

BLACK-STONE Armoured Direct Burial Cable

