, Max. Tension: 800 lbs. (362 kg)
PLP: Lite Support: Non-standard PLP Lite Support
PLP PGTTH Dead End: Not Available

Slack Storage Devices: Not recommended for TR cables

PLP Fiberlign® CLAS Storage System w/cable guide: Product not available

Heliformed Suspension Units (Line angle changes <= 30 degrees):

PLP: Non-standard Suspension Unit
PLP: Product Not Available: Aluminum Suspension with SRR rods, Max Span: 1200 ft (365m)

Vibration Dampers, see Application Note 812 for recommendations:

MOSDORFER Vibration Dampers: SVD0327
PLP Vibration Dampers: 50502272

Down Lead Cushion & Abrasion Protector:

PLP: 8003041, Add "H1" - Wood Attachment Kit & "LTC1" - Lattice Clamp Kit
PLP Abrasion Protector: PTG-0201 Length: 6 ft

Corona coils not required

PLP: Sized to fit appropriate hardware, part numbers available upon 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.

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For additional information please contact your sales representative.

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