

DATA CABLE-FIBRE OPTIC CABLE

Long Span All Dielectric Aerial Self Support (ADSS) Fibre Optic Cable

Cable Description:

Fibre and Buffer Tube Colour Coding:

Fibre and Buffer tubes: TIA / EIA - 578

Fillers: Black (standard) or yellow

Strength Members:

Poly aramid yarn peripheral strength members applied helically in counter rotating layers

Final Sheath Material:

High density polyethylene, UV stabilised with a 2.5% evenly dispersed carbon black. Anti-track option available for installations on HV powerline and railway power feeds

Cable Marking:

CBI Telecom - no. of fibres - type of optical fibre - Fibre Optic Cable - length marking - unique identified cable number. No sheath marking for Anti-track options, instead an identification tape will be used under the outer sheath

Design and Test Criteria:

IEC / ISO 11801

IEC / 60793 and 60794



General Data:

Typical Applications:

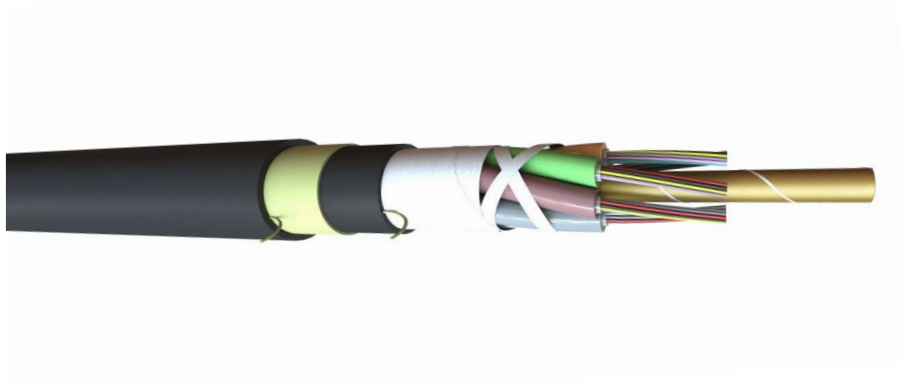
Optimised For Applications on high voltage power routes, railway power feeds, between buildings in a campus environment and traditional telecom pole routes

Cable UV Stabilised and can be electrical degradation protected through proprietary anti-track HDPE sheath options

Span Length All ADSS fibre cables are optimised according to span length up to 850m, operational temperature range, wind speed tolerance and other installation factors. For medium and long span applications, from 200 to 850m, CBI Telecoms will certify both ADSS cable and tension hardware through its development and test facility

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Product Information:

Optical Characteristics		SMF	SMF ULTRA
Specification	ISO / IEC11801	OS1/OS2	OS1/OS2
	ITU-T	G652D	G652A-1
Mode Field Material (MFD)	1310/1550nm (µm)	9.2 ± 0.4	9.2 ± 0.4
Attenuation (SMF)	1310nm (dB/km)	10.4 ± 0.5	10.4 ± 0.5
	1550nm (dB/km)	<0.35	<0.34
	1625nm (dB/km)	<0.22	<0.20
Dispersion	1310/1550nm (ps/km)	<0.25	<0.22
	PMD _Q (ps/√km)	<3.5/18	<3.5/18
Refractive Index		0.06	0.06
Macro-Bend Loss	Radius(mm)/turns/loss(dB)	1.467 / 1.468	1.467 / 1.468
	@ 1550 / 1625nm	25 / 100	25 / 100
		- / 0.05	- / 0.05

