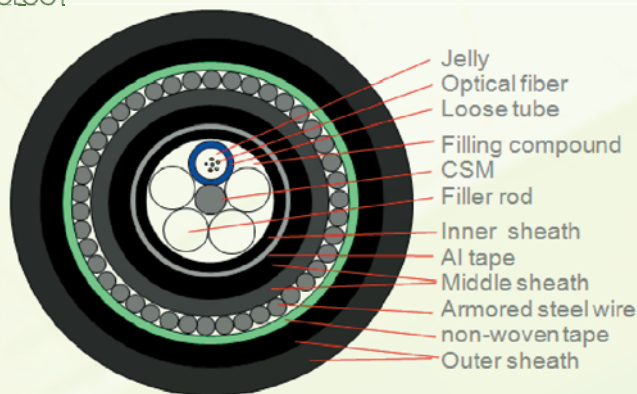


FIBER CABLE

Armoured Loose Tube & Fire Retardant (Multi Layer Protection)



Structure and Mechanical Specification

Central Strength Member	Material	Phosphating steel wire
	Diameter	1.4mm
Loose Tube	Material	PBT
	Diameter	1.9mm
Inner Sheath	Material	Black High Densitiy Polyethylene (HDPE)
	Thickness	0.8mm
	Diameter	6.6mm
Aluminium Tape	Material	Aluminium + Plastic coating
	Thickness	0.18mm + 0.05mm
Middle Sheath	Material	Black High Densitiy Polyethylene (HDPE) + Polyamide (Nylon)
	Thickness	1.2mm + 0.5mm
Armoured Steel Wire	Material	Galvanized Steel Wires
	Diameter	1.5mm
Wrapping tape	Material	Non Woven tape
Outer Jacket 1	Material	Black High Densitiy Polyethylene (HDPE)
	Diameter	1.2mm
Outer Jacket 2	Material	PVC + Fire Retardant
	Thickness	2.0mm
	Diameter	21.1mm

Transmission Parameters Of Fibers

Fiber/Glass Type	MM(62.5μm)	MM(50μm)	SM(9μm)
Operating Wave Length	850/1300nm	850/1300nm	1310/1550nm
Band width(MHz.Km)	≥160/500	≥200/500	-
Attenuation(db/Km)	3.50/1.50	3.50/1.50	0.45/0.30
Polarization Mode	-	-	≤0.2ps/(km)
Dispersion(PMD)	-	-	-
Cut Off Wave Length	-	-	≤1260nm

Fiber Colour Code

Core number	Colour	Core number	Colour
1	Blue	7	Red
2	Orange	8	Black
3	Green	9	Yellow
4	Brown	10	Purple
5	Grey	11	Pink
6	White	12	Aqua

Geometrical Parameters

Fiber/Glass Type	MM(62.5μm)	MM(50μm)	SM(9μm)
Core Diameter	62.5μm	50μm	9μm
Mode Field Non-Circularity(MFD)	-	-	<0.5μm
Core/Cladding Concentricity Error	≤2μm	≤2μm	≤0.6μm
Cladding Diameter	125μm ±2.0	125μm ±2.0	125μm ±2.0
Cladding Non circularity	≤2.0%	≤2.0%	1.00%
Coating/cladding Concentricity	≤12μm	≤12μm	≤12μm
Primary Coating Diameter	<2.0%	<2.0%	<1.0%
Numerical Aperture	0.275±0.015	0.275±0.015	-

Mechanical/Electrical/ Environment Characteristic

Tensile	2500N - Conform to IEC 794-1-E1
Crush Resistance	4000N/100mm - Conform to IEC 794-1-E3
Bending Radius	30*D (During installation)
	15*D (Installed)
Repeated Bending	25 times - Conform to IEC 794-1-E6
Impact Resistance	20 times - Conform to IEC 794-1-E4
Flame Retardant	Conform to IEC 60332-1
Temperature	-20 °C ~ + 70°C (Operating)
	-20 °C ~ + 70°C (Storage)