



**AKSH OPTIFIBRE LIMITED**

<b>Part No.</b>	B-4/SM/UT (2SW&G)-PCCSTP-B 9.60 B-8/SM/UT (2SW&G)-PCCSTP-B 9.60 B-12/SM/UT (2SW&G)-PCCSTP-B 9.60
<b>Cable Type</b>	4F, 8F, 12F SM UNITUBE ARMORED DOUBLE SHEATH OFC
<b>Revision</b>	00
<b>Date</b>	

**DESIGN & DATA SPECIFICATION SHEET**

Prepared By

**SM G652 D FIBRE PROPERTIES**

S. No	CHARACTERISTICS	UOM	SM G652 D	
			IN FIBRE	IN CABLE
1	ATTENUATION	@ 1310 nm	≤ 0.34	≤ 0.35
			@ 1550 nm	≤ 0.20
2	ZERO DISPERSION WAVELENGTH	nm	1302 to 1324	--
3	CHROMATIC DISPERSION	@ 1285-1330 nm	≤ 3.5	--
		@ 1550 nm	≤ 18	--
4	ZERO DISPERSION SLOPE	ps/nm <sup>2</sup> .km	≤ 0.092	--
5	CABLE CUT OFF WAVELENGTH	nm		≤ 1260
6	FIBRE CUT-OFF WAVELENGTH	nm	≤ 1320	--
7	POLARISATION MODE DISPERSION	ps/root km	≤ 0.20	≤ 0.30
8	MODE FIELD DIAMETER at 1310 nm	um	9.1 ± 0.4	--
9	MODE FIELD DIAMETER at 1550 nm	um	10.4 ± 0.4	--
10	CORE-CLAD CONCENTRICITY ERROR	um	≤ 0.6	--
11	CLADDING NON CIRCULARITY	%	≤ 1	--
12	CLADDING DIAMETER	um	125 ± 0.70	--
13	COATING DIAMETER	um	245 ± 10	--

**PHYSICAL & DIMENSIONS PROPERTIES**

S. No	CHARACTERISTICS	VALUE		
1	FIBRE TYPE	SM G652 D		
2	NO. OF FIBRE	4F	8F	12F
3	LOOSE TUBE DIAMETER	3.00 ± 0.20 mm		
4	STRENGTH MEMBERS	GLASS YARN, 2NOS STEEL ROD & ECCS TAPE		
5	COLOR OF FIBRE	RED, GREEN, BLUE & YELLOW	RED, GREEN, BLUE, YELLOW, GREY, VIOLET, BROWN & ORANGE	RED, GREEN, BLUE, YELLOW, GREY, VIOLET, BROWN, ORANGE, WHITE, PINK, BLACK & TORQUOISE
6	INNER SHEATH MATERIAL	HDPE - BLACK		
7	INNER SHEATH THICKNESS	0.90 mm NOMINAL		
8	OUTER SHEATH MATERIAL	HDPE - BLACK		
9	OUTER SHEATH THICKNESS	1.60 mm NOMINAL		
10	OUTER CABLE DIAMETER	9.40 ± 0.50 mm		
11	CABLE WEIGHT	97 ± 10 Kg/Km		
12	PRINTING ON CABLE	AS PER CUSTOMER SPECIFICATIONS		
13	STANDARD LENGTH	4 ± 5% km		



**AKSH OPTIFIBRE LIMITED**

<b>Part No.</b>	B-4/SM/UT (2SW&G)-PCCSTP-B 9.60 B-8/SM/UT (2SW&G)-PCCSTP-B 9.60 B-12/SM/UT (2SW&G)-PCCSTP-B 9.60
<b>Cable Type</b>	4F, 8F, 12F SM UNITUBE ARMORED DOUBLE SHEATH OFC
<b>Revision</b>	00
<b>Date</b>	

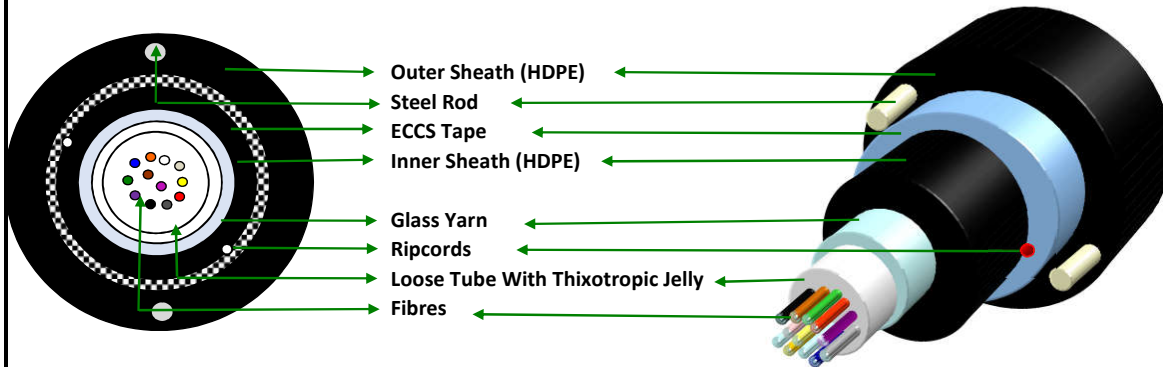
**DESIGN & DATA SPECIFICATION SHEET**

Prepared By

**MECHANICAL & ENVIRONMENTAL PROPERTIES**

S. No	CHARACTERISTICS	VALUE
1	Max. Operating Tension	2000 N
2	Max. Installation Tension	4000 N
3	Crush Resistance	4000 N/ 10 cm
4	Minimum Bending Radius	20 D mm
5	Max. Operating/ Installation Temperature	-40°C to +70°C

**CONSTRUCTIONAL DETAILS**



**This figure is only for illustrative purpose. Typically not to Scale.**