

## 96 F SM G652D ARMOURED OPTICAL FIBRE CABLE

1. FIBRE PROPERTIES	
A. FIBRE TYPE	: Single Mode G652 D
B. ATTENUATION @ 1310 nm	: $\leq 0.35$ dB/Km
@ 1550 nm	: $\leq 0.22$ dB/Km
C. CABLE CUT-OFF WAVELENGTH	: $\leq 1260$ nm
D. MODE FIELD DIAMETER @ 1310 nm	: $9.2 \pm 0.5$ um
E. CLAD DIAMETER	: $125 \pm 0.7$ um
F. CORE CLAD CONCENTRICITY ERROR	: $\leq 0.60$ um
G. CLAD NON-CIRCULARITY	: $\leq 1\%$
H. COATING DIAMETER	: $245 \pm 10$ um
I. CHROMATIC DISPERSION	
Between 1270-1340 nm	: $\leq 5.3$ ps/nm.km
1285-1330 nm	: $\leq 3.5$ ps/nm.km
@ 1550 nm	: $\leq 18.0$ ps/nm.km
J. ZERO DISPERSION WAVELENGTH	: 1300-1324 nm
K. ZERO DISPERSION SLOPE	: $\leq 0.092$ ps/nm <sup>2</sup> .Km
L. POLARISATION MODE DISPERSION	: $\leq 0.2$ ps/root km
2. MECHANICAL & ENVIRONMENTAL PROPERTIES	
A. MAX. OPERATING TENSION	: 1500 Newton
MAX INSTALLATION TENSION	: 2700 Newton
B. CRUSH RESISTANCE	: 4000 Newton/100 mm
C. MINIMUM BENDING RADIUS	: 220 mm
D. MAX. OPERATING/ INSTALLATION TEMPERATURE	: - 30 °C to + 70 °C
3. PHYSICAL & DIMENSIONS PROPERTIES	
NO. OF FIBRES	96F
FIBRE COLOUR IN LOOSE TUBE	BLUE, ORANGE, GREEN, BROWN, GREY, WHITE, RED, BLACK, YELLOW, VIOLET, PINK & AQUA
LOOSE TUBE COLUR & SEQUENCE	BLUE, ORANGE, GREEN, BROWN, GREY, WHITE, RED & BLACK
DIAMETER OF FRP ROD	3.5 mm Nominal
DIAMETER OF LOOSE TUBE	1.9 mm Nominal
OUTER SHEATH THICKNESS	1.5 mm Nominal
ARMOURING	CORRUGATED STEEL TAPE ARMOUR
CABLE DIAMETER	$12.5 \pm 0.8$ mm
WEIGHT OF CABLE	$140 \pm 15$ Kg/Km
PRINTING ON CABLE	AS PER CUSTOMER REQUIREMENT
STANDARD LENGTH	$2$ Km $\pm 10\%$ & 10% non standard length more than 500 meters

### CONSTRUCTION OF CABLE

OUTER SHEATH (HDPE)
WATER SWELLABLE TAPE
WATER SWELLABLE YARNS
F.R.P. ROD
CST ARMOUR
LOOSE TUBE WITH FIBRES
LOOSE TUBE WITH FIBRES

