

BLACK-STONE Multi Loose Tube CST Fiber Cable

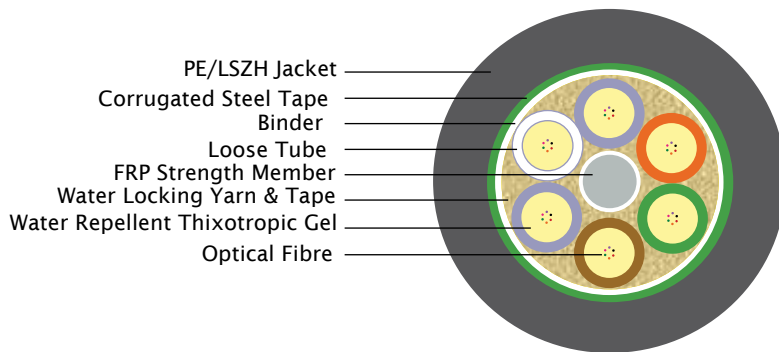


BLACKSTONE The multi loose tube cable construction consists of up to up to 12 elements and a maximum of 144, 250 µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a jacketed Fibre Reinforced Plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking e-glass non metallic strength members with ripcord. Corrugated Steel Tape (CST) armouring and black High Density Polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket.

FEATUERS

- High crush resistance
- High water resistant
- PE jacket for environmental protection and water permeation resistance
- Flame retardant LSZH jacket option for enhanced fire performance
- Colour coded fibres for easy identification

STRUCTURE DIAGRAM



APPLICATION

- Suitable for external & aerial applications



Fire Retardant



Internal Use



Installation Temperature Min0°C



Rodent Resistant



Water Resistant



External Use

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

COLOR IDENTIFICATION

The color code of the fibers and loose tube will be in identification in accordance with the following color sequence, other color sequence is also available . the color off the filler will be natural .

NO.	1	2	3	4	5	6
COLOR	Blue	Orange	Green	Brown	Gray	White
NO.	7	8	9	10	11	12
COLOR	Red	Black	Yellow	Violet	Pink	Turquoise

Mechanical Characteristics Cable

DESCRIPTION	24 to 60-CORE LSZH	70-CORE LSZH	96-CORE LSZH	120-CORE LSZH	144-CORE LSZH
Outer Diameter	12.0 ±0.4mm	12.0 ±0.4mm	14.1 ±0.4mm	15.6±0.4mm	17.1 ±0.4mm
Weight	166kg	173kg	207kg	243kg	284kg
Max. Load (installation)	1500	1500	1500	1500	1500
Max. Load (installed)	600	600	600	600	600
Min. Bend Radius(installation)	240	252	280	320	340
Min. Bend Radius(installed)	120	126	140	160	170
Operating Temp.	-20~+70 °C	-20~+70 °C	-20~+70 °C	-20~+70 °C	-20~+70 °C
Storage Temp.	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
Installation Temp.	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
Crush Resistance	3000	3000	3000	3000	3000

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 Multi Loose Tube CST Cable, LSZH	BSLTMCTAOS2**BL-LSZH	BSLTMCTAOM1**BL-LSZH	BSLTMCTAOM2**BL-LSZH	BSLTMCTAOM3**BL-LSZH	BSLTMCTAOM4**BL-LSZH	BSLTMCTAOM4+**BL-LSZH
BLACK-STONE Multi Loose Tube CST Cable, PE	BSLTMCTAOS2**BL-PE	BSLTMCTAOM1**BL-PE	BSLTMCTAOM2**BL-PE	BSLTMCTAOM3**BL-PE	BSLTMCTAOM4**BL-PE	BSLTMCTAOM4+**BL-PE

** is the fiber count between 24 & 144

NOTE: Other diameters are available upon request.