

BLACK-STONE Multi Loose Tube Fiber Optic Cable

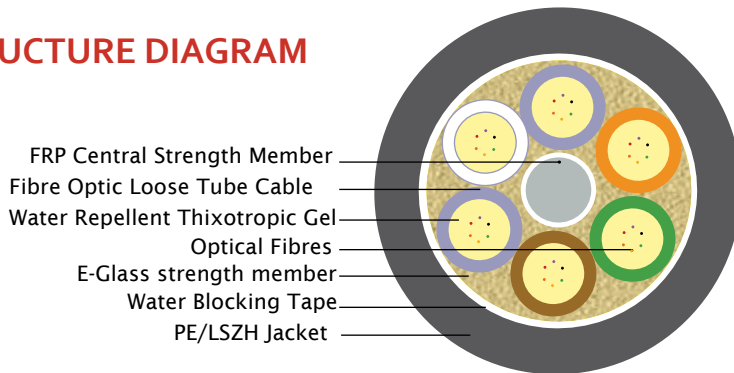


BLACKSTONE Up to 144 fibre, 5 to 12 element dry core OM1, OM2, OM3, OM4 multi-mode or OS1/OS2 (ITU-T G.652D) singlemode 250µm multi loose tube rodent resistant external duct cables with e-glass strength members, and high density polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket. The multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking e-glass non metallic strength members with ripcord and black high density polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket.

FEATUERS

- Compact 250µm loose tube construction
- 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



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

APPLICATION

- Suitable for external duct applications
- Suitable for applications where environmental resistance is required



Fire Retardant



Internal Use



Installation Tempreture 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

Mechanical Characteristics Cable

DESCRIPTION	24 to 60-CORE LSZH	70-CORE LSZH	96-CORE LSZH	120-CORE LSZH	144-CORE LSZH
Outer Diameter	10.5 ±0.4mm	11.1 ±0.4mm	12.6 ±0.4mm	14.1 ±0.4mm	15.6 ±0.4mm
Weight	90kg	97kg	121 kg	148kg	178kg
Max. Load (installation)	1500	1500	1500	1500	1500
Max. Load (installed)	600	600	600	600	600
Min. Bend Radius(installation)	210	220	250	280	310
Min. Bend Radius(installed)	105	110	125	140	155
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	2000	2000	2000	2000	2000

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 Fiber Optic Cable, LSZH	BSLTMOS2**BL-LSZH	BSLTMOM1**BL-LSZH	BSLTMOM2**BL-LSZH	BSLTMOM3**BL-LSZH	BSLTMOM4**BL-LSZH	BSLTMOM4+**BL-LSZH
BLACK-STONE Multi Loose Tube Fiber Optic Cable, PE	BSLTMOS2**BL-PE	BSLTMOM1**BL-PE	BSLTMOM2**BL-PE	BSLTMOM3**BL-PE	BSLTMOM4**BL-PE	BSLTMOM4+**BL-PE

** is the fiber count 24 & 144

NOTE: Other diameters are available upon request.