

Opti-Core® Fiber Optic Distribution Cable

physical properties – riser

Fiber Count	Cable OD Inches	Long Term Bend Radius Inches	Installation Bend Radius Inches	Cable Weight Lb/kft
2	0.19	3.7	1.9	15
4	0.22	4.4	2.2	19
6	0.24	4.7	2.3	21
8	0.25	4.9	2.5	23
12	0.28	5.5	2.8	30
24	0.32	6.4	3.2	43
36	0.65	12.9	6.5	155
48	0.63	12.6	6.3	135
60	0.66	6.6	9.9	165
72	0.79	16.0	8.0	204
96	0.92	18.4	9.2	282
144	0.95	19.0	9.5	333

physical properties – plenum

Fiber Count	Cable OD Inches	Installation Bend Radius Inches	Long Term Bend Radius Inches	Cable Weight Lb/kft
2	0.16	3.2	1.6	9
4	0.17	3.4	1.7	14
6	0.18	3.6	1.8	15
8	0.20	4.0	2.0	18
12	0.23	4.6	2.3	22
24	0.30	6.0	3.0	42
36	0.66	13.2	6.6	177
48	0.66	13.2	6.6	166
60	0.62	9.3	6.2	168
72	0.79	15.7	7.9	257
96	0.91	18.2	9.1	356
144	0.89	13.4	9.0	318

technical properties

	Singlemode	OM1	OM2	OM3	OM4
Cabled Attenuation (maximum)					
850nm		3.0dB/km	3.0dB/km	3.0dB/km	3.0dB/km
1300nm		1.0dB/km	1.0dB/km	1.0dB/km	1.0dB/km
1310nm	.7dB/km				
1550nm	.7dB/km				
Core Diameter	8.2µm *				
Cladding Diameter	125µm ± 0.7µm	62.5µm ± 2.5µm	50µm ± 2.5µm	50µm ± 2.5µm	50µm ± 2.5µm
Coating Diameter	245µm ± 10µm	245µm ± 10µm	245µm ± 5µm	245µm ± 5µm	245µm ± 5µm
Overfilled Bandwidth- 850nm (MHz-km)	—	≥200	≥500	≥1500	≥3500
Overfilled Bandwidth- 1300nm (HMz-km)	—	≥500	≥500	≥500	≥500
Effective Modal Bandwidth- 850nm (MHz-km)	—	≥220	≥950	≥2000	≥4700
Compliance	ITU-T G.652 (A,B,C, D), ITU-T G.657.A1 IEC 60793-2-50, ISO 11801 OS2, TIA-492-CAAB, Telcordia GR-20	TIA-492AAAA IEC 60793-2-10	TIA-492AAAB, TIA-492AAAC, TIA-492AAAD, IEC 60793-2-10	TIA-492AAAB, TIA-492AAAC, TIA-492AAAD, IEC 60793-2-10	TIA-492AAAB, TIA-492AAAC, TIA-492AAAD, IEC 60793-2-10

Opti-Core® Fiber Optic Distribution Cable

fiber color code

1 Blue	7 Red
2 Orange	8 Black
3 Green	9 Yellow
4 Brown	10 Violet
5 Slate	11 Rose
6 White	12 Aqua

ordering information

*Example: FODRZ12Y – Fiber, Distribution, Riser rated, OM4, 12-fiber

Character	1	2	3	4	5	6	7	8
Example*	F	O	D	R	Z	1	2	Y

1 & 2 – Fiber Product

FS = Fiber – OM1, OM2, OS1

FO = Fiber – OM3, OM4

3 – Cable Construction

D = Distribution

4 – Flame Rating

R = Riser

P = Plenum

5 – Fiber Type

9 = Singlemode (OS2 ITU G.652.D)

6 = Multimode (OM1)

5 = Multimode (OM2)

X = Multimode (OM3)

Z = Multimode (OM4)

6 & 7 – Fiber Count

02 = 2-fiber

04 = 4-fiber

06 = 6-fiber

08 = 8-fiber

12 = 12-fiber

24 = 24-fiber

36 = 36-fiber

48 = 48-fiber

60 = 60-fiber

72 = 72-fiber

96 = 96-fiber

1A = 144-fiber

8 – RoHS

Y = Yes

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