



**AKSH OPTIFIBRE LIMITED**

**PART No.:** D-2F/SM/UT(K)-MFN-01.7  
 D-4F/SM/UT(K)-MFN-01.9  
**REVISION NO :** 00  
**DATE OF ISSUE:**  
**PAGE :** 01 of 01  
**CABLE TYPE:** 2,4F SM AIR BLOWN MICRO CABLE

**DESIGN & DATA SPECIFICATION SHEET**

**PREPARED BY**  
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**1. FIBRE PROPERTIES**

<b>FIBRE TYPE</b>		G657A
<b>ATTENUATION @ 1310 nm</b>	dB/km	≤ 0.36
<b>@ 1550 nm</b>		≤ 0.25
<b>CHROMATIC DISPERSION 1285 - 1330 nm</b>	ps/nm.km	≤ 3.5
<b>1550 nm</b>		≤ 18.0
<b>ZERO DISPERSION WAVELENGTH</b>	nm	1300 to 1324
<b>ZERO DISPERSION SLOPE</b>	ps/nm <sup>2</sup> .km	≤ 0.092
<b>POLARIZATION MODE DISPERSION</b>	ps/√km	≤ 0.20
<b>CABLED CUT OFF WAVELENGTH</b>	nm	≤ 1260
<b>MODE FIELD DIAMETER at 1310 nm</b>	um	8.6 ± 0.4
<b>CORE -CLAD CONCENTRICITY ERROR</b>	um	≤ 0.5
<b>CLADDING NON CIRCULARITY</b>	%	≤ 1.0
<b>CLADDING DIAMETER</b>	um	125 ± 0.7
<b>COATING DIAMETER</b>	um	245 ± 5

**2. MECHANICAL & ENVIRONMENTAL PROPERTIES**

<b>A. MAX OPERATING TENSION</b>	:	20 Newton
<b>MAX INSTALLATION TENSION</b>	:	40 Newton
<b>B. CRUSH RESISTANCE</b>	:	100 Newton/100mm
<b>C. MINIMUM BENDING RADIUS</b>	:	60 mm
<b>D. MAX. OPERATING/ INSTALLATION TEMPERATURE</b>	:	- 30 °C to + 70 °C

**3. PHYSICAL & DIMENSIONS PROPERTIES**

NO. OF FIBRES	2 F	4F
<b>COLOUR OF FIBRE</b>	BLUE & ORANGE	BLUE, ORANGE, GREEN & BROWN
<b>CABLE DIAMETER</b>	1.7 ± 0.1 mm	1.9 ± 0.1 mm
<b>DIAMETER OF K.R.P. ROD</b>	0.40 ± 0.05 mm	0.40 ± 0.05 mm
<b>JACKET MATERIAL</b>	NYLON (12)	
<b>JACKET THICKNESS</b>	0.2 mm Nominal	
<b>WEIGHT OF CABLE</b>	2.2 ± 0.2 Kg/Km	2.7 ± 0.2 Kg/Km
<b>PRINTING ON CABLE</b>	AS PER CUSTOMER REQUIREMENT	
<b>STANDARD LENGTH</b>	2,3,4 ± 10% Kms OR AS PER PURCHASE ORDER	

**CROSS SECTIONAL VIEW:**

