

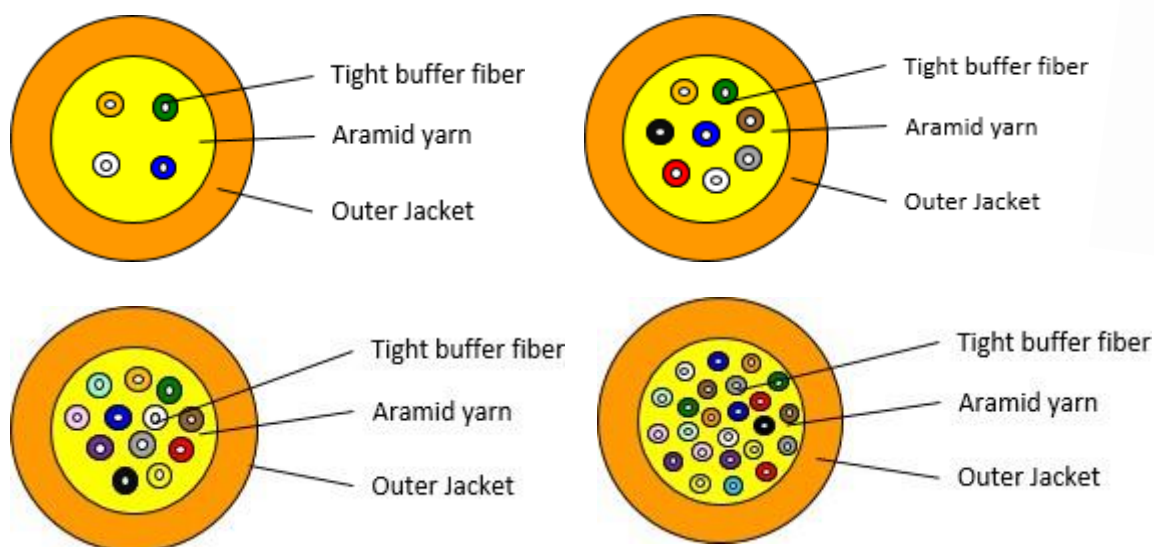
Applications

Prose indoor tight-buffered distribution fiber optic cable is designed for fiber solutions with excellent performance which exceed TIA / EIA 568.3-D, ISO / IEC 11801, EN50173 requirements. Good EMI-resistant, easy installation, meanwhile having extremely high flexibility, adaptability and maximally integrated designing.

Characteristic/ Standard

- Indoor any purpose cable distribution;
- Backbone distribution cable in a building
- Comply with standard IEC 60794, IEC 60793;
- LSZH jacket meet IEC 60332-1

Profile/Outline



Structure parameters

Items		Specification					
Fiber count		2	4	6	8	12	16&24
Optical Fiber	Diameter($\pm 5\mu\text{m}$)	250					
	Diameter($\pm 50\mu\text{m}$)	900					
Tight buffer	Color	1. White 2. Blue 3. Orange 4. Green 5. Brown 6. Grey 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Aqua.					
	Core reinforce	Aramid yarn					
	Sheath material	OFNR/OFNP/LSZH					
	Color	Yellow (SM) - Orange (OM2) - Aqua(OM3) – Violet(OM4)					
	Out diameter(mm)	4.0 $\pm$ 0.3	4.8 $\pm$ 0.3	4.8 $\pm$ 0.3	5.6 $\pm$ 0.3	6.2 $\pm$ 0.3	8.1 $\pm$ 0.3

Cable	Cable weight(kg/km)	Approx.13	Approx.19	Approx.22	Approx.30	Approx.36	Approx.59
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Optical Parameters

Fiber Type		Single-mode G652D (1310/1550nm)	Single-mode G657A1 (1310/1550nm)	Single-mode G657A2 (1310/1550nm)
Attenuation(dB)	Typical	0.36/0.22	0.36/0.22	0.36/0.22
	Maximum	0.5/0.4	0.5/0.4	0.5/0.4
Zero Dispersion Slope		$\leq 0.091 \text{ ps/km}\cdot\text{nm}^2$	$\leq 0.092 \text{ ps/km}\cdot\text{nm}^2$	$\leq 0.092 \text{ ps/km}\cdot\text{nm}^2$
Dispersion(1285~1340nm)		-3.5 – 3.5ps/(nm·km)	-3.5 – 3.5ps/(nm·km)	-3.5 – 3.5ps/(nm·km)
Mode field Diameter (@1310nm)		9.1±0.4 μm	8.8±0.4 μm	8.8±0.4 μm
Cutoff wavelength cable(nm)		≤1260 nm	≤1260 nm	≤1260 nm
Min bend radius(mm)		16mm	10mm	7.5mm
Cladding diameter(μm)		125±1.0	125±1.0	125±1.0

Fiber Type		Multi-mode (62.5/125μm) (850/1300nm)	Multi-mode (50/125μm) (850/1300nm)	Multi-mode OM3 (850/1300nm)	Multi-mode OM4 (850/1300nm)	Multi -mode OM5 (850/953nm/1300nm)
Attenuation(dB)	Typical	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/-1.0
	Maximum	3.5/1.5	3.5/1.5	3.5/1.5	3.5/1.5	3.5/-1.5
Bandwidth (MHz·km)		≥200/≥500	≥500/≥500	≥1500/≥500	≥3500/≥500	≥3500/≥1850/≥500
Effective modal bandwidth		----/----	----/----	≥2000/----	≥4700/----	≥4700/2470
10 Gigabit Ethernet SX (MHz·km)		----	----	≤300/----	≤550/----	≤600
Min bend radius(mm)		30	30	7.5	7.5	7.5
Cladding diameter(μm)		125±1.0	125±1.0	125±1.0	125±1.0	125±1.0

Mechanical & temperature characteristics

Items	Parameters
Tensile strength (Long term)	300N
Tensile strength (Short term)	1000N
Min bend radius(Dynamic)	20 times O.D
Min bend radius(Static)	10 times O.D
Crush resistance (Long term)	200N/100mm
Crush resistance (Short term)	1000N/100mm
Storage temperature	-40℃~+70℃
Installation temperature	-20℃~+60℃
Operation temperature	-20℃~+60℃
Flame retardant	IEC 60332-1

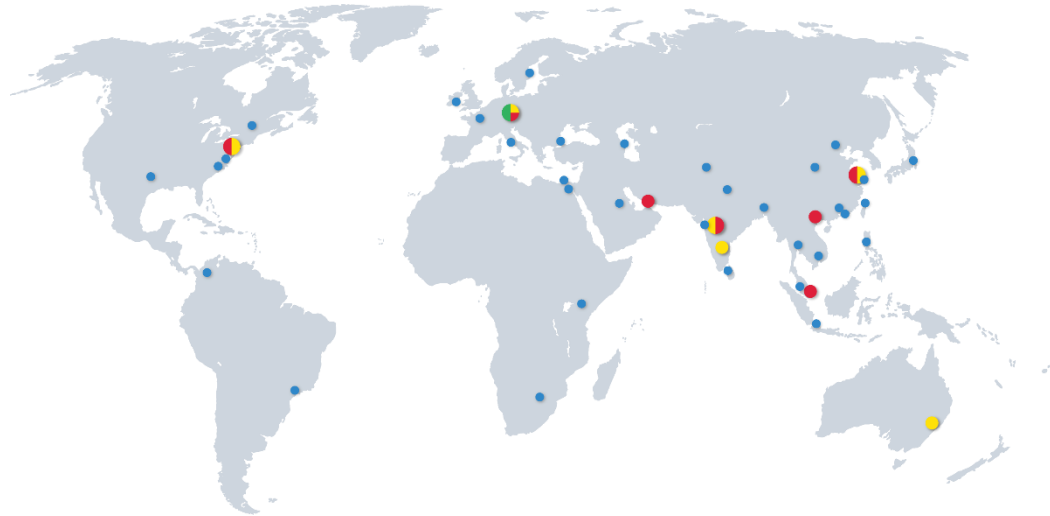
Ordering Information

Category	Cable Structure	Fiber Type	Outer Sheath Material	Fiber Count
FC: Fiber Cable	01:Indoor,tight-buffered,central tube (2-24F)	GD: SM G652D M3: MM OM3 M4: MM OM4 M5: MM OM5	1: OFNR 2: LSZH 60332-1 4: OFNP 5: LSZH 60332-3A 6: LSZH 60332-3C 7: LSZH Dca+UV 8: LSZH Dca	004:4F 006:6F 008:8F 012:12F 016:16F 024:24F

For Example:

Order Number	Fiber count	Description
FC01-GD1012	12	Cable, Indoor, Distribution, Tight Buffered, central tube, 12F, SM G652D, OFNR
FC01-M31012	12	Cable, Indoor, Distribution, Tight Buffered, central tube, 12F, MM OM3, OFNR
FC01-M41024	24	Cable, Indoor, Distribution, Tight Buffered, central tube, 24F, MM OM4, OFNR
FC01-GD2006	6	Cable, Indoor, Distribution, Tight Buffered, central tube, 6F, SM G652D, LSZH
FC01-M32006	6	Cable, Indoor, Distribution, Tight Buffered, central tube, 6F, MM OM3, LSZH
FC01-M42006	6	Cable, Indoor, Distribution, Tight Buffered, central tube, 6F, MM OM4, LSZH
FC01-GD2012	12	Cable, Indoor, Distribution, Tight Buffered, central tube, 12F, SM G652D, LSZH
FC01-M32012	12	Cable, Indoor, Distribution, Tight Buffered, central tube, 12F, MM OM3, LSZH
FC01-M42024	24	Cable, Indoor, Distribution, Tight Buffered, central tube, 24F, MM OM4, LSZH

GLOBAL FOOTPRINT



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