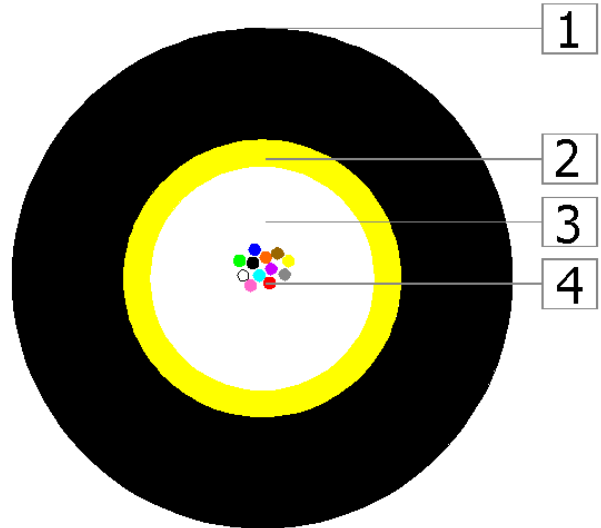


DATA SHEET FIBRE OPTIC CABLE

DATA SHEET : LCD-01

LOW COUNT DUCT CABLE (Non-metallic cable for the data industry)

CABLE DESCRIPTION	
1	Low HCL PVC
2	Aramid yarn peripheral strength member
3	PBT loose tube (Thixotropic gel filled)
4	Optical fibres



FIBRE COUNT	ELEMENTS PER LAYER
	Mono Tube
Up to 12	1 ELEMENT

Loose tubes contain up to 12 individually coloured fibres.
* Customized cables containing other fibre counts, fibre & element colours, are available on request.

PRODUCT FEATURES

- * The company's "indoor LAN " (Local Area Network) series are single loose tube cables specifically designed to be a multipurpose solution for indoor / outdoor applications
- * These cables are generally used for LAN backbone applications
- * A totally non-metallic construction ensures lightning immunity.
- * The fibres are located in a single loose tube at the centre of the cable and are individually coloured for ease of identification
- * The series is furnished with aramid strength members, which enable the cable to with stand high installation loads.
- * The strength members are applied contra-helically in two layers to eliminate stress.
- * The cables are small and lightweight and can tolerate small bend radius for ease of installation.
- * Particular care should be exercised when installing these cables into crowded ducts. Being so small, the cable runs the risk of " falling in " the intertices created by larger cables.
- * An outstanding feature is the sustained reliability over a wide temperature range. The optical fibres are "stress" free inside a loose tube while the cable contracts and expands with temperature.

DATA SHEET FIBRE OPTIC CABLE

DATA SHEET : LCD-01

TYPICAL PROPERTIES

Parameter	Property / Pass criteria	Test Method
	Fibre Count	
	Up to 12	
Number of elements	1	
Cable diameter (nominal)	6.67mm	
Cable weight (nominal)	46kg/km	
Maximum installation load	1000 N	IEC 60794-1-E1
Minimum bend radius	140mm	IEC 60794-1-11
Crush resistance (via 100 mm plates)	1000 N	IEC 60794-1-E3
Impact resistance (25mm anvil / 10 blows)	2 Nm Blows	IEC 60794-1-E4
Temperature performance	-10 to +70°C	IEC 60794-1-F1
Water penetration (3m cable, 1m head of water)	No leakage	IEC 60794-1-5B
Drip test (300 mm sample of loose tube @ 80 °C)	No leakage	IEC 60794-1-14

OPTICAL PROPERTIES (Alternative fibre types/properties are available on request)

FIBRE TYPE	SINGLE MODE(SM) 9/125 µm		MULTI MODE 50/125 µm	
	Specification	ITU-T G. 652D		ITU-T G. 651
Fibre core size	9.2 ± 0.4 µm (Mode field diameter @ 1310 nm) 10.3 ± 0.5 µm (Mode field diameter @ 1550 nm)		50 µm	
Cladding diameter	125 µm		125 µm	
Primary coating diameter	245 µm		245 µm	
Operating wavelength	1310 nm	1550 nm	850 nm	1300 nm
Max. Attenuation	0.37 dB/km	0.24 dB/km	2.8 dB/km	0.9 dB/km
Bandwidth	-	-	400 MHz.km	600 MHz.km
Max. Dispersion	3 ps/nm.km	18 ps/nm.km	-	-
PMD	0.2 ps/km ²		-	

DATA SHEET FIBRE OPTIC CABLE

DATA SHEET : LCD-01

ORDER DESCRIPTION & STANDARD LENGTHS		
FIBRE COUNT & FIBRE TYPE	ORDER DESCRIPTION	STANDARD DRUM LENGTHS
2 Fibre Single Mode	2F-SM-ILC-DC (T.B.A)	2000 m / 4000 m
4 Fibre Single Mode	4F-SM-ILC-DC (OF01049)	2000 m / 4000 m
6 Fibre Single Mode	6F-SM-ILC-DC (DF4250)	2000 m / 4000 m
8 Fibre Single Mode	8F-SM-ILC-DC (OF01083)	2000 m / 4000 m
10 Fibre Single Mode	10F-SM-ILC-DC (T.B.A)	2000 m / 4000 m
12 Fibre Single Mode	12F-SM-ILC-DC (OF01077)	2000 m / 4000 m
2 Fibre Multi Mode	2F-MM-ILC-DC (T.B.A)	2000 m / 4000 m
4 Fibre Multi Mode	4F-MM-ILC-DC (OF00889)	2000 m / 4000 m
6 Fibre Multi Mode	6F-MM-ILC-DC (OF00890)	2000 m / 4000 m
8 Fibre Multi Mode	8F-MM-ILC-DC (OF00891)	2000 m / 4000 m
10 Fibre Multi Mode	10F-MM-ILC-DC (T.B.A)	2000 m / 4000 m
12 Fibre Multi Mode	12F-MM-ILC-DC (OF01000)	2000 m / 4000 m

YOUR LINK TO THE WORLD OF COMMUNICATION

CBI Electric: Aberdare ATC Telecom Cables (Pty) Ltd
 PO Box 663, Brits, 0250, South Africa – Marthinus Ras Street, Industrial Sites, Brits
 Tel: +27 (0) 12 381 1400 – Fax: +27 (0) 12 250 3412 – sales@cbi-electric.com - www.cbi-electric.com

Page 3 of 3

All information given in this leaflet is correct to the best of our knowledge, but the company reserves the right to make alterations and amendments to the detailed specification at its discretion.