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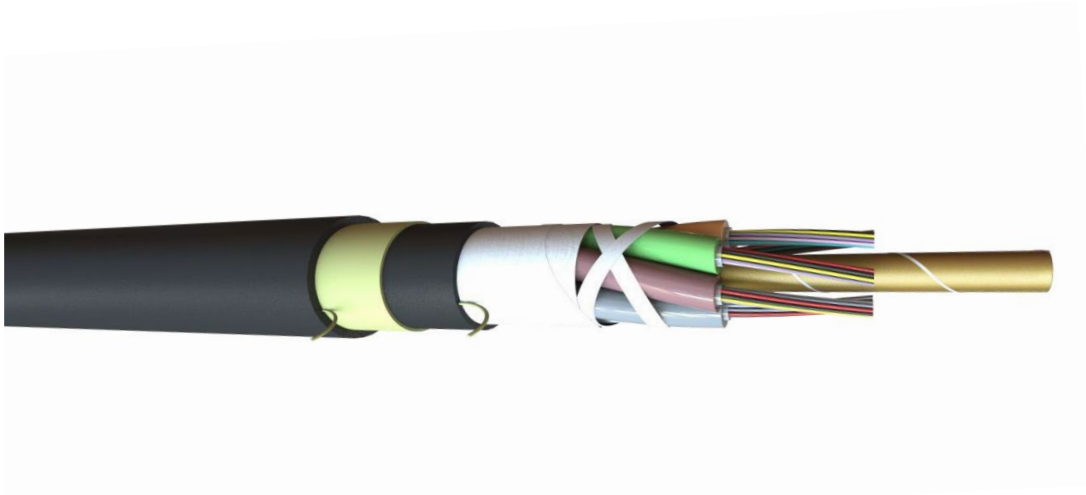
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Product Descriptions, Dimensions and Weights:

Product Description	12 & 24 Fi	36 & 48 Fi	96 Fi	Test Method
No. Elements	5	6	8	-
Cable Diameter (mm)	13.2	14.5	16.7	-
Cable Weight (mm)	145	175	220	-
Maximum Installation Load (N) (EDS)	6000 (4kN nominal)	6000 (4kN nominal)	8000 (4kN nominal)	IEC 60794-1-E1
Maximum Working Load (N) (wind loading; 3 sec gust 125 km/h)	8000	8300	11250	IEC 60794-1-E1
Creep Test (1000 hrs / 10m)	1000hrs	1000hrs	1000hrs	Internal
Aeolian Vibration (100 million cycles)	1 x 10 ⁸ cycles	1 x 10 ⁸ cycles	1 x 10 ⁸ cycles	IEEE P1222
Galloping Vibration (100 000 cycles @ 1 Hz)	1 x 10 ⁵ cycles	1 x 10 ⁵ cycles	1 x 10 ⁵ cycles	IEEE P1222
Hardware Load Transfer	100% UTS	100% UTS	100% UTS	Internal
Minimum Bend Radius (short term)	200mm	200mm	200mm	IEC 60794-1-E11
Crush Resistance (N) (via 100mm plates)	2000	2000	2000	IEC 60794-1-E3
Impact Resistance (25mm anvil/10 blows)	2 Nm impact	2 Nm impact	2 Nm impact	IEC 60794-1-E4
Temperature Performance (°C)	-20 to 70	-20 to 70	-20 to 70	IEC 60794-1-F1

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Sag and Tension Recommendations:

	Span Length	200m	250m	300m
Up to 24 Fibre cable (4 kN installation)	Nominal sag (m)	1.8	2.8	4.0
	Max Deflection (m)	5.2	7.4	9.9
36 / 48 Fibre count cable (4 kN installation)	Nominal sag (m)	2.1	3.3	4.8
	Max Deflection (m)	5.5	7.9	10.6
96 Fibre cable (4 kN installation)	Nominal sag (m)	2.2	3.4	4.5
	Max Deflection (m)	4.9	7.0	9.5

Complete your Project:

Please select the items you require and we will be in touch

Cables and Wires:

Indoor
Outdoor
General
Other
Let an ACTOM
Specialist Contact you

Lighting:

Indoor
Outdoor
General
Other
Let an ACTOM
Specialist Contact you

Transformers (Distribution):

Indoor
Outdoor
General
Other
Let an ACTOM
Specialist Contact you

Accessories:

Indoor
Outdoor
General
Other
Let an ACTOM
Specialist Contact you

Specific Information:

Address: 4 Branch Road, Germiston 1401, P.O. Box 678, Germiston 1400

For more Information on this Product Please Send us the Following

Product Information:

Product Name:

Quantity:

Project Name:

Date the Product is required:

Your Contact Information:

Name and Surname:

Company:

Email:

Phone Number:

Province:

Thank You

For having a Look at this Product

Please send this PDF back to us with all your Information

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