

AKSH TECHNOLOGIES LIMITED

DESIGN & DATA SPECIFICATION SHEET

PART No.: D-2F/SM/UT(K)-MFN-O1.7
D-4F/SM/UT(K)-MFN-O1.9

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CABLE TYPE: 2,4F SM AIR BLOWN MICRO CABLE

PREPARED BY
VIKAS KHANNA

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	≤ 1320
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	:	20 Newton
MAX INSTALLATION TENSION	:	40 Newton
B. CRUSH RESISTANCE	:	100 Newton/100mm
C. MINIMUM BENDING RADIUS---TEMPERORY	:	20 mm
PERMENANT	:	40mm
D. MAX. OPERATING/ INSTALLATION TEMPERATURE	:	- 30 °C to + 70 °C

3. PHYSICAL & DIMENSIONS PROPERTIES

NO. OF FIBRES	2 F	4F
COLOUR OF FIBRE	BLUE & ORANGE	BLUE, ORANGE, GREEN & BROWN
CABLE DIAMETER	1.7 ± 0.1 mm	1.9 ± 0.1 mm
DIAMETER OF K.R.P. ROD	0.40 ± 0.05 mm	0.40 ± 0.05 mm
JACKET MATERIAL	NYLON (12)	
JACKET THICKNESS	0.2 mm Nominal	
WEIGHT OF CABLE	2.2 ± 0.2 Kg/Km	2.7 ± 0.2 Kg/Km
PRINTING ON CABLE	AKSH SM NO. OF FIBRE O.F. CABLE 2012 SLM in meters	
STANDARD LENGTH	$2,3,4 \pm 10\%$ Kms OR AS PER PURCHASE ORDER	

CROSS SECTIONAL VIEW:

