

FIBER INTERCONNECT PRODUCTS



Aerial Fiber Optic Cable (Max Span: 200m)

Description / Applications

- All Dielectric Self Supporting (ADSS) Cable for Aerial Application.
- Black PE jacketed cable is a UV-stabilized, water blocked cable for outdoor aerial applications.
- Loose tube design provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications.
- High modulus aramid yarns provides high tensile strength and long term reliability.

Applications

- Low-voltage transmission and distribution System (Space potential ≤ 12 kV)
- Railways and Telecommunications pole route.
- Suitable for all type of aerial lines

Specifications

- IEC 60793 / IEC 60794, ITU-T G652D
- Telcordia GR-20-CORE

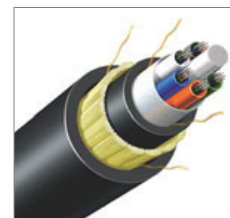
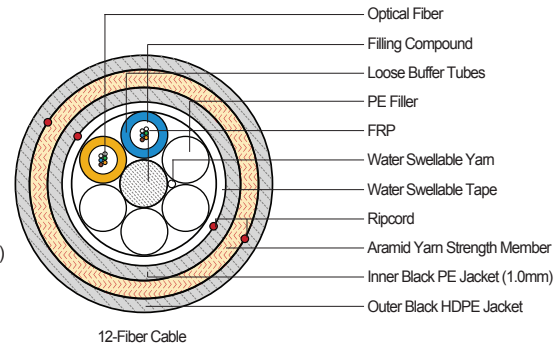
Color Identification

01 - Blue	05 - Slate	09 - Yellow
02 - Orange	06 - White	10 - Violet
03 - Green	07 - Red	11 - Pink
04 - Brown	08 - Black	12 - Aqua

Mechanical Characteristics

Storage Temperature : -40 to + 80° C / Operating Temperature : -30 to + 70° C

Fiber Count	Nominal* Outer diameter		Nominal* Weight		Maximum Tensile Load			Crush Load				Minimum Bend Radius				
	[mm]	[inch]	[kg/km]	[lb/1000ft]	Short Term [N]	Long Term [N]	Long Term [lb]	Short Term [N/cm]	Short Term [lb/inch]	Long Term [N/cm]	Long Term [lb/inch]	Loaded [cm]	Installed [cm]	Loaded [inch]	Installed [inch]	
6	12.8	0.50	125	84	2,700	125	220	125	220	125	110	63	25.6	10.08	12.8	5.04
12	12.8	0.50	125	84	2,700	125	220	125	220	125	110	63	25.6	10.08	12.8	5.04
24	12.8	0.50	125	84	2,700	125	220	125	220	125	110	63	25.6	10.08	12.8	5.04
36	12.8	0.50	125	84	2,700	125	220	125	220	125	110	63	25.6	10.08	12.8	5.04
48	13.3	0.52	135	91	2,700	125	220	125	220	125	110	63	26.6	10.47	13.3	5.24
72	13.3	0.52	135	91	2,700	125	220	125	220	125	110	63	26.6	10.47	13.3	5.24
96	14.6	0.57	160	107	2,700	125	220	125	220	125	110	63	29.2	11.50	14.6	5.75
144	17.5	0.69	230	154	2,700	125	220	125	220	125	110	63	35.0	13.78	17.5	6.89
216	18.4	0.72	245	165	2,700	125	220	125	220	125	110	63	36.8	14.49	18.4	7.24
288	20.4	0.80	300	201	2,700	125	220	125	220	125	110	63	40.8	16.06	20.4	8.03



36-Fiber Cable

Transmission Performance ^{1310nm / 1550nm}

Max. Attenuation	(dB/km)	0.35 / 0.25
Max. Dispersion	(ps/nm-km)	3.5 / 18
Max. PMD	(ps/√ km)	0.2
Max. Field Diameter	(um)	92 ± 0.4/10.5 ± 1.0

Ordering Information

FC-OS1-MLT-ADSS2-YYY-LZ
FC-OS1-MLT-ADSS2-YYY-PE

XXX : OS1, OM1, OM2, OM3
YYY : Number of Cores

Standard Reel Length 4000m

*Other Cable lengths may be available upon request

Loading / Sag Estimation

Items	NESCS Condition Code	Unit	Loading Estimation Medium					
			Fiber Counts	6~36	48~72	96	144	216
Installation	Load	kg(lb)	302	328	403	571	6.3	753
	Sag	m(ft)	2.0	2.0	2.0	2.0	2.0	2.0
Every Day Stress	Load	kg(lb)	292	316	388	552	586	733
	Sag	m(ft)	2.1	2.1	2.1	2.1	2.1	2.1
Max. Operating Stress	Load	kg(lb)	558	590	667	841	903	1050
	Sag	m(ft)	6.2	6.1	5.8	5.4	5.2	4.9
Max. Sag	Vertical	m(ft)	6.1	6.0	5.8	5.4	5.3	5.1
	Horizontal	m(ft)	4.5	4.4	4.1	3.6	3.6	3.3