

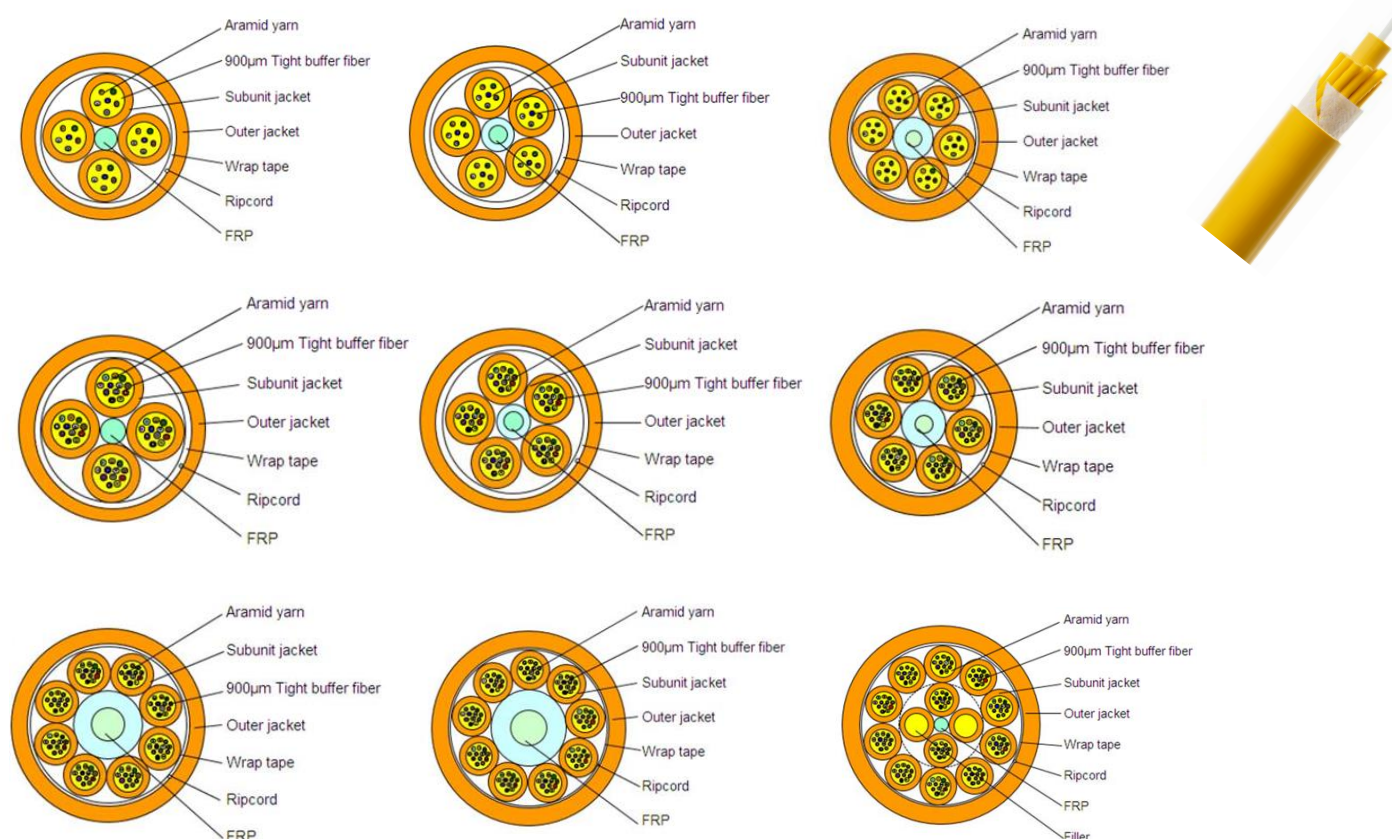
Applications

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		24	30	36	48	60	72	96	108	144
Optical Fiber	Diameter(±5μm)	250								
	Diameter(±50μm)	900								
	Color	1. White 2. Blue 3. Orange 4. Green 5. Brown 6. Grey7. Red 8. Black 9. Yellow 10. Violet								

