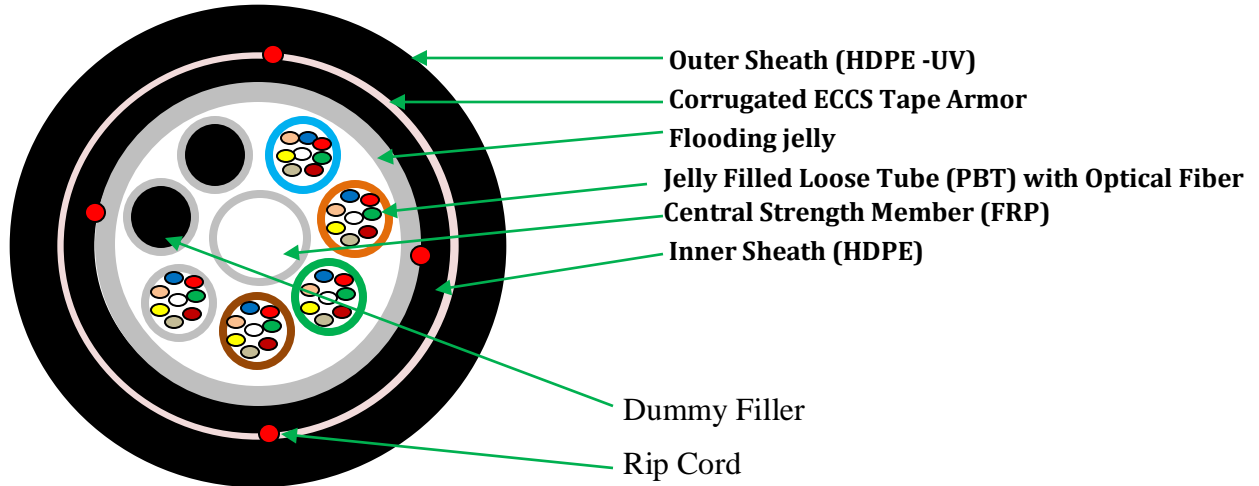


4/6/12F/24F/48F/96F SM MT DOUBLE SHEATH ARMoured OFC



PHYSICAL CHARACTERISTICS

Fibre Type	Single Mode G.652D					
Fibre Count	4F	6F	12F	24F	48F	96F
No. of Fibre per tube	4	6	6	6	12	12
No. of Tubes	1	1	2	4	4	8
No. of Fillers	4	4	4	2	2	0
Tube Dia. (mm)	1.9 ± 0.1	1.9 ± 0.1	1.9 ± 0.1	1.9 ± 0.1	1.9 ± 0.1	2.1 ± 0.1
Cable Dia. (mm)	15.5 ± 0.5	15.5 ± 0.5	15.5 ± 0.5	15.5 ± 0.5	15.5 ± 0.5	17.0 ± 0.5
Weight (kg/km)	215 ± 10%	215 ± 10%	215 ± 10%	215 ± 10%	215 ± 10%	270 ± 10%
Central Strength Member (mm)	FRP(2.0mm ± 0.1)					
Core Type	Wet Core with Flooding jelly					
Inner Sheath Material	HDPE-Black					
Inner Sheath Thickness (mm)	1.5 (nominal)					
Armoring	Corrugated ECCS Tape					
Outer Sheath Material	HDPE-BLACK (UV/AT/AR)					
Outer Sheath thickness (mm)	2.5 (nominal)					
Ripcord	Yes, 2 below armor, 1 below inner sheath					

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Max. Tensile Strength (N) (Long Term/Short Term)	1000/2000
Crush Resistance (N/100 mm)	2000
Impact Strength (N. m)	25
Torsion	±180°, 2 m cable, 75 N Load
Repeated Bend (@5kg load)	30 cycles
Bending Radius	20 x D (Dynamic) 10 x D (Static)
Temperature Range	-30°C to +70°C (Operation) -20°C to +60°C (Storage)

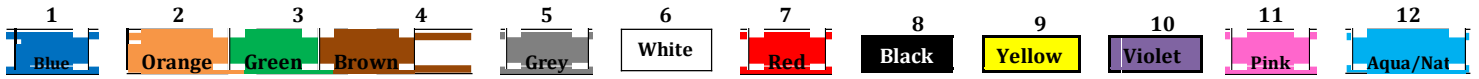
TRANSMISSION CHARACTERISTICS (CABLED FIBRE)

Attenuation (dB/km)	@ 1310 nm: ≤ 0.36 @ 1550 nm: ≤ 0.22
Water peak attenuation @ 1383 nm (dB/km)	≤ attn. at 1310 nm
Chromatic Dispersion (ps/nm.km)	@ 1288-1339 nm: ≤ 3.5 @ 1270-1340 nm: ≤ 5.3 @ 1550 nm: ≤ 18.0
PMD @ 1310 and 1550 nm Individual fibre (ps/√km)	≤ 0.2
Zero Dispersion Slope (ps/nm ² .km)	≤ 0.092
Zero Dispersion wavelength (nm)	1300 to 1324 nm
Cut off Wavelength (nm) on 2m fiber	≤ 1320
MFD (μm)	9.2 ± 0.2 (@1310 nm)
Clad dia. (μm)	125 ± 1.0
Clad non-circularity (%)	≤ 1
Core-Clad concentricity error (μm)	≤ 0.6
Coating dia. (μm)	245 ± 10
Coating-Cladding concentricity (μm)	≤ 12.0

LOOSE TUBE COLOUR CODE



FIBRE COLOUR CODE



PRINTING, PACKING AND LENGTHS

Printing Message: Bhutan Telecom <Fibre Type> <Fibre Count> <Cable Type> <Type of Cable> <MONTH>
<YEAR> <XXXX> METER <Cable ID>

Packing type: Wooden Drums

Length: 2km (As per customer requirement)

Length Tolerance: ± 10%