

Fiber Optic Distribution Cable

900um 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) complied

Specification

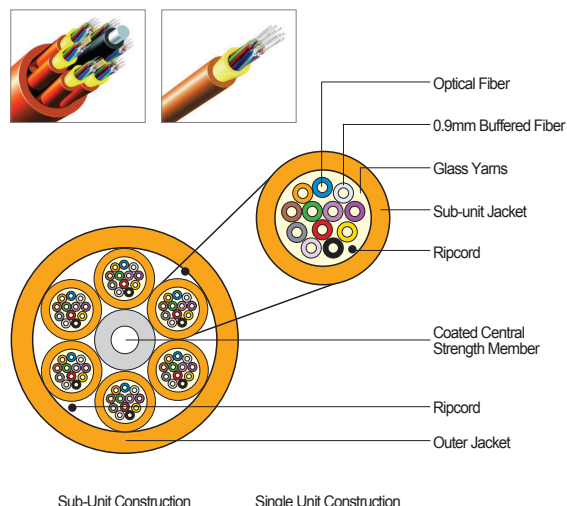
- ISO/IEC 11801
- Telcordia GR-409-CORE
- ANSI/ ICEA S-83-596

Options

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

Sub-unit Identification

The identification code & number is printed on the sub-unit jacket every 10 cm (eg. SM#1, SM#2)



Colour 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 Characteristics

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

Construction	Fiber Count	Nominal Diameter		Nominal Weight		Maximum Tensile Load		Crush Load		Minimum Bend Radius			
		[mm]	[inch]	[kg/km]	[lb/ft]	Short Term [N]	Long Term [N]	Short Term [N/cm]	Long Term [N/cm]	Loaded [mm]	Loaded [inch]	Installed [mm]	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
	24	9.8	0.39	95	0.21	1320	660	50	25	196	7.72	98	3.90
6 Fiber Sub-units	24*	13.9	0.55	180	0.40	1320	660	50	25	278	10.94	139	5.53
12 Fiber Sub-units	48	18.3	0.72	295	0.65	1320	660	50	25	366	14.41	183	7.28

* Single mode 24fiber cable is sub-unit Construction only

Part No.

Example: DTMXGZ12AQ LSZH RATED : DT ☐ GZ ☐ ☐ ☐
1 2 3 1 2 3

Explanation : Distribution Type Multi Mode 3 10Gbe Glass Yarn LSZH rated 12 Core Aqua Sheath Colour

Transmission Performance

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