



OS1 Internal External Loose Tube



Up to 12 fibres

Fibre Properties		
Characteristics	Unit	Value
ATTENUATION @ 1310 nm @ 1550 nm	dB/km	≤ 0.38 Max & ≤ 0.35 Average ≤ 0.25 Max & ≤ 0.22 Average
CHROMATIC DISPERSION 1285-1330 nm At 1550 nm	ps/nm.km	≤ 3.5 ≤ 18.0
ZERO DISPERSION WAVELENGTH	nm	1300 to 1324
ZERO DISPERSION SLOPE	ps/nm ² .km	≤ 0.092
CUT OFF WAVELENGTH	nm	≤ 1320
POLARISATION MODE DISPERSION	ps/root km	≤ 0.2
MODE FIELD DIAMETER at 1310 nm	um	9.3 ± 0.5
CORE- CLAD CONCENTRICITY ERROR	um	≤ 0.8
CLADDING NON CIRCULARITY	%	≤ 1.0
CLADDING DIAMETER	um	125 ± 1.0
COATING DIAMETER	um	245 ± 10

Cable Cross Section

CROSS SECTIONAL VIEW :

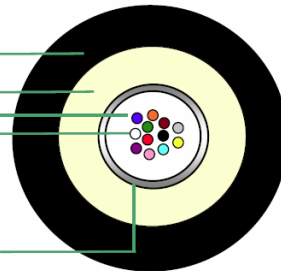
OUTER SHEATH (LSZH) ←

GLASS YARN REINFORCEMENT ←

FILLING JELLY ←

OPTICAL FIBRE ←

LOOSE TUBE WITH FIBRES ←



Mechanical & Environmental Properties

MAX. OPERATING TENSION -- LONG TERM	:	500 Newton
MAX INSTALLATION TENSION -- SHORT TERM	:	1000 Newton
CRUSH RESISTANCE	:	1000 Newton/10 cm
MINIMUM BENDING RADIUS---TEMPORARY	:	61 mm
PERMENANT	:	122 mm
MAX. OPERATING/ INSTALLATION TEMPERATURE	:	- 20 °C to + 60 °C

Physical & Dimensions Properties	4F	8F	12F
NO. OF FIBRES	SM G652D		
TYPE OF FIBRE	GLASS YARN REINFORCEMENT		
STRENGTH MEMBER	BLUE, ORANGE, GREEN & BROWN	BLUE, ORANGE, GREEN, BROWN, SLATE, WHITE, RED & WHITE	BLUE, ORANGE, GREEN, BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, PINK & AQUA
COLOUR OF FIBRE	LSZH		
OUTER SHEATH MATERIAL	≥1.0 mm		
OUTER SHEATH THICKNESS	6.1±0.3 mm		
OUTER CABLE DIAMETER	44±5 Kg/Km		
CABLE WEIGHT	AS PER CUSTOMER REQUIREMENT		
PRINTING ON CABLE	2,3,4±10% KMS		