

FIBER OPTIC CABLE PRODUCT

INDOOR DISTRIBUTION CABLE SM, MM

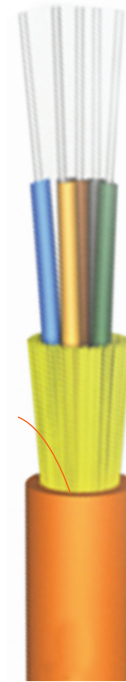


APPLICATION

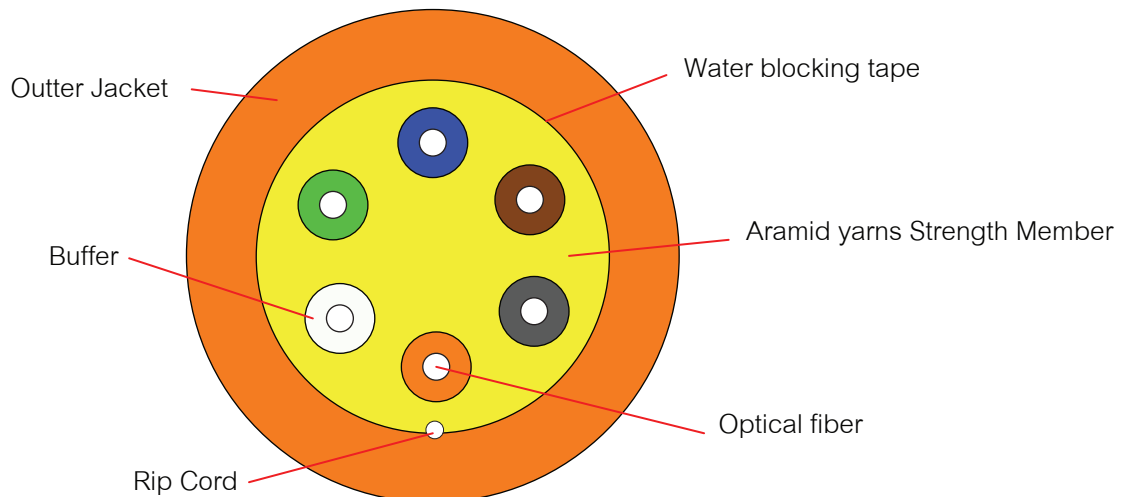
- Application support IEEE802.3, ATM, FDDI, fiber channel, CATV,CCTV FTTX or other
- As building to building connecting cable
- As indoor soft cable along the wall, ceiling, between layers and in conduits
- As pigtails, movable connectors and patch cords for communication equipment

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



F-DX-XX



CONSTRUCTION

Fiber type		Single -mode	Multi-mode	
		9/125 μm	62.5/125 μm (OM1)	50/125 μm (OM2) 50/125 μm (OM3)
Coating diameter (μm)		250		
Buffer diameter (μm)		900		
Fiber count		6	12	
Outer Diameter D*H (mm)		5.2±0.2	6.8±0.2	
Nominal weight (Kg/km)		23	38	
Strength member		Aramid yarn		
Sheath	Material	Polyvinyl chloride (PVC)		
	Thickness	1.5±0.3mm		
Cable diameter (mm)		4.8-6.8		
Cable weight approx. (Kg/km)		25-45		
Min bending radius Static	Installation	20D		
	Operation	10D		
Max tensile load (N)	Installation	1800N		
	Operation	600N		
Max crush resistance		1000		
Storage temperature		-40°C - +75°C		
Installing temperature		-20°C - +70°C		

OPTICAL FIBER CHARACTERISTICS

Attenuation	850nm	≤23 ≤25 ≤27	[dB/km]
	1300nm	≤0.55 ≤0.70 ≤0.80	[dB/km]
Overfilled modal bandwidth	850nm	≥500 ≥400 ≥400	[MHz-km]
	1300nm	≥1000 ≥800 ≥800	[MHz-km]
Numerical aperture (NA)		0.200 ±1.015	
Group index of refraction (typical)		850nm	1.482
Backscatter characteristics		1300nm	
Step (mean of bidirectional measurement)		≤0.10	[dB]
Irregularities over fiber length and point discontinuity		≤0.10	[dB]
Different backscatter coefficient (bidirectional measurement)		≤0.08	[dB/km]
Core diameter		50±2.5	[μm]
Cladding diameter		12.50±1.0	[μm]
Cladding non-circularity		≤1.0	[%]
Coating diameter		242±7	[μm]
Coating/cladding concentricity error		≤12.0	[μm]
Coating non-circularity		≤6.0	[%]
Core/cladding concentricity error		≤1.5	[μm]
Environmental characteristics		850nm, 1300nm	
Temperature dependence, induced attenuation		-60 °C -+85°C	≤0.10 [dB/km]
Temperature-humidity cycling, induced attenuation		-10°C -+85°C, 90% R.H	≤0.20 [dB/km]
Damp heat dependence, induced attenuation		85°C, 85% R.H 30 days	≤0.20 [dB/km]
Water soak dependence , induced attenuation		20 °C, 30 days	≤0.20 [dB/km]

Proof test	offline	≤ 9.0	[N]
		≥ 1.0	[%]
		≥ 100	[KPS]
Bending dependence	850nm,1300nm		
Induce attenuation	100 turns, 75mm diameter	≤ 0.50	[dB]
Coating strip force	Typical average force	1.7	[N]
	Peak force	$\geq 1.3 \leq 8.9$	[N]
Dynamic stress corrosion susceptibility parameter (nd,Typical)		≥ 27	

PACKING AND DRUM

The cable is rounded on a non-returnable wooden drum. Both ends of cable are securely fastened to drum and sealed with a shrinkable cap to prevent ingress of moisture. The following information shall be marked on the outer sheath of the cable at an interval of about 1 meter.

- Cable type and number of optical fiber
- Manufacturer name
- Month and Year of Manufacture
- Cable length

The sequential number of the cable length shall be marked on the outer sheath of the cable at an interval of 1meter \pm 1%

ORDER INFOMATION

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