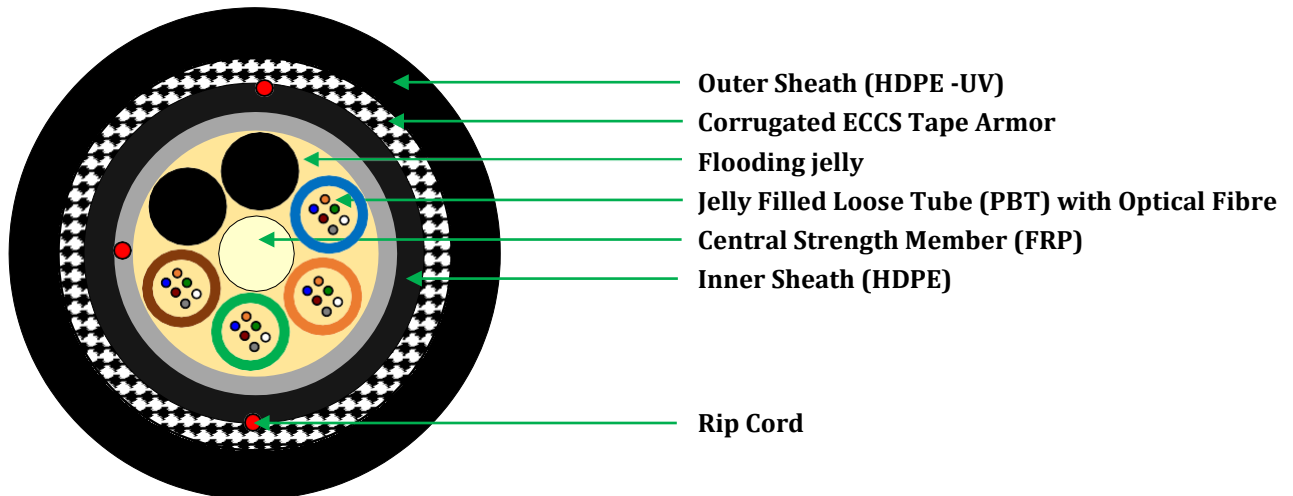


4/6/12F/24F/48F/96F SM MT DOUBLE SHEATH ARMoured OFC



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)	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	1.8 ± 0.1	2.1 ± 0.1	2.1 ± 0.1
Cable Dia. (mm)	11.8 ± 0.5	11.8 ± 0.5	11.8 ± 0.5	11.8 ± 0.5	12.5 ± 0.6	14.0 ± 0.6
Weight (kg/km)	130 ± 10%	130 ± 10%	130 ± 10%	130 ± 10%	150 ± 10%	195 ± 10%

Central Strength Member (mm)

FRP(1.8mm ± 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)	600/1500
Crush Resistance (N/100 mm)	1000
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

1	2	3	4	5	6	7	8
Blue	Orange	Green	Brown	Grey	White	Red	Black

FIBRE COLOUR CODE

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua/Nat

PRINTING, PACKING AND LENGTHS

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

Packing type: Wooden Drums

Length: 2km per drum

Length Tolerance: ± 10%