ELECTRICAL PRODUCTS

DATA CABLE-FIBRE OPTIC CABLE

Aerial Self Support 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 hellically in counter layers

Final Sheath Material:

Medium density polyethylene, UV stabilised with 2.5% evenly dispersed carbon black

Cable Marking:

CBI Telecom- no. of fibres - type of optical fibre - Fibre Optic Cable - length marking - unique identified cable number

Design and Test Criteria:

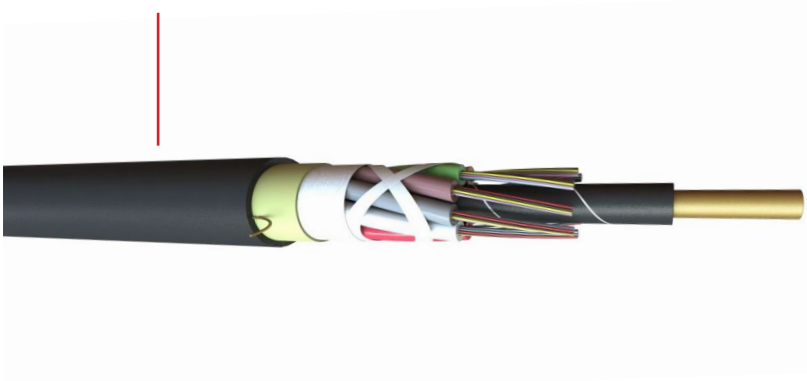
IEC / ISO 11801

IEC / 60793 and 60794

General Data:

Typical Applications:

Optimised For	Installation on telephone pole routes with a maximum span length of 100m. These cables can also be used in induct applications
Loose Tube Design	Fully water blocked, using dry water swellalbe materials for ease of installation
SZ Stranded Loose Tube Design	Allows for maximum flexibility while isolating the fibres from installation and environmental rigours and allowing easy mid-span access
Cable	Requires no bonding or grounding, is lightning immune and the medium density polythylene sheath is rugged, durable and easy to strip



Technical Information and Photographs from CBI electric

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

Email: aep.enquiries@actom.co.za Tel: +27 11 878 3050 Website: www.actomep.co.za

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Product Information:

Optical Characteristics		☐ MMF	☐ SMF	☐ SMF ULTRA
Specification	ISO / IEC11801	OM2/OM3/OM4	OS1/OS2	OS1/OS2
	ITU-T	G651.1	G652D	G657A.1
Fibre Core Diameter	(µm)	50	-	-
Mode Field Material (MFD	1310/1550nm (µm)	-	9.2 ± 0.4	9.2 ± 0.4
		-	10.4 ± 0.5	10.4 ± 0.5
Attenuation OM2/OM3/OM4	850nm (dB/km)	<3.0/2.5/2.5	-	-
	1300nm (dB/km)	<1.0/0.7/0.7	-	-
Attenuation (SMF)	1310nm (dB/km)	-	<0.35	<0.34
	1550nm (dB/km)	-	<0.22	<0.18
	1625nm (dB/km)	-	<0.25	<0.20
Bandwith OM2/OM3	850 (MHz.km)	700 / 1500	-	-
	1300 (MHz.km)	500 / 500	-	-
OM3/OM4	EMBc @ 850nm (MHz.km)	2000 / 4700	-	-
Dispersion	1310/1550nm (ps/km)	-	<3.5/18	<3.5/18
PMD_Q	(ps/√km)	-	0.06	0.06
Refractive Index		1.480 / 1.479	1.467 / 1.468	1.467 / 1.468
Macro-Bend Loss	Radius(mm)/turns/	37.5 / 100	-	-
	loss(dB)	0.5 / 0.5		
	@ 850 / 1300nm			
	Radius(mm)/turns/	-	25 / 100	15 / 10
	loss(dB)		- / 0.05	0.25 / 1.0
	@ 1550 / 1625nm			

CBI electric telecom cables

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Aerial Self Support Fibre Optic Cable

Product Descriptions, Dimensions and Weights:

Product Description	6-24 Fi	48 & 72 Fi	96 Fi	144 Fi	Test Method
No. Elements	4	6	8	12	-
Cable Diameter (mm)	9.4	12	14.5	16.4	-
Cable Weight (kg/km)	66	105	160	190	-
Maximum Installation Load (N) (Haul-in using cable sock)	1200	2000	3000	3500	IEC 60794-1-E1
Maximum Installation Load (N) (Aerial self support; 70m span with 0.5m sag)	780	1300	1900	2300	
Maximum Working Load (N) (Wind loading; 3 sec gust 125 km/h)	1350	1800	2500	3000	
Minimum Bend Radius (short term)	15 x D	15 x D	15 x D	15 x D	IEC 60794-1-11
Crush Resistance (N) (via 100mm plates)	2000	2000	2000	2000	IEC 60794-1-E3
Impact Resistance (25mm anvil/10 blows)	2 Nm impact	2 Nm impact	2 Nm impact	2 Nm impact	IEC 60794-1-E4
Temperature Performance (°C)	-10 to 70	-10 to 70	-10 to 70	-10 to 70	IEC 60794-1-14

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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:

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For more Information on this Product

Please Send us the Folowing

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

Scan the QR Code to visit our Website:

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