

FIBER OPTIC CABLE PRODUCT

INDOOR DISTRIBUTION CABLE SM, MM



APPLICATION

- Application support IEEE802.3, ATM, FDDI, fiber channel, CATV,CCTV FTTX or other
- As building to building connecting cable
- As indoor soft cable along the wall, ceiling, between layers and in conduits
- As pigtails, movable connectors and patch cords for communication equipment

STANDARD

- IEEE802.3 (LAN, Ethernet Fast Ethernet, Gigabit Ethernet and 10 Gigabit Ethernet) ATM, FDDI, FTTX, FiberChannel, CATV,Communication
- ANSI/TIA-568-C.3, ANSI/ICEA 596, ANSI/TIA/EIA-568-B.3 ISO/IEC 11801:2002
- Telcordia(Bellcore) GR-409-CORE
- ITU-T G.652D (Singlemode), ITU-T G.651 (Multimode), ITU-TG 657A2
- IEC 60332-1, IEC 60332-2& IEC 60332-3, IEC 60793/60794,EIA/TIA-455
- UL Listed E337497 RoHS Compliant 2002/95/EC

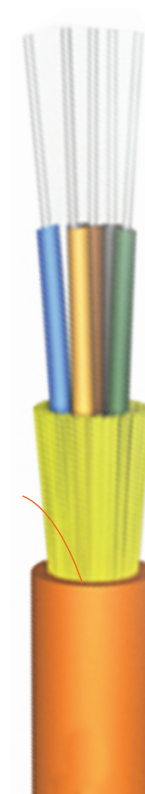
Characteristic of Optical Cable

Min. bending radius

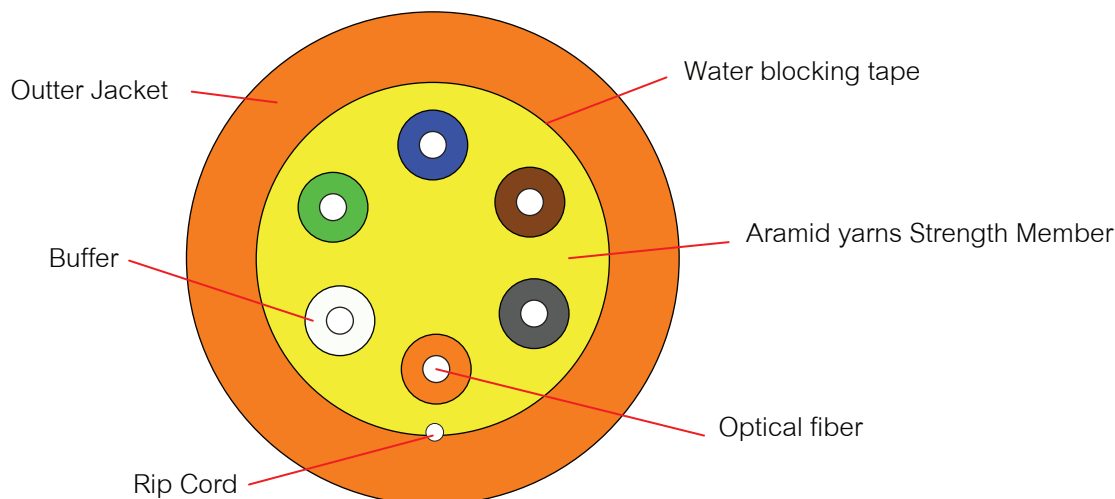
- Static: 10 x cable diameter
- Dynamic: 20 x cable diameter

Application temperature range

- Operation: - 20°C ~ +70°C
- Installation: - 10°C ~ +60°C
- Storage/transportation: - 20°C ~ +70°C



F-DX-XX



CABLE STRUCTURE AND PARAMETER

Item	Contents	Unit	Value		
Optical Fiber	model number	/	/		
	number	/	4	8	12
	Color	/	nature		
Tight Buffer	color	/	Blue, orange, green, brown, gray, white, red, black, yellow, violet, pink, aqua		
	material	/	LSZH		
	diameter	mm	4.7 ± 0.4	0.85 ± 0.05	6.3 ± 0.4
Strength member	Material	/	aramid fiber		
	Diameter	mm	5.8 ± 0.4		
Outer jacket	Material	/	LSZH		
	Color	/	yellow		
Tensile performance	Short term	N	450 (fiber strain ≤ 0.6%)		
	Long term	N	200		
Crush	Short term	N/100mm	500		
	Long term	N/100mm	250		
Cable attenuation		dB/km	≤ 0.4 at 1310nm, ≤ 0.3 at 1550nm		
Cable weight (Approx.)		Kg/km	22.3	30.7	36.4

OPTICAL FIBER

Item		Unit	Specification
Mode field diameter	1310nm	μm	9.2 ± 0.4
	1550nm	μm	10.4 ± 0.5
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤ 1.0
Core concentricity error		μm	≤ 0.5
Coating diameter		μm	242 ± 7
Coating/cladding concentricity error		μm	≤ 12
Cable cut-off wavelength		nm	≤ 1260
Attenuation	1310nm	dB/km	≤ 0.35
	1550nm	dB/km	≤ 0.21
Macro-bend loss (Ø20mm×1)	1550nm	dB	≤ 0.75
	1635nm	dB	≤ 1.5

ORDER INFORMATION

PRODUCT	PART NUMBER
Distribution Cable 6 Core, 50/125MM	F-D5-06
Distribution Cable 12 Core, 50/125MM	F-D5-12
Distribution Cable 6 Core, SM	F-D9-06
Distribution Cable 12Core, SM	F-D9-12