

**AKSH TECHNOLOGIES LIMITED**

PART No.: O-2/SM/(2F)-MFZ -W 3.1

DATE OF ISSUE: 30.11.2011

PAGE : 01 of 01

CABLE TYPE: 2F G657A SM FIBRE

DROPLITE CABLE

**DESIGN & DATA SPECIFICATION SHEET**

PREPARED BY  
RAJAN KUMAR

**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 <sup>2</sup> .km	≤ 0.092
POLARIZATION MODE DISPERSION	ps/√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 G657A	
STRENGTH MEMBER	FIBRE REINFORCED PLASTIC ROD -2 Nos.	
SHEATH MATERIAL	LOW SMOKE ZERO HALOGEN (LSZH)	
SHEATH COLOUR	WHITE	
CABLE DIMENSIONS-	HEIGHT	2.0 ± 0.10 mm
	WIDTH	3.1 ± 0.10 mm
CABLE WEIGHT	9.7 ± 1.0 Kg/Km	
TENSILE STRENGTH - INSTALLATION	Newton	100
- OPERATING		50
MIN. BENDING RADIUS	mm	20
CRUSH RESISTANCE	Newton/10cm	500
TEMPERATURE PERFORMANCE	°C	- 30 to + 60
OPERATING / INSTALLATION		
PACKING LENGTH	Km	1.0 /2.0 + 10 %
PRINTING ON CABLE (BLACK INKJET)	AS PER CUSTOMER REQUIREMENT	

**CROSS SECTIONAL VIEW:**

