

FIBER INTERCONNECT PRODUCTS



Opterna
your reliable connection

Fiber Optic Distribution Cable

Description / Application

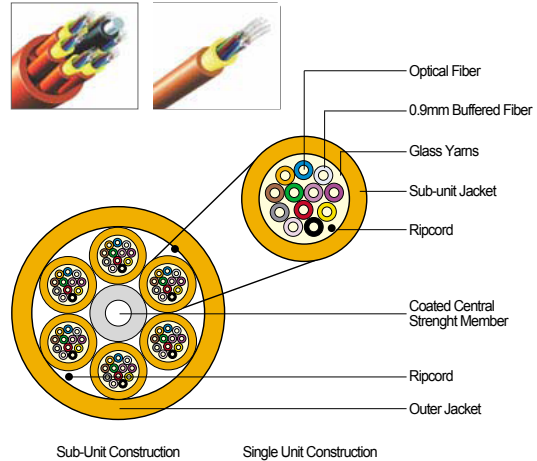
- Distribution cables are rugged, high performance optical communication cables for inside plant installations
- Backbone & Computer Room Cabling
- Compact design for limited conduit space
- RoHS (Restriction of the use of Certain Hazardous Substances Directive) complied

Specifications

- ISO/IEC 11801
- Telcordia GR-409-CORE
- ANSI/ICEA S-83-596

Options

- Fiber - Single mode, 50 μ m, 62.5 μ m multi mode available
 - Sub-unit & Outer Jacket color
 - Single Mode : Yellow
 - 62.5/125 μ m 1Gbe : Orange
 - 50/125 μ m 1Gbe : Orange
 - 50/125 μ m 10Gbe : Aqua
 - If the cable will be used indoor/outdoor applications, outer cable jacket shall be black
 - Outer jacket : PVC or LSZH (Low Smoke Zero Halogen)
- The identification code and number is printed on the sub-unit jacket every 10 cm (eg. SM#1, SM#2)



Color of Buffer

01 - Blue	07 - Red	13 - Blue / Black dash	19 - Red / Black dash
02 - Orange	08 - Black	14 - Orange / Black dash	20 - Black / White dash
03 - Green	09 - Yellow	15 - Green / Black dash	21 - Yellow / Black dash
04 - Brown	10 - Violet	16 - Brown / Black dash	22 - Violet / Black dash
05 - Grey	11 - Pink	17 - Grey / Black dash	23 - Pink / Black dash
06 - White	12 - Aqua	18 - White / Black dash	24 - Aqua / Black dash

Mechanical Characteristic

Storage Temperature : -40 to +75 $^{\circ}$ C / Operating Temperature : -20 to +70 $^{\circ}$ C

Construction	Fiber Count	Nominal Diameter		Nominal Weight		Maximum Tensile Load		Crush Load		Minimum Bend Radius			
		[mm]	[inch]	[kg/km]	[lb/kt]	Short Term [N]	Long Term [N]	Short Term [N/cm]	Long Term [N/cm]	Loaded [mm]	Installed [mm]	Loaded [inch]	Installed [inch]
Single Unit	2	4.5	0.18	25	0.06	660	300	35	13	90	3.54	45	1.79
	4	5.3	0.21	30	0.07	660	300	35	13	106	4.17	53	2.11
	6	5.7	0.22	35	0.08	660	300	35	13	114	4.49	57	2.27
	8	6	0.24	40	0.09	660	300	35	13	120	4.72	60	2.39
	12	6.7	0.26	50	0.11	660	300	35	13	134	5.28	67	2.67
	16	8.5	0.33	80	0.18	1320	660	50	13	170	6.69	85	3.38
	18	8.9	0.35	82	0.18	1320	660	50	25	178	7.01	89	3.54
6 Fiber Subunits	24*	13.9	0.55	180	0.40	1320	660	50	25	278	10.94	139	5.53
12 Fiber Subunits	48	18.3	0.72	295	0.65	1320	660	50	25	366	14.41	183	7.28

*Single mode 24fiber cable is subunit Construction only

Transmission Performance

	9/125 μ m (1310/1550nm)	50/125 μ m Standard (850/1300nm)	50/125 μ m Gigabit (850/1300nm)	50/125 μ m 10Gigabit (850/1300nm)	62.5/125 μ m Standard (850/1300nm)	52.5/125 μ m Gigabit (850/1300nm)
Attenuation(dB/km) Typical values	0.5/0.4	3.0/1.0	3.0/1.0	3.0/1.0	3.5/1.0	3.5/1.0
Minimum Bandwidth (MHz • km)	-	500/500	500/500	1500/500	200/500	200/500
Ethernet Link Distance (m)	10Gbps	-	-	300	-	-
	1Gbps	-	-	550/550	-	250/550

Ordering Information

LSZH RATED : FC XXX TBC NA YYY LZ XXX : OS1, OM1, OM2, OM3
 RISER RATED : FC XXX TBC NA YYY NR YYY : Number of Cores
 PLENUM RATED: FC XXX TBC NA YYY NP

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