

BLACK-STONE Dry Multi Loose Tube

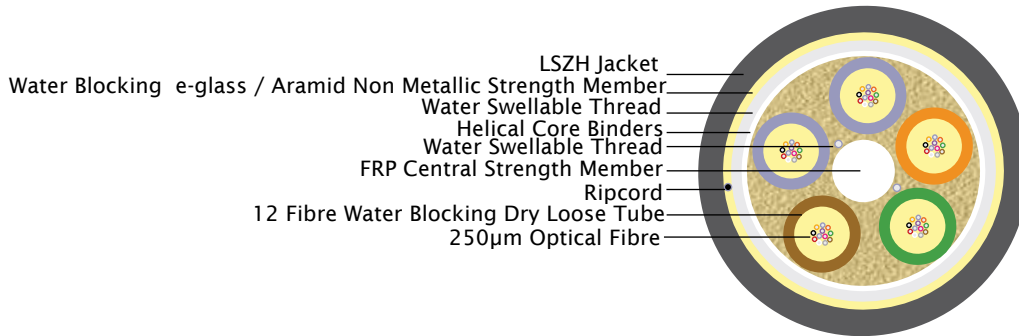


BLACKSTONE Multi Loose Tube up to 12 element internal/external multi loose tube cable construction consists of up to 144, 250 µm optical fibres in 12 fibre waterblocked dry loose tubes with fillers where appropriate. The tubes are SZ stranded around an LSZH jacketed fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking E-glass or aramid non-metallic strength members with ripcord and LSZH jacket.

FEATUERS

- E-glass yarn for rodent resistance
- Compact 250 µm dry loose tube construction
- Flame retardant LSZH jacket option for enhanced fire performance
- Colour coded fibres for easy identification

STRUCTURE DIAGRAM



APPLICATION

- Ideal for internal/external duct applications
- Suitable for one or both end pre termination



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

JACKET COLOR

- OS2 (YELLOW)
- OM1 (ORANGE)
- OM2 (ORANGE)
- OM3 (AQUA)
- OM4 (AQUA)
- OM5 (GREEN)

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	72 CORE	96 CORE	144 CORE
Outer Diameter	9.6 ±0.4mm	10.3 ±0.4mm	11.5 ±0.4mm	14.2 ±0.4mm
Weight	96kg	104kg	127kg	190kg
Max. Load (installation)	1500	1500	1500	1500
Max. Load (installed)	600	600	600	600
Min. Bend Radius(installation)	190	206	230	280
Min. Bend Radius(installed)	95	103	115	140
Fire Performance	LSZH	LSZH	LSZH	LSZH
Operating Temp.	-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
Installation Temp.	-20~+60 °C	-20~+60 °C	-20~+60 °C	-20~+60 °C
Crush Resistance	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 Dry Multi Loose Tube aramid, LSZH	BSDMLTOS2A**YL-LSZH	BSDMLTOM1A**OR-LSZH	BSDMLTOM2A**OR-LSZH	BSDMLTOM3A**AQ-LSZH	BSDMLTOM4A**AQ-LSZH	BSDMLTOM4+A**AQ-LSZH
BLACK-STONE Dry Multi Loose Tube E-Class, LSZH	BSDMLTOS2**YL-LSZH	BSDMLTOM1**OR-LSZH	BSDMLTOM2**OR-LSZH	BSDMLTOM3**AQ-LSZH	BSDMLTOM4**AQ-LSZH	BSDMLTOM4+A**AQ-LSZH

** is the fiber count between 24 & 144

NOTE: Other diameters are available upon request.