



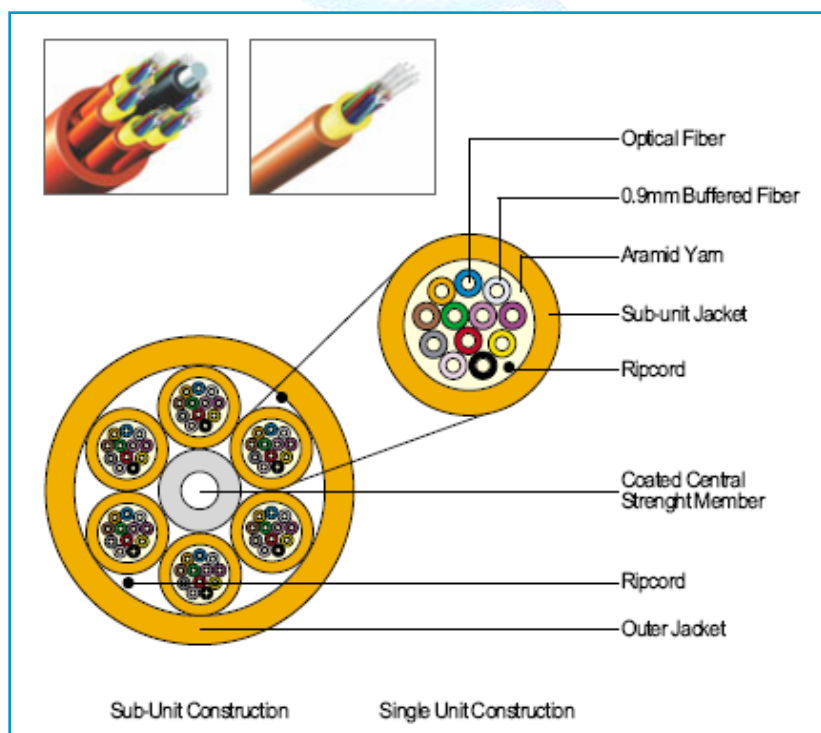
ORN



Fiber Optic Distribution Cable 900 um tight buffered glass yarn Strength member

Description / Applications

- 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) optional



Specification:

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

Colour of Buffer:

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

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Option:

- Fiber - Single mode, 50µm, 62.5µm multi mode available
- Sub-unit & Outer Jacket color
 - Single Mode : Yellow
 - 62.5/125µm 1Gbe : Orange
 - 50/125µm 1Gbe : Orange
 - 50/125µm 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)

Mechanical Characteristics:

Storage Temperature : -20 to + 70°C / Operating Temperature : -10 to + 60°C

Constuction	Fiber Count	Nominal Diameter		Nominal Weight		Maximum Tensile Load		Crush Load		Minimum Bend Radius			
		[mm]	[inch]	[kg/km]	[lb/100ft]	Short Term [N]	Long Term [N]	Short Term [N/cm]	Long Term [N/cm]	Loaded [mm]	Installed [inch]		
Single Unit	2	4.5	0.18	20	0.04	660	300	50	25	90	3.54	45	1.79
	4	5.3	0.21	25	0.06	660	300	50	25	106	4.17	53	2.11
	6	5.7	0.22	30	0.07	660	300	50	25	114	4.49	57	2.27
	8	6	0.24	35	0.08	660	300	50	25	120	4.72	60	2.39
	12	6.7	0.26	40	0.09	660	300	50	25	134	5.28	67	2.67
	16	8.5	0.33	70	0.15	1320	660	100	50	170	6.69	85	3.38
	18	8.9	0.35	75	0.17	1320	660	100	50	178	7.01	89	3.54
	24	9.8	0.39	90	0.20	1320	660	100	50	196	7.72	98	3.90
6 Fiber Subunits	24*	13.9	0.55	160	0.35	1320	660	100	50	278	10.94	139	5.53
12 Fiber Subunits	48	18.3	0.72	275	0.61	1320	660	100	50	366	14.41	183	7.28

*Single mode 24fiber cable is subunit Construction only

Transmission Performance:

	9/125µm (1310/1550nm)	50/125µm Standard (850/1300nm)	50/125µm Gigabit (850/1300nm)	50/125µm 10Gigabit (850/1300nm)	62.5/125µm Standard (850/1300nm)	52.5/125µm 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