

AKSH TECHNOLOGIES LIMITED

PART No.: A-6/SM/UT(2F&A)-MFP-B7.9

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DESIGN & DATA SPECIFICATION SHEET

CABLE TYPE: 6F SM DIELECTRIC ADSS O.F. CABLE

PREPARED BY:
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1. FIBRE PROPERTIES:

CHARACTERISTICS	UNIT	VALUE
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	≤ 1320
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 -- LONG TERM	:	900 Newton
MAX INSTALLATION TENSION -- SHORT TERM	:	1800 Newton
B. CRUSH RESISTANCE	:	2000 Newton/100 mm
C. MINIMUM BENDING RADIUS---TEMPORARY	:	79 mm
PERMENANT	:	158 mm
D. MAX. OPERATING/ INSTALLATION TEMPERATURE	:	- 30 °C to + 70 °C

3. PHYSICAL & DIMENSIONS PROPERTIES

NO. OF FIBRES	6F
TYPE OF FIBRE	SM G652 D
LOOSE TUBE DIAMETER	2.8 mm Nominal
STRENGTH MEMBER	FRP & ARAMID YARN REINFORCEMENT
FRP DIAMETER (2 Nos.)	1.0 mm Nominal
COLOUR OF FIBRE	BLUE, ORANGE, GREEN, BROWN, SLATE , WHITE
OUTER SHEATH MATERIAL	H.D.P.E.
OUTER SHEATH THICKNESS	2.0 mm NOMINAL
OUTER CABLE DIAMETER	7.9 ± 0.5 mm
CABLE WEIGHT	49 ± 5 Kg/km
PRINTING ON CABLE	AS PER CUSTOMER REQUIREMENT
STANDARD LENGTH	2,3,4 KM + 10%

CROSS SECTIONAL VIEW:

F.R.P. ROD
OUTER SHEATH (H.D.P.E)
RIP CORD
ARAMID YARN
LOOSE TUBE WITH FIBRES

