

AKSH OPTIFIBRE LIMITED

PART No.: A-12/SM/UT(2F)-MFP-B7.0

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CABLE TYPE: 12F SM G652 D FLAT TYPE AERIAL OPTICAL FIBRE CABLE

DESIGN & DATA SPECIFICATION SHEET

**PREPARED BY:
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1. FIBRE PROPERTIES

ATTENUATION @ 1310 nm	dB/km	< 0.38 Max & < 0.35 Average
@ 1550 nm		< 0.25 Max & < 0.22 Average
CHROMATIC DISPERSION 1285-1330 nm	ps/nm.km	< 3.5
At 1550 nm		< 18.0
ZERO DISPERSION WAVELENGTH	nm	1300 to 1324
ZERO DISPERSION SLOPE	ps/nm ² .km	< 0.092
CUT OFF WAVELENGTH	nm	< 1260
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

2. MECHANICAL & ENVIRONMENTAL PROPERTIES

A. MAX. OPERATING TENSION	:	500 Newton
MAX INSTALLATION TENSION	:	1000 Newton
B. CRUSH RESISTANCE	:	2000 Newton/10 cm
C. MINIMUM BENDING RADIUS---	:	100 mm
TEMPERORY	:	PERMENANT
	:	200 mm
D. MAX. OPERATING/ INSTALLATION TEMPERATURE :		- 30 °C to + 70 °C

3. PHYSICAL & DIMENSIONS PROPERTIES

NO. OF FIBRES	12F
COLOUR OF FIBRE	BLUE, ORANGE, GREEN, BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, PINK & AQUA
NOMINAL DIMENSIONS	
A) WIDTH	7.0 ± 0.3 mm
B) HEIGHT	3.6 ± 0.3 mm
DIAMETER OF EAA COATED F.R.P. ROD (2 nos.)	1.8 + 0.05 mm
DIAMETER OF LOOSE TUBE	1.6 mm Nominal
SHEATH THICKNESS	0.90 mm Nominal
WEIGHT OF CABLE	30 ± 3 Kg/Km
PRINTING ON CABLE	AKSH 12F SM G652D FLAT AERIAL OFC MMYYYY XXXX METRE
STANDARD LENGTH	2,3,4 ± 10% KMS

CONSTRUCTION OF CABLE:

