

## DATA CABLE-FIBRE OPTIC CABLE

### Corrugated Steel Tape (CST) Armoured Fibre Optic Cable (Dry Core)

#### 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 in a double sheath construction

##### Final Sheath Material:

Medium density polyethylene as standard.  
Low smoke zero halogen (LSZH) and flame retardant polyvinyl chloride (PVC) options available on request

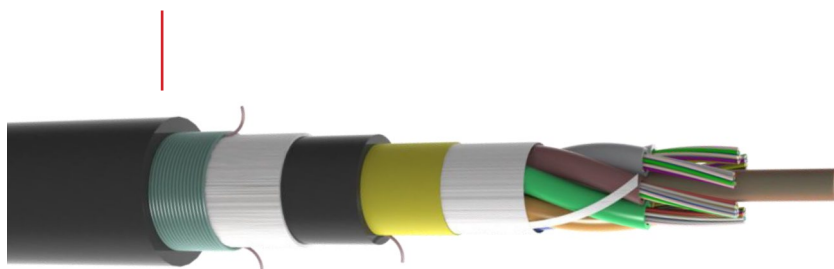
##### Cable Marking:

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:

**Ideally Suited** Installations in demanding environments requiring additional mechanical protection from rodents, direct trenching and industrial environments.

Suitable for installation in existing conduits, trunking, metallic trays and direct buried applications

**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 and allowing easy mid-span access

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#### Product Information:

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

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#### Product Descriptions, Dimensions and Weights:

Product Description	6-24 Fi	96 Fi	144 Fi	Test Method
No. Elements	6	8	12	
Cable Diameter (mm)	14.2	16.5	19.7	
Cable Weight (kg/km)	185	230	360	
Maximum Installation Load (N) (Haul-in using cable sock)	1800	1800	1800	IEC 60794-1-E1
Minimum Bend Radius (long term)	20 x D	20 x D	20 x D	IEC 60794-1-11
Crush Resistance (N) (via 100mm plates)	3000	3000	3000	IEC 60794-1-E3
Impact Resistance (25mm anvil/10 blows)	4 Nm impact	4 Nm impact	4 Nm impact	IEC 60794-1-E4
Temperature Performance (°C)	-20 to 70	-20 to 70	-20 to 70	IEC 60794-1-14

## 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:

