

BLACK-STONE ADSS MLT Fiber Optic Cable

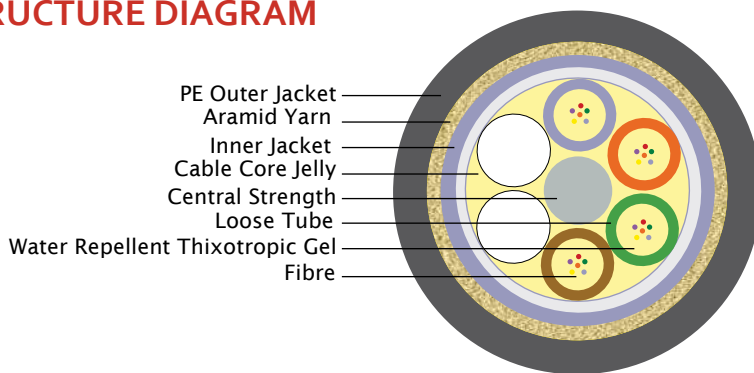


BLACKSTONE All Dielectric Self-Supporting Multi Loose Tube (MLT) cables are constructed of fibers inside gel filled central loose tubes, wrapped around an FRP central strength member. This is encased in a PE inner jacket, aramid yarns and a PE outer jacket.

FEATUERS

- Round construction is ideal for minimum wind drag and ice build-up
- High tensile strength
- Wide operating temperature range: -40°C - +70°C
- Lightweight, all-dielectric construction is ideal for use near electrical power lines and in areas of frequent lightning strikes

STRUCTURE DIAGRAM



APPLICATION

- Suitable for installation on poles and on the power distribution network



Rodent Resistant



External Use



Installation Temperature Min0°C



Water Resistant

STANDERD

Tested to meet or exceeds TIA/EIA-455-85A, TIA/EIA-455-25C, TIA/EIA-455-37A, TIA/EIA-455-33B, GR-20-CORE, GR-409-CORE, ICEA S-87-640, ICEA S-104-696, ICEA S-83-596

Mechanical Characteristics Cable

DESCRIPTION		3-Core	6-Core	8-Core	10-Core	12-Core	16-Core	18-Core	21-Core	24-Core	24-Core	31-Core
Span(m)		100	200	300	400	500	600	700	800	900	1000	1200
Outer Diameter(mm)		11.6	12.0	12.3	12.5	12.8	13.8	14.2	14.5	14.8	15.1	15.5
Weight(kg) PE Jacket		124.2	131.1	136.3	141.4	146.5	165.9	172.6	179.2	185.8	192.3	202.1
Cross Sectional Area(mm ²)		105.68	112.70	117.90	123.07	128.19	150.21	157.40	164.55	171.65	178.70	189.20
Area Of Strength Member(mm ²)		5.67	10.20	13.62	17.02	20.43	26.10	30.64	35.18	39.72	44.26	51.07
RTS (KN)		8.50	15.30	20.40	25.50	30.60	39.10	45.90	52.70	59.50	66.30	76.50
MOTS (KN)		3.40	6.12	8.16	10.20	12.24	15.64	18.36	21.08	23.80	26.52	30.60
EDS (KN)		2.13	3.83	5.10	6.38	7.65	9.78	11.48	13.18	14.88	16.58	19.13
Ultimate Exceptional Stress (KN)		5.10	9.18	12.24	15.30	18.36	23.46	27.54	31.62	35.70	39.78	45.90
Modulus (KN/mm)		8.44	12.52	15.27	17.79	20.11	21.71	24.02	26.13	28.07	29.86	32.31
Thermal Expansion Coefficient (10 ⁻⁶ /°C)		9.32	5.28	3.78	2.80	2.12	1.42	0.99	0.67	0.41	0.20	-0.05
Crush Strength	Operation(N/10cm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Installation(N/10cm)	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Safety Factor		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Min. Bend Radius	Operation (mm)	174	180	185	188	192	207	213	218	222	227	233
	Installation (mm)	290	300	308	313	320	345	355	363	370	378	388
Temperature	Installation (°C)	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60
	Transport (°C)	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
	Operation (°C)	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
	PE Jacket	0.72	0.84	1.06	1.28	1.47	1.57	1.63	1.71	1.78	1.87	2.18

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TRANSMISSION PERFORMANCE

Multimode					
Fiber Core Diameter (µm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Performance Option Code	30	31	80	90	91
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	2.8/1.0	2.8/1.0	2.8/1.0	2.8/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/600	1000/600	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	2000/-	4700/-	5350/-
Single-mode					
Fiber Category	G.652.D		G.657.A2/G.657.B2 (OS2)		
Performance Option Code	31		31		
Wavelengths (nm)	1310/1383/1550		1310/1383/1550		
Maximum Attenuation (dB/km)	0.65/0.65/0.5		0.65/0.65/0.5		

PART NUMBER

Description	Single Mode	OM1	OM2	OM3	OM4	OM4+
BLACK-STONE ADSS MLT Fiber cable, PE	BSADSS^OS2**BL-PE	BSADSS^OM1**BL-PE	BSADSS^OM2**BL-PE	BSADSS^OM3**BL-PE	BSADSS^OM4**BL-PE	BSADSS^OM4+**BL-PE

^ is the Span

** is the fiber count between 3 & 31