INDOOR DISTRIBUTION FIBER OPTIC CABLE

Description

RFI Indoor Distribution Fiber Optic Cable is a multi-purpose distribution cable.

For cable up to 12 cores, it comprises up to twelve 900um flame retardant tight buffer fibers. To improve the strength of the cable, a layer of Aramid Yarn is applied around the Tight buffer fibers as strength member.

For cable greater than 12 cores, it is divided into sub-units containing up to six 900um flame retardant tight buffer fibers. Each sub-unit contains a layer of Aramid Yarn to improve the strength of the sub-units. A Fiber Reinforced Plastic (FRP) is located in the center to act as a non-metallic strength member.

The cable is covered with a Outer PVC or LSZH Jacket. Cable bend insensitive (BI) G.652D, G.657A1 standards are completely compatible with each other.

Application

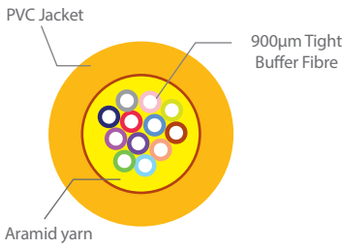
Indoor Distribution for horizontal, vertical and backbone connectivity.

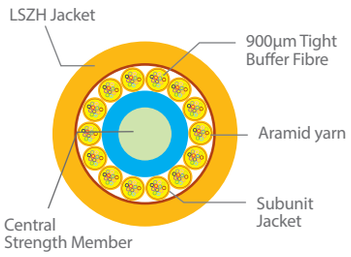
Standard

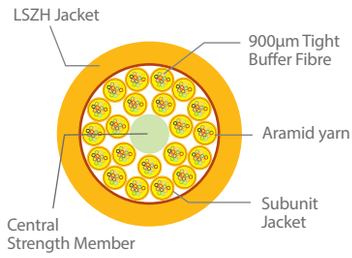
- ISO/IEC 11801
- TIA/EIA 568B
- G652D/G657A1
- ICEA-598
- UL OFNR
- ITU Recommendation G652/G657A1
- IEC 60794-2-20/21
- IEC 60332-1 for LSZH
- GR-409

Characteristics

- All dielectric structure.
- Tight buffer fiber provides excellent flame retardant performance.
- Aramid yarn provides execellent tensile strength.
- Single mode fiber meets ITU-G652D, G657A1 recommendation







Physical Properties

Fiber Count		2 ~ 15	14 ~ 72	74 ~ 108
Tensile Strength, N	Long Term	200	400	1000
	Short Term	660	1320	3000
Crush Resistance, N/100 mm	Long Term	300	300	300
	Short Term	1000	1000	1000
Operating Temperature	-20°C to +60°C			

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Optical Properties

		OM1 (62.5um)	OM2 (50um)	OM3 (50um)	OM4 (50um)	OS2 (9um)
Attenuation (Typical)	@ 850 nm	≤ 3.0 dB/km	≤ 3.0 dB/km	≤ 2.3 dB/km	≤ 2.3 dB/km	-
	@ 1300 nm	≤ 1.0 dB/km	≤ 1.0 dB/km	≤ 0.6 dB/km	≤ 0.6 dB/km	-
	@ 1310 nm	-	-	-	-	≤ 0.34 dB/km
	@ 1383 nm	-	-	-	-	≤ 0.34 dB/km
	@ 1550 nm	-	-	-	-	≤ 0.20 dB/km
	@ 1625 nm	-	-	-	-	≤ 0.24 dB/km
Bandwidth (Overfilled Modal BW)	@ 850 nm	≥ 200 MHz-km	≥ 500 MHz-km	≥ 1500 MHz-km	≥ 3500 MHz-km	-
	@ 1300 nm	≥ 600 MHz-km	≥ 1000 MHz-km	≥ 500 MHz-km	≥ 500 MHz-km	-
Bandwidth (Effective Modal BW)	@ 850 nm	-	-	≥ 2000 MHz-km	≥ 4700 MHz-km	-
	@ 1300 nm	-	-	≥ 500 MHz-km	≥ 500 MHz-km	-

Ordering information

Part No.	Description
RCF-ID31yyy-30x	Multi-mode 62.5/125um OM1 Indoor Distribution Tight Buffer Fiber Optic Cable, PVC
RCF-ID32yyy-30x	Multi-mode 50/125um OM2 Indoor Distribution Tight Buffer Fiber Optic Cable, PVC
RCF-ID33yyy-30x	Multi-mode 50/125um OM3 Indoor Distribution Tight Buffer Fiber Optic Cable, PVC
RCF-ID34yyy-30x	Multi-mode 50/125um OM4 Indoor Distribution Tight Buffer Fiber Optic Cable, PVC
RCF-ID35yyy-30x	Single Mode 9/125um G652D Indoor Distribution Tight Buffer Fiber Optic Cable, PVC
RCF-ID36yyy-30x	Single Mode 9/125um G657A1 Indoor Distribution Tight Buffer Fiber Optic Cable, PVC
RCF-ID31yyy-10x	Multi-mode 62.5/125um OM1 Indoor Distribution Tight Buffer Fiber Optic Cable, LSZH
RCF-ID32yyy-10x	Multi-mode 50/125um OM2 Indoor Distribution Tight Buffer Fiber Optic Cable, LSZH
RCF-ID33yyy-10x	Multi-mode 50/125um OM3 Indoor Distribution Tight Buffer Fiber Optic Cable, LSZH
RCF-ID34yyy-10x	Multi-mode 50/125um OM4 Indoor Distribution Tight Buffer Fiber Optic Cable, LSZH
RCF-ID35yyy-10x	Single Mode 9/125um G652D Indoor Distribution Tight Buffer Fiber Optic Cable, LSZH
RCF-ID36yyy-10x	Single Mode 9/125um G657A1 Indoor Distribution Tight Buffer Fiber Optic Cable, LSZH

* yyy = Number of cores

* x = E, F, H, M, Q, R

Example:
RCF-ID36006-10H — 6 Cores Single Mode 9/125um G657A1 Indoor Distribution Fiber Optic Cable. LSZH