AKSH OPTIFIBRE LIMITED	PART NO.: A-12/SM/MTY (F&A)-MFP-B11.0 DATE OF ISSUE: 07.03.2016 CABLE TYPE: 12F SM G652D ADSS O.F. CABLE	
DESIGN & DATA SPECIFICATION SHEET	PREPARED BY: RAJEEV	SPAN LENGTH 80 METRE

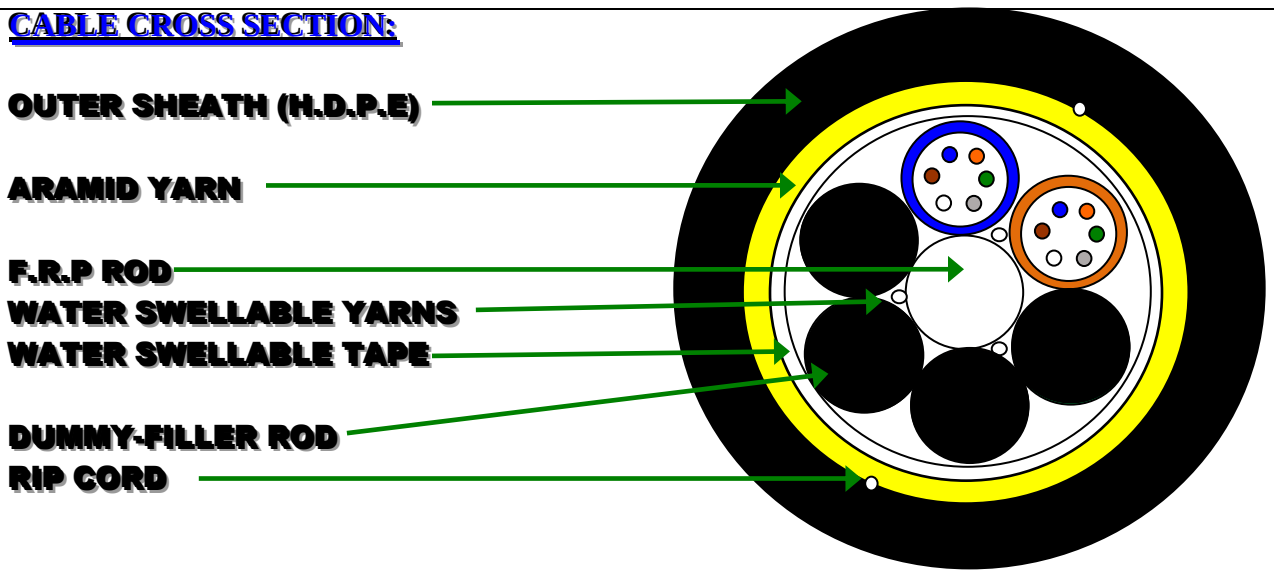
1. FIBRE PROPERTIES:

CHARACTERISTICS	UNIT	VALUE
ATTENUATION @ 1310 nm	dB/km	≤ 0.36 Max & ≤ 0.34 Average
@ 1550 nm		≤ 0.24 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/nm2.km	≤ 0.092
CUT OFF WAVELENGTH	nm	≤ 1260
POLARISARION 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. TENSION – OPERATIONAL / INSTALLATION		:	1000 / 2200 Newton
B. CRUSH RESISTANCE		:	2200 Newton/100 mm
C. BENDING RADIUS:	SHORT TERM	:	10 * Cable Outer Diameter mm
	LONG TERM	:	20 * Cable Outer Diameter mm
D. MAX. OPERATING/ INSTALLATION TEMPERATURE		:	- 30 °C to + 70 °C

3. PHYSICAL & DIMENSIONS PROPERTIES

NO. OF FIBRES	12F
NO OF TUBES/FILLERS	4/2
TYPE OF FIBRE	SM G652 D
STRENGTH MEMBER	F.R.P ROD & ARAMID YARN REINFORCEMENT
SEQUENCE OF TUBE	BLUE, ORANGE, FILLER-1, FILLER-2 & FILLER-3
COLOUR OF FIBRE	BLUE, ORANGE, GREEN, BROWN, SLATE & WHITE
OUTER SHEATH MATERIAL	H.D.P.E.
OUTER CABLE DIAMETER	11.0 ± 0.5 mm
CABLE WEIGHT	90 ± 10 Kg/Km
PRINTING ON CABLE	AS PER CUSTOMER REQUIREMENT
STANDARD LENGTH	2.0/3.0/4.0 ± 5% KMS

CABLE CROSS SECTION: