

FIBER OPTIC CABLE PRODUCT

INDOOR CABLE SERIES SM / MM



PROPERTIE

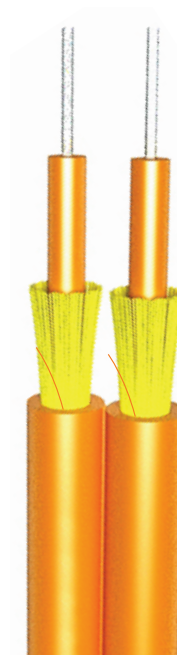
- High strength aramid yarn strength member ensures high tensile strength and long term stability transmission
- Small outer diameter, lightweight, flame retardant, easy to strip, low attenuation, physically soft
- Direct splicing between tight buffer cables and need no tie-in box or pigtail

APPLICATION

- 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
- Temperature range $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$

STANDARD

- 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



F-ZX-XX-XX

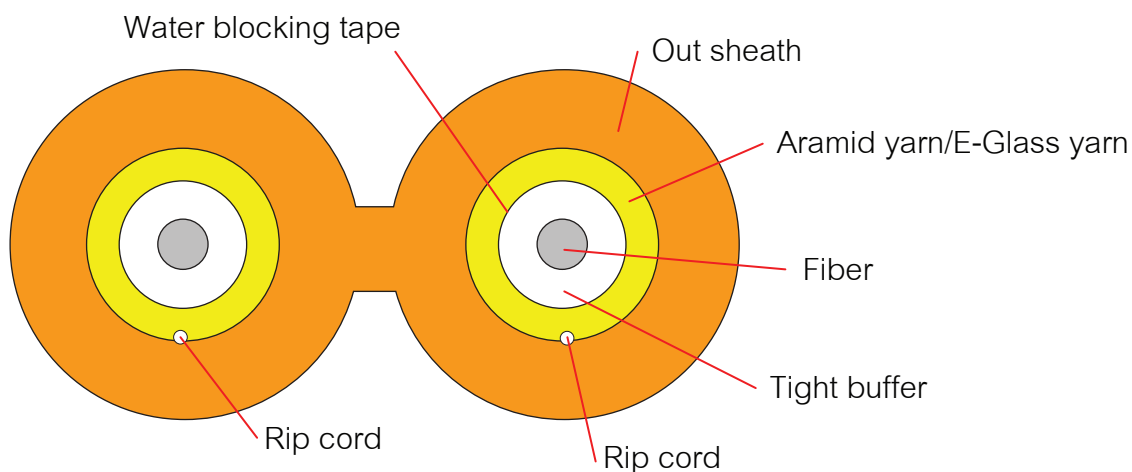
Characteristic of Optical Cable

Min. bending radius

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

Application temperature range

- Operation: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Installation: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Storage/transportation: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$



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CABLE STRUCTURE AND PARAMETER

Item	Contents	Unit	Value
Optical Fiber	model number	/	/
	number	/	2
	Color	/	nature
Tight Buffer	color	/	White, yellow
	material	/	LSZH
	diameter	mm	0.85 ± 0.05
Strength member	Material	1	aramid fiber
	Material	2	/
Outer jacket	Diameter	mm	2.0 ± 0.2 * 4.1 ± 0.2
	Material	/	LSZH
	Color	/	Yellow
Tensile performance	Short term	N	100
	Long term	N	50
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	7.6

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 INFOMATION

PRODUCT	PART NUMBER
Indoor Cable, Simplex, 50/125MM 1Core	F-Z5-01-SX
Indoor Cable, Duplex, 50/125MM 2Core	F-Z5-02-DX
Indoor Cable, Simplex, 9/125 SM, 1Core	F-Z9-01-SX
Indoor Cable, Duplex, 9/125 SM , 2Core	F-Z9-02-DX