

### APPLICATION

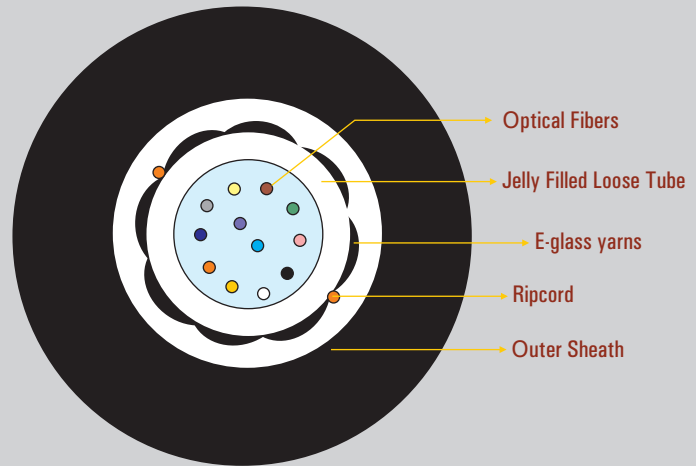
- Suitable for Indoor & Outdoor (duct), aerial, pipeline.
- Excellent waterproofing performance.
- Lightweight, Small, Compact cable size

### DESCRIPTION

- Central Loose tube with jelly compound.
- E - glass strength members.
- Sequential Meter Marking.

### STANDARDS

- ISO 11801
- IEC 60793-1/60794-1-2
- ITU-T REC G.652D
- Telcordia GR-20-core



### Mechanical & Environment Characteristics:

Operating Temperature	- 20 deg C to +60 deg C
Storage Temperature	- 40 deg C to +60 deg C
Jacket Material	HDPE / LSZH

Fiber Count	HDPE / LSZH Outer Diameter (mm)	HDPE / LSZH Thickness of Jacket (mm)	HDPE / LSZH Nominal Cable Weight (kg/km)	Pulling Tension IEC 60794-1-2-E1		Crush Load IEC 60794-1-2-E3 (N/100mm)		Bend Radius (mm) IEC 60794-1-2-E11 IEC 60794-1-2-E6	
				Short Term (N)	Long Term (N)	Short Term	Long Term	Short Term	Long Term
4	6.8+-0.3 / 6.2 +-0.3	1.8+-0.2/1.4+-0.2	34/45	1500	600	1000	300	20D	10D
6	6.8+-0.3 / 6.2 +-0.3	1.8+-0.2/1.4+-0.2	34/45	1500	600	1000	300	20D	10D
12	6.8+-0.3 / 6.2 +-0.3	1.8+-0.2/1.4+-0.2	34/45	1500	600	1000	300	20D	10D
24**	7.3+-0.3 / 6.7 +-0.3	1.8+-0.2/1.4+-0.2	34/45	1500	600	1000	300	20D	10D

\*\* 24C - Core contains two bundle of 12F in Blue & Orange color bundle

### Color Code:

BL-BLUE	OR-ORANGE	GR-GREEN	BR-BROWN	GY-GREY	WH-WHITE
RD-RED	BK-BLACK	YE-YELLOW	PU-PURPLE	PI-PINK	AQ / AQUA

### Optical Fiber Characteristics:

Fiber Type	9/125um (OS1)		62.5/125um (OM1)		50/125um (OM2)		50/125um (OM3)	
Operational Wavelength	1310nm	1550nm	850nm	1300nm	850nm	1300nm	850nm	1300nm
Maximum Attenuation (db/km)	0.36	0.22	3.5	1.5	3.5	1.5	2.7	0.8
Minimum Bandwidth (Mhz-km)	-	-	200	600	500	550	1500/2000*	500

\* Effective Modal Bandwidth at 850nm for OM3

**Characteristics (cabled) Single-Mode - Matched-Cladded optical fibers according to ITU**

Fiber-Type & Refractive Index	Mode-Field/Cladding Diameter(um)	Wavelength (nm)	Dispersion (ps/(nm-km))	PMD (ps/km)	Cable Cut-off Wavelength (nm)
9/125 / G.652D 1.4670/1.4675	9.2 ± 0.4 125 ± 0.7	1310 1550	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260

**Characteristics (cabled) Multi-Mode Graded-Index optical fibers according to IEC 60793**

Fiber-Type	Mode-Field/Cladding Diameter(um)	Wavelength (nm)	Numerical Aperture (um)	Refractive Index
62.5/125	62.5 ± 2.5	850	0.275 ± 0.015	1.497
OM1	125 ± 1	1300		1.493
50/125	50 ± 2.5	850	0.200 ± 0.015	1.483
OM2	125 ± 1	1300		1.478
50/125	50 ± 2.5	850	0.200 ± 0.015	1.483
OM3	125 ± 1	1300		1.478

**Cable, Drum & Pallet Sizes**

Cable Size	Standard Length
4F-12F	4 kms +/- 10%
24F	2 kms +/- 10%

**Ordering Information:**

<b>HDPE- High Density Poly Ethylene</b>				
	Single Mode(OS)	Multimode 62.5 um (OM1)	Multimode 50 um (OM2)	Multimode 50 um (OM3)
4 Fibers	NCB-FS09X-UUHD-04	NCB-FM62X-UUHD-04	NCB-FM50X-UUHD-04	NCB-FM51X-UUHD-04
6 Fibers	NCB-FS09X-UUHD-06	NCB-FM62X-UUHD-06	NCB-FM50X-UUHD-06	NCB-FM51X-UUHD-06
12 Fibers	NCB-FS09X-UUHD-12	NCB-FM62X-UUHD-12	NCB-FM50X-UUHD-12	NCB-FM51X-UUHD-12
24 Fibers	NCB-FS09X-UUHD-24	NCB-FM62X-UUHD-24	NCB-FM50X-UUHD-24	NCB-FM51X-UUHD-24
<b>LSZH- Low Smoke Zero Halogen</b>				
4 Fibers	NCB-FS09X-UULS-04	NCB-FM62X-UULS-04	NCB-FM50X-UULS-04	NCB-FM51X-UULS-04
6 Fibers	NCB-FS09X-UULS-06	NCB-FM62X-UULS-06	NCB-FM50X-UULS-06	NCB-FM51X-UULS-06
12 Fibers	NCB-FS09X-UULS-12	NCB-FM62X-UULS-12	NCB-FM50X-UULS-12	NCB-FM51X-UULS-12
24 Fibers	NCB-FS09X-UULS-24	NCB-FM62X-UULS-24	NCB-FM50X-UULS-24	NCB-FM51X-UULS-24

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