		11. Pink 12. Aqua								
Subunit	Count	4	5	6	4	5	6	8	9	12
	Tight buffer count per subunit	6	6	6	12	12	12	12	12	12
	Diameter (±0.25mm)	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0
	Strength member	Aramid yarn								
Cable	Core reinforce	FRP								
	Out diameter(mm)	12.3±	13.5±	14.5±	14.8±	16.1±	17.5±	20.7±	22.3±	24.8±
	Cable weight(kg/km)	Approx. 131	Approx. 160	Approx. 191	Approx. 184	Approx. 226	Approx. 273	Approx. 391	Approx. 461	Approx. 455

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		≤0.091 ps/km·nm ²	≤0.092 ps/km·nm ²	≤0.092 ps/km·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 (installation) (24-48F)	660N
Tensile strength (installation) (60-144F)	1320N
Tensile strength (operation) (24-48F)	200N

Tensile strength (operation) (60-144F)	400N
Min bend radius(installation)	20 times O.D
Min bend radius(operation)	10 times O.D
Crush resistance	1000N/100mm
Storage temperature	-20℃~+60℃
Installation temperature	-20℃~+60℃
Operation temperature	-20℃~+60℃
Flame retardant	IEC 60332-1

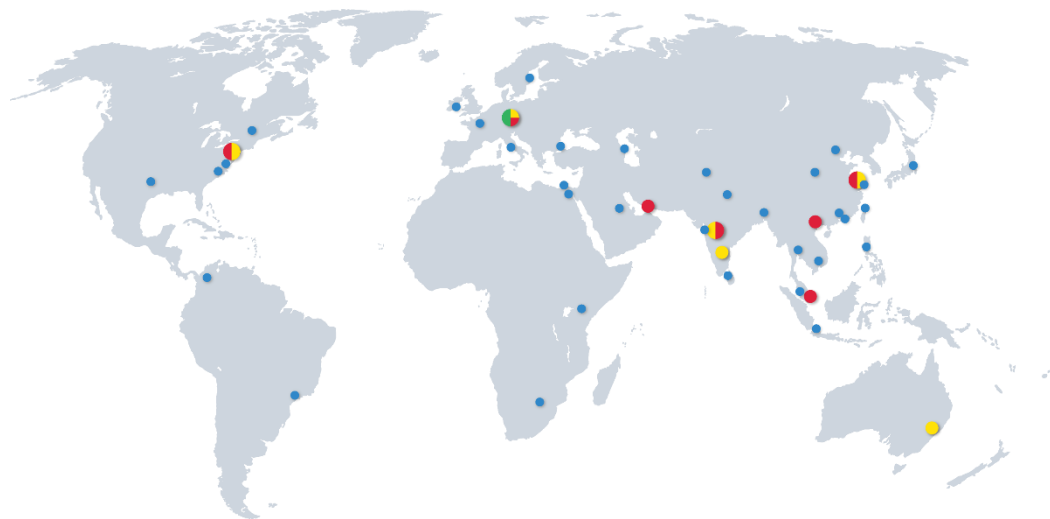
Ordering Information

Category	Cable Structure	Fiber Type	Outer Sheath Material	Fiber Count
FC: Fiber Cable	02:Indoor,Distribution,tight-buffered, stranded (24-144F)	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	024:24F 048:48F 072:72F 096:96F 108:108F 144:144F

For Example:

Order Number	Fiber count	Description
FC02-GD1024	24	Cable, Indoor, Distribution, Tight Buffered, stranded, 24F, SM G652D, OFNR
FC02-M31024	24	Cable, Indoor, Distribution, Tight Buffered, stranded, 24F, MM OM3, OFNR
FC02-M41048	48	Cable, Indoor, Distribution, Tight Buffered, stranded, 48F, MM OM4, OFNR
FC02-GD2024	24	Cable, Indoor, Distribution, Tight Buffered, stranded, 24F, SM G652D, LSZH
FC02-M32024	24	Cable, Indoor, Distribution, Tight Buffered, stranded, 24F, MM OM3, LSZH
FC02-M42048	48	Cable, Indoor, Distribution, Tight Buffered, stranded, 48F, MM OM4, LSZH

GLOBAL FOOTPRINT



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