

12 F SM G652D ARMOURED OPTICAL FIBRE CABLE

1. FIBRE PROPERTIES

A. FIBRE TYPE	:	Single Mode G652 D
B. ATTENUATION @ 1310 nm	:	≤ 0.35 dB/Km
@ 1550 nm	:	≤ 0.22 dB/Km
@ 1625 nm	:	≤ 0.26 dB/km
C. CABLE CUT-OFF WAVELENGTH	:	≤ 1260 nm
D. MODE FIELD DIAMETER @ 1310 nm	:	9.2 ± 0.5µm
E. CLAD DIAMETER	:	125 ± 0.7 µm
F. CORE CLAD CONCENTRICITY ERROR	:	≤ 0.60 µm
G. CLAD NON-CIRCULARITY	:	≤ 1%
H. COATING DIAMETER	:	245 ± 10 µm
I. CHROMATIC DISPERSION	:	
Between 1270-1340 nm	:	≤ 5.3 ps/nm.km
1285-1330 nm	:	≤ 3.5 ps/nm.km
@ 1550 nm	:	≤ 18.0 ps/nm.km
J. ZERO DISPERSION WAVELENGTH	:	1300-1324 nm
K. ZERO DISPERSION SLOPE	:	≤ 0.092 ps/nm ² .Km
L. POLARISATION MODE DISPERSION	:	≤ 0.2 ps/root km

2. MECHANICAL & ENVIRONMENTAL PROPERTIES

A. MAX. OPERATING TENSION	:	1500 Newton
MAX INSTALLATION TENSION	:	2700 Newton
B. CRUSH RESISTANCE	:	4000 Newton/10 cm
C. MINIMUM BENDING RADIUS(INSATALLTION/SERVICE)	:	20 x D / 10 x D
D. MAX. OPERATING/ INSTALLATION TEMPERATURE	:	- 30 °C to + 70 °C

3. PHYSICAL & DIMENSIONS PROPERTIES

NO. OF FIBRES	12F
FIBRE COLOUR IN LOOSE TUBE	BLUE, ORANGE, GREEN, BROWN
LOOSE TUBE COLUR & SEQUENCE	BLUE, ORANGE, GREEN, DUMMY-1,DUMMY-2 & DUMMY-3
CENTRAL STRENGTH MEMBER	FRP ROD 2.5 + 0.1 mm
CORE WRAPPING	WATER SWEALLABLE TAPE
OUTER SHEATH THICKNESS	1.5 mm Nominal
ARMOURING	CORRUGATED STEEL TAPE ARMOUR
CABLE DIAMETER	11.8 ± 0.5 mm
WEIGHT OF CABLE	120 ± 12 Kg/Km
PRINTING ON CABLE	AS PER CUSTOMER REQUIREMENT
STANDARD LENGTH	2/3/4 Km ± 10% and 10% Non standard length more than 500 meters

CONSTRUCTION OF CABLE

OUTER SHEATH (H.D.P.E.)
W.S. TAPE
W.S. YARN
F.R.P. ROD
LOOSE TUBE WITH FIBRES
CORRUGATED STEEL TAPE ARMOUR
RIP CORD

