

BLACK-STONE Aerial Cable Figure 8 Fiber Optic Cable

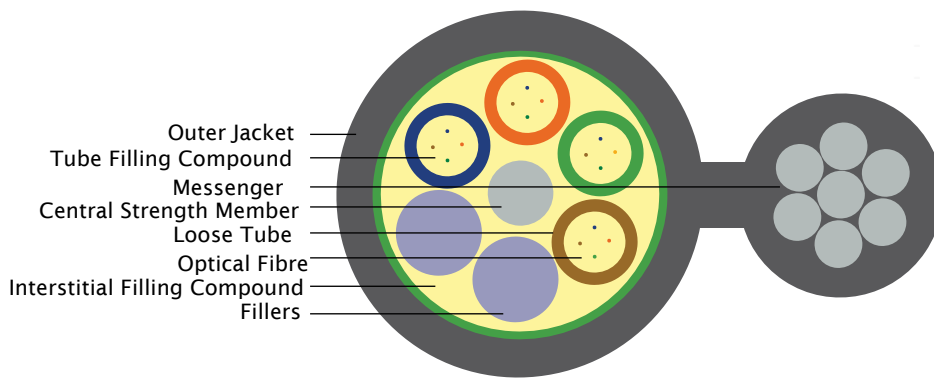


BLACKSTONE figure of 8 aerial cable, for spans up to 70m, consists of 250µm optical fibres in gel filled loose tubes with interstitial gel. Water barrier aluminium tape or steel tape armouring options are available. Tensile strength is provided by a steel messenger wire. The cable jacket is black high density polyethylene (HDPE).

FEATUERS

- Up to 144 fibres with single or multimode options available
- The loose tube stranding technology make the fibres have good secondary excess length and allow the fibres free movement in the tube, which keeps the fibre stress free while the cable is subjected to longitudinal stre
- Aluminium moisture barrier tape and corrugated steel tape options
- Stranded wires as self supporting member providing excellent strain performance and convenient installation

STRUCTURE DIAGRAM



APPLICATION

- The figure of 8 cables are suitable for installation in aerial environments for long haul communication



Rodent Resistant



External Use



Installation Temperature Min 0°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 | 2-30 | 32-36 | 38-60 | 2-30 | 32-36 | 38-60 | 2-30 | 32-36 | 38-60 | 2-30 | 32-36 | 38-60 |
|-------------------------------|--|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Stranded Wire | 1x7-3.0 | 1x7-3.0 | 1x7-3.0 | 1.2x7-3.6 | 1.2x7-3.6 | 1.2x7-3.6 | 1.4x7-4.2 | 1.4x7-4.2 | 1.4x7-4.2 | 2.0x7-6.0 | 2.0x7-6.0 | 2.0x7-6.0 |
| Cable Diameter (mm) | 10.1 | 10.8 | 11.6 | 10.1 | 10.8 | 11.6 | 10.1 | 10.8 | 11.6 | 10.1 | 10.8 | 11.6 |
| Messenger Cable Diameter (mm) | 5.2 | 5.2 | 5.2 | 5.8 | 5.8 | 5.8 | 6.4 | 6.4 | 6.4 | 8.2 | 8.2 | 8.2 |
| Cable Height (mm) | 18.3 | 19.0 | 19.9 | 18.9 | 19.6 | 20.5 | 19.5 | 20.2 | 21.1 | 21.3 | 22 | 22.9 |
| Cable Weight(kg) | 127 | 147 | 152 | 130 | 150 | 155 | 132 | 152 | 158 | 140 | 160 | 165 |
| Min. Bend Radius | 10 times cable diameter 20 times cable diameter | | | | | | | | | | | |
| Max. Running Tension | 4950 | 4950 | 4950 | 7100 | 7100 | 7100 | 9700 | 9700 | 9700 | 19700 | 19700 | 19700 |
| Safe Running Tension | 2500 | 2500 | 2500 | 3500 | 3500 | 3500 | 4800 | 4800 | 4800 | 9800 | 9800 | 9800 |
| Min. Breaking Tension | 7990 | 7990 | 7990 | 10710 | 10710 | 10710 | 14580 | 14580 | 14580 | 27720 | 27720 | 27720 |
| Max Crush Loading | Short Term | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | Long Term | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

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 Aerial Cable Figure 8, PE | BSAF^OS2**BL-PE | BSAF8^OM1**BL-PE | BSAF8^OM2**BL-PE | BSAF8^OM3**BL-PE | BSAF8^OM4**BL-PE | BSAF8^OM4+**BL-PE |

^ is the stranded wire diameters

** is the fiber count between 2 & 60

NOTE: Other diameters are available upon request.