

DATA CABLE-FIBRE OPTIC CABLE

Mineshaft Fibre Optic Cable

Cable Description:

Fibre and Buffer Tube Colour Coding:

Fibre and Buffer tubes: TIA / EIA - 578

Fillers: Black (standard) or yellow

Armouring:

Poly laminated corrugated steel tape and galvanised steel wire

Final Sheath Material:

Low smoke zero halogen (LSZH) flame retardant bedding and final sheath

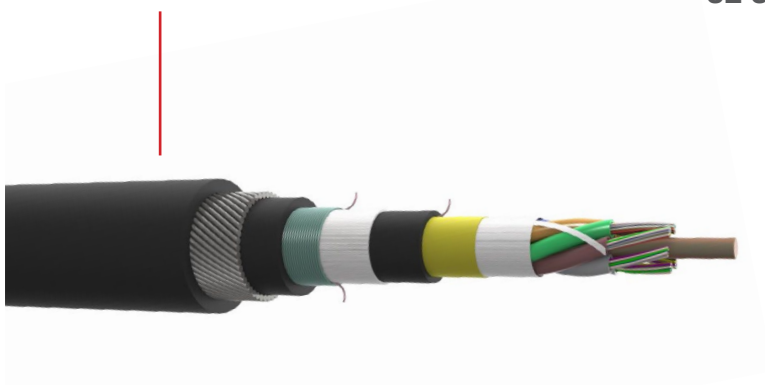
Cable Marking:

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:

Specifically Designed for Applications in extreme environments and rigorous safety requirements found in the mining industry. These cables can be deployed in horizontal shafts in both cable trays or cleated racks. Specific Design attention is given for vertical installations up to 1000m supported with mechanical cleating every 200m.

Rigorous Safety Requirement

Both bedding and final sheath material have low smoke, zero toxicity and fire retardant properties

Loose Tube Design

Fully water blocked, using dry water swellable materials for ease of installation

SZ Stranded Loose Tube Design

Allows for maximum flexibility while isolating the fibres from installation and environmental rigours

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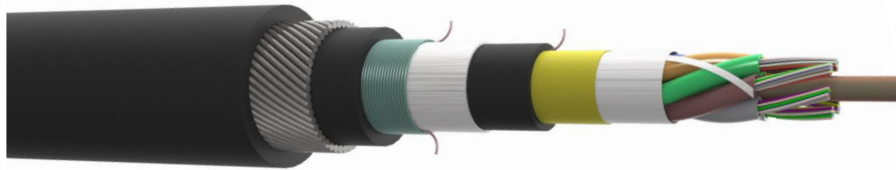
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Product Information:

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/ loss(dB)	37.5 / 100 0.5 / 0.5	-	-
	@ 850 / 1300nm			
	Radius(mm)/turns/ loss(dB)	-	25 / 100 - / 0.05	15 / 10 0.25 / 1.0
	@ 1550 / 1625nm			

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Product Descriptions, Dimensions and Weights:

Product Description	4-72 Fi	96 Fi	Test Method
No. Elements	6	8	-
Cable Diameter (mm)	20.2	20.5	-
Cable Weight (mm)	770	770	-
Maximum Installation Load (N)	9000	9000	IEC 60794-1-E1
Maximum Long Term Load (N)	4000	4000	IEC 60794-1-E1
Minimum Bend Radius (long term)	400mm	400mm	IEC 60794-1-E11
Crush Resistance (N) (via 100mm plates)	5000	5000	IEC 60794-1-E3
Impact Resistance (25mm anvil/10 blows)	2 Nm impact	2 Nm impact	IEC 60794-1-E4
Temperature Performance (°C)	-10 to 70	-10 to 70	IEC 60794-1-F1

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

Scan the QR Code to visit our Website:

