

APPLICATION

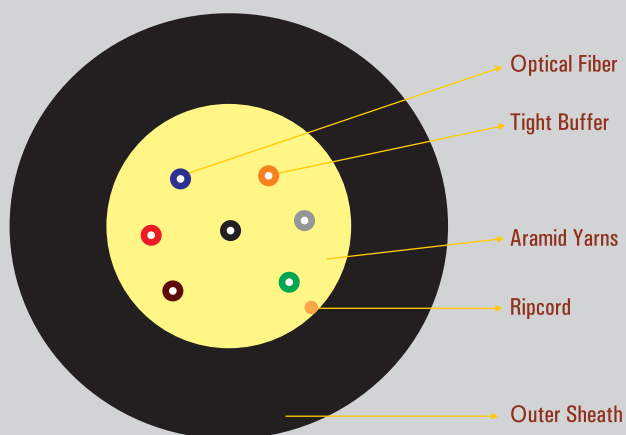
- Suitable for aerial, pipeline, bracket lying
- Suitable for indoor and outdoor cable
- Light weight, all dielectric self supporting

DESCRIPTION

- Tight Buffered fiber without jelly compound
- Aramid yarn strength members
- Round construction and termination can be made standard connector

STANDARDS

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



Mechanical, Physical & Environment Characteristics

Operating Temperature	– 10 deg to + 60 deg
Storage Temperature	– 20 deg to + 85 deg
Tight Buffer Material	PVC / LSZH
Jacket Material	HDPE / LSZH

Fiber Count	Outer Diameter (mm)	Nominal Thickness of Jacket (mm)	Nominal Cable Weight (kg/km)	Pulling Tension IEC 60794-1-2-E1		Crush Load (N/100mm) IEC 60794-1-2-E3		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	5.4 ± 0.3	1.2	29	640	640	1500	600	20D	10D
6	6.0 ± 0.3	1.2	35	730	730	1500	600	20D	10D
12	7.5 ± 0.3	1.3	52	1100	1100	1500	600	20D	10D

General Characteristics

Flame retardancy according to IEC 60332-3-22 (EN 50266-2-2) IEC 60331-25 (EN 50200) IEC 61034 (EN 50268-2)	Pass Pass Pass
Halogen-free according to IEC 60754-2 (EN 50267-2-2) Corrosively	pH ≥ 3.5 · uS/cm ≤ 100

Color Code

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

Optical Fiber Characteristics

Fiber Type	9/125um (Os1)	62.5/125um (OM1)		50/125um (OM2)		50/125um (OM3)	
Operational Wavelength	1310 nm	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm
Maximum Attenuation (db/km)	0.40 max	3.5 max	1.5 max	3.5 max	1.5 max	2.7 max	1.0 max
Minimum Bandwidth (Mhz-km)	–	200	600	500	550	2000	500

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

Fiber-Type	Mode-Field/Cladding Diametre(um)	Wavelength (nm)	Dispersion (ps/(nm-km))	PMD (ps/km)	Cable Cut-off Wavelength (nm)
9/125 G.652D	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 Diametre(um)	Wavelength (nm)	Numerical Aperture (um)
62.5/125 OM1	62.5 ± 2.5 125 ± 1	850 1300	0.275 ± 0.015
50/125 OM2	50 ± 2.5 125 ± 1	850 1300	0.20 ± 0.015
50/125 OM3	50 ± 2.5 125 ± 1	850 1300	0.20 ± 0.015

Ordering Information:

HDPE- High Density Poly Ethylene				
	Single Mode(OS)	Multimode 62.5 um (OM1)	Multimode 50 um (OM2)	Multimode 50 um (OM3)
4 Fibers	NCB-FS09I-UTHD-04	NCB-FM62I-UTHD-04	NCB-FM50I-UTHD-04	NCB-FM51I-UTHD-04
6 Fibers	NCB-FS09I-UTHD-06	NCB-FM62I-UTHD-06	NCB-FM50I-UTHD-06	NCB-FM51I-UTHD-06
12 Fibers	NCB-FS09I-UTHD-12	NCB-FM62I-UTHD-12	NCB-FM50I-UTHD-12	NCB-FM51I-UTHD-12
LSZH- Low Smoke Zero Halogen				
4 Fibers	NCB-FS09I-UTLS-04	NCB-FM62I-UTLS-04	NCB-FM50I-UTLS-04	NCB-FM51I-UTLS-04
6 Fibers	NCB-FS09I-UTLS-06	NCB-FM62I-UTLS-06	NCB-FM50I-UTLS-06	NCB-FM51I-UTLS-06
12 Fibers	NCB-FS09I-UTLS-12	NCB-FM62I-UTLS-12	NCB-FM50I-UTLS-12	NCB-FM51I-UTLS-12

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