

**TECHNICAL SPECIFICATION OF CENTRAL TUBE CONSTRUCTION AND UNARMoured SINGLE LSZH/HFFR SHEATHED FIBER OPTICAL CABLE (IEC 60794-3-12)**

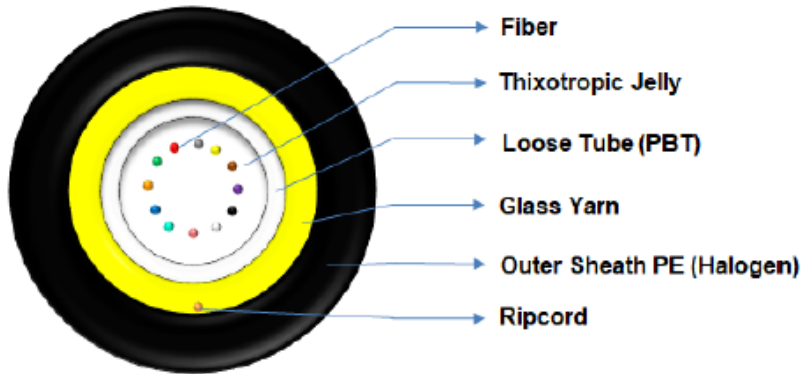
**(A-DQ(BN) H\_mxn 1.200N CT)**

Fiber Type	SM 9/125 (G.652 d)
Attenuation at 1310 nm	Max .0,36 dB/km
Attenuation at 1550 nm.	Max. 0,22 dB/km

		Up to 12 core	16-24 core
Outer Sheath Thickness	mm±0,1	1	1,1
Tube Diameter	mm±0,2	3,00	3,3
Tube Inner Diameter	mm±0,2	1,90	2,1
Number of Tube	Pieces	1	1
Number of Fiber per Tube	Fiber/tube	Up to 12 fiber	Up to 24 fiber
Nominal Outer Diameter of cable	Nom mm	6,3	6,6
Nominal Cable Weight	Kg/km ±%5	37,5	40
Nominal Gross Weight	Kg/drum ±%5	125	130
Drum Flange Diameter	cm	80	80
Nominal Cable Length on Drum	Meter/drum ±%5	2.000	2.000

Corrugated Steel Tape Thickness	NA	
Co-Polymer Thickness	NA	
Outer Sheath Material	LSZH/HFFR (IEC 60332-1-2)	
Ripcord	1 pieces under the sheath	
Cable drum Length	2.000 mt±%5	
Tensile Strength for Short Term	1.200N	IEC 60794-1-E1
Tensile Strength for Long Term	800N	IEC 60794-1-E1
Bending Radius	20xD	IEC 60794-1-2-E11
Repeated Bending Radius	15xD ,10 cycle,50N	IEC 60794-1-2-E6
Torsion Test	±180° ,1 meter,10 Cycle	IEC 60794-1-2-E7
King Test	Min 20xD at 20°	IEC 60794-1-2-E10
Impact Test	1 meter 5N	IEC 60794-1-2-E4
Crush Test	1.000N/100mm	IEC 60794-1-2-E3
Temperature Cycling	-30°C/+80°C	
Operation Temperature	-30°C/+60°C -Installation -40°C/+80°C -Operation	

## Cable Construction:



**Note:** Drawing is not scaled

## Color Code of Fibers

No of fiber	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Turquoise

No of fiber	13	14	15	16	17	18	19	20	21	22	23	24
Color	Blue / Black	Orange / Black	Green / Black	Brown / Black	Grey / Black	White / Black	Red / Black	Black or Naturel / White	Yellow / Black	Violet / Black	Pink / Black	Turquoise / Black

## Length marking on the cable

The outer sheath will be marked in one meter intervals as follows;

CABLE <Year of manufacturing> <number and type of fiber> <length marking in meter>

## Color of Sheath

Outer sheath should be LSZH/HFFR in accordance with IEC 60332-1-2, the color of outer sheath is BLACK that is including UV protection.

## Packing

Shipment will be done with non-returnable wooden drums with protection.

## Cable Life Time

Designed cable has a minimum 25 years' service life time, if the cable is correctly installed.

## Technical Specification of 50/125 MM OM2 Optical fiber

### Optical Specifications

Attenuation at 850 nm	Max 2,5 dB/km
Attenuation at 1300 nm	Max 0,70 dB/km
Band width at 850 nm:	Min 500 M Hz km
At 1300 nm:	Min 500 M Hz km
Numerical Aperture	0,200 ± 0,015

### Geometrical Specifications

Core Diameter:	50 ±2,5µm
Coating Diameter:	245 ±10µm
Cladding Diameter:	125 ±2 µm
Cladding Non Circularity:	Max 2%
Coating	Dual Layer UV Cured Acrylate Coat