

DESIGN & DATA SPECIFICATION SHEET

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FIBRE PROPERTIES

CHARACTERISTICS	UNIT	VALUE
ATTENUATION @ 1310 nm	dB/km	≤ 0.38
@ 1383 nm		≤ 0.33 or less than 1310 nm
@ 1550 nm		≤ 0.25
CHROMATIC DISPERSION 1285 - 1330 nm	ps/nm.km	≤ 3.5
1550 nm		≤ 18.0
ZERO DISPERSION WAVELENGTH	nm	1300 to 1324
ZERO DISPERSION SLOPE	ps/nm ² .km	≤ 0.092
POLARIZATION MODE DISPERSION	ps/ $\sqrt{\text{km}}$	≤ 0.20
CABLED CUT OFF WAVELENGTH	nm	≤ 1260
MODE FIELD DIAMETER at 1310 nm	um	8.6 ± 0.4
CORE -CLAD CONCENTRICITY ERROR	um	≤ 0.5
CLADDING NON CIRCULARITY	%	≤ 1.0
CLADDING DIAMETER	um	125 ± 0.7
COATING DIAMETER	um	245 ± 5

CABLE PROPERTIES

NO. OF FIBRES	2	
COLOUR OF FIBRE	BLUE, ORANGE	
TYPE OF FIBRE	SM G657 A	
STRENGTH MEMBER	ARAMID REINFORCED PLASTIC ROD – 2 Nos. (0.5 mm) STEEL WIRE – 1 No. (1.2 mm)	
SHEATH MATERIAL	LOW SMOKE ZERO HALOGEN (LSZH)	
SHEATH COLOUR	BLACK	
CABLE DIMENSIONS - HEIGHT	2.0 ± 0.20 mm	
WIDTH	5.2 ± 0.20 mm	
CABLE WEIGHT	22 ± 2 Kg/Km	
TENSILE STRENGTH - INSTALLATION	Newton	600
- OPERATING		300
MIN. BENDING RADIUS TEMPORARY	mm	20
(Without Messenger Wire) PERMANENT		40
CRUSH RESISTANCE	Newton/10cm	500
TEMPERATURE PERFORMANCE OPERATING / INSTALLATION	°C	- 20 to + 60
PACKING LENGTH	Km	$1.0 / 2.0 \pm 10 \%$
PRINTING ON CABLE (WHITE INKJET)	AS PER CUSTOMER REQUIREMENT	

CROSS SECTIONAL VIEW:

