

**AKSH OPTIFIBRE LIMITED**

PART No.:O-1/SM/(2W&SW)-Z-B5.2  
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 CABLE TYPE: 1F G657 A SM DROPLITE  
 OUTDOOR CABLE  
 CUSTOMER:

**DESIGN & DATA SPECIFICATION SHEET**

PREPARED BY:  
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**FIBRE PROPERTIES**

CHARACTERISTICS	UNIT	VALUE
ATTENUATION @ 1310 nm @ 1383 nm @ 1550 nm	dB/km	$\leq 0.36$ $\leq 0.33$ or less than 1310 nm
CHROMATIC DISPERSION 1310 nm 1550 nm	ps/nm.km	$\leq 0.22$ $\leq 3.5$ $\leq 18.0$
ZERO DISPERSION WAVELENGTH	nm	1300 to 1324
ZERO DISPERSION SLOPE	ps/nm <sup>2</sup> .km	$\leq 0.092$
POLARIZATION MODE DISPERSION	ps/ $\sqrt$ km	$\leq 0.20$
CABLED CUT OFF WAVELENGTH	nm	$\leq 1260$
MODE FIELD DIAMETER at 1310 nm	um	$8.6 \pm 0.4$
CORE -CLAD CONCENTRICITY ERROR	um	$\leq 0.6$
CLADDING NON CIRCULARITY	%	$\leq 1.0$
CLADDING DIAMETER	um	$125 \pm 1.0$
COATING DIAMETER	um	$245 \pm 10$

**CABLE PROPERTIES**

NO. OF FIBRES	1	
COLOUR OF FIBRE	RED	
TYPE OF FIBRE	SM G657 A	
STRENGTH MEMBER	STEEL WIRE – 2 Nos. (0.4 mm) STEEL WIRE – 1 No. (1.0 mm)	
SHEATH MATERIAL	LSZH	
SHEATH COLOUR	BLACK	
CABLE DIMENSIONS - HEIGHT WIDTH	$2.0 \pm 0.20$ mm $5.2 \pm 0.20$ mm	
TENSILE STRENGTH	Newton	660
CRUSH RESISTANCE	N/100 mm	100
CABLE MINIMUM BENDING RADIUS	10 X D	
TEMPERATURE PERFORMANCE OPERATING / STORAGE	°C	- 10 to +70
PACKING LENGTH	m	$1000 \pm 5 \%$
PRINTING ON CABLE (WHITE INKJET)	AS PER CUSTOMER REQUIREMENT	

**CROSS SECTIONAL VIEW:**

