

BLACK-STONE Multi Loose Tube Double Jacket Fiber Cable

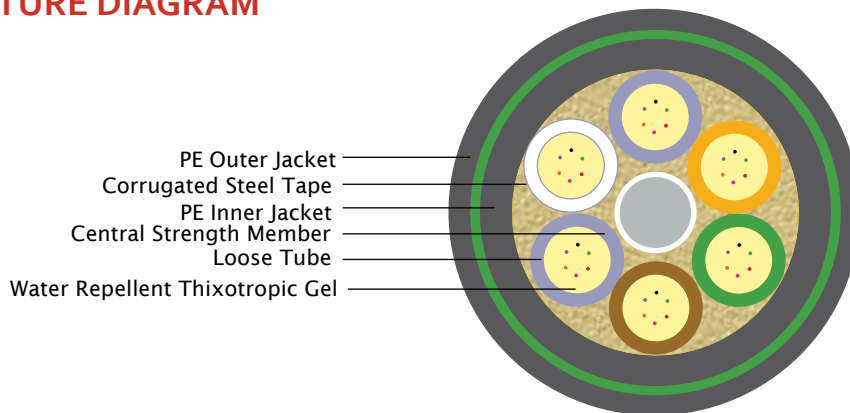


BLACKSTONE multi loose tube cable construction consists of up to 12 elements and a maximum of 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking e-glass non-metallic strength members with ripcord and PE inner jacket, corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) final jacket with ripcord.rip cord.

FEATUERS

- Good mechanical,temperature performance and fire resistant property
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber
- Good crush resistance and flexibilit
- The following measures are taken to ensure the cable watertight
- Single Fiber Reinforced Plastic as the central strength member
- Loose tube filling compound
- 100% cable core filling
- PSP enhancing moisture-proof
- Water-blocking material

STRUCTURE DIAGRAM



APPLICATION

- Indoor distribution
- Interconnect from outdoor to indoor for optical cable distribution



Fire Retardant



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 | 70-CORE | 96-CORE | 120-CORE | 144-CORE LSZH |
|--------------------------------|---------------|-------------|-------------|-------------|---------------|
| Outer Diameter | 14.0 ±0.5mm | 14.6 ±0.5mm | 16.1 ±0.5mm | 17.6 ±0.5mm | 19.1 ±0.5mm |
| Weight | 210kg | 219kg | 257kg | 298kg | 343kg |
| Max. Load (installation) | 1500 | 1500 | 1500 | 1500 | 1500 |
| Max. Load (installed) | 600 | 600 | 600 | 600 | 600 |
| Min. Bend Radius(installation) | 280 | 290 | 320 | 350 | 380 |
| Min. Bend Radius(installed) | 140 | 145 | 160 | 175 | 190 |
| 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 | 4000 | 4000 | 4000 | 4000 | 4000 |

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 Double Jacket, PE | BSLTDMOS2**BL-PE | BSLTDMOM1**BL-PE | BSLTDMOM2**BL-PE | BSLTDMOM3**BL-PE | BSLTDMOM4**BL-PE | BSLTDMOM4**BL-PE |

** is the fiber count between 24 & 144

NOTE: Other diameters are available upon request.