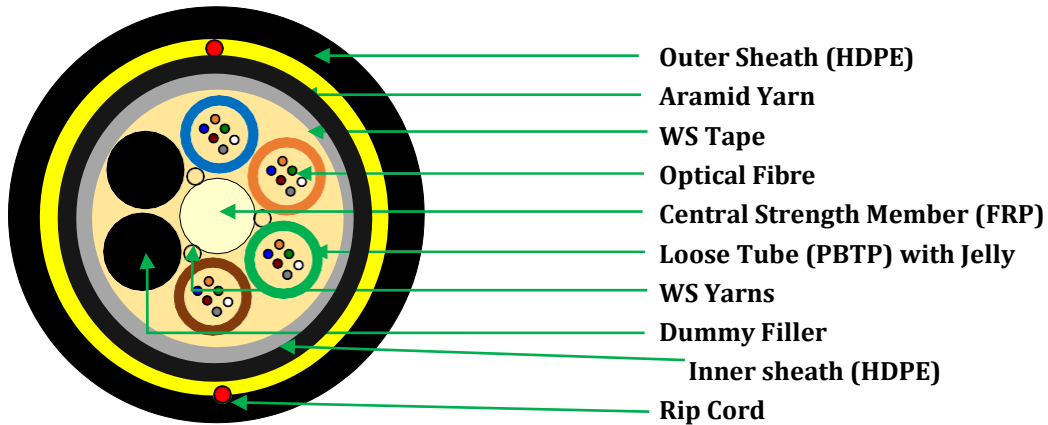


6/12F/24F SM G.652D MT ADSS OPTICAL FIBRE CABLE-300 MTR SPAN LENGTH



PHYSICAL CHARACTERISTICS

Fibre Type	Single Mode G.652D		
	6F	12F	24F
Fibre Count	6F	12F	24F
No. of Fibre per tube	6	6	6
No. of Tubes	1	2	4
No. of Fillers	5	4	2
Tube Diameter (mm)	2.0 ± 0.1		
Central Strength Member (mm)	FRP(2.1 ± 0.1)		
Core Type	Dry Core with WS Tape & WS Yarn		
Inner Sheath Material	HDPE-Black		
Inner sheath Thickness (mm)	1.6 (nominal)		
Peripheral strength member	Aramid Yarns over inner sheath		
Outer Sheath Material	HDPE-Black UV Resistant		
Outer Sheath thickness (mm)	2.5 (nominal)±0.5		
Outer cable diameter	15.6 ± 0.5		
Cable Weight (kg/km)	190 ± 10%		
Ripcord	Yes, 2 below outer sheath		
Rodent Protection	Yes		

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Max. Tensile Strength (KN) Installation	15
During service(KN)	10
Crush Resistance (N/100 mm)	2000
Impact Strength	10 impacts, 50N weight & 500 mm height
Torsion	±180°, 2 m cable, 75 N Load
Repeated Bend (@5kg load)	30 cycles
Bending Diameter	140mm(static) 280 (dynamic)
Temperature Range	-40°C to +70°C (Operation) -30°C to +70°C (Storage)
Span Length	300mtr
Sag	2%
Wind Speed	110km/hr

TRANSMISSION CHARACTERISTICS (CABLED FIBRE)

Attenuation (dB/km)	@ 1310 nm: ≤ 0.36 @ 1550 nm: ≤ 0.23
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)	9.3 ± 0.5(@1310 nm) 10.5 ± 0.5(@1550 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

FIBRE COLOUR CODE

1	2	3	4	5	6
Blue	Orange	Green	Brown	Grey	White/Nat

LOOSE TUBE COLOUR CODE

1	2	3	4
Blue	Orange	Green	Brown

PRINTING, PACKING AND LENGTHS

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

Packing type: Wooden Drums

Length: 2 km (As per customer requirement)

Length Tolerance: ± 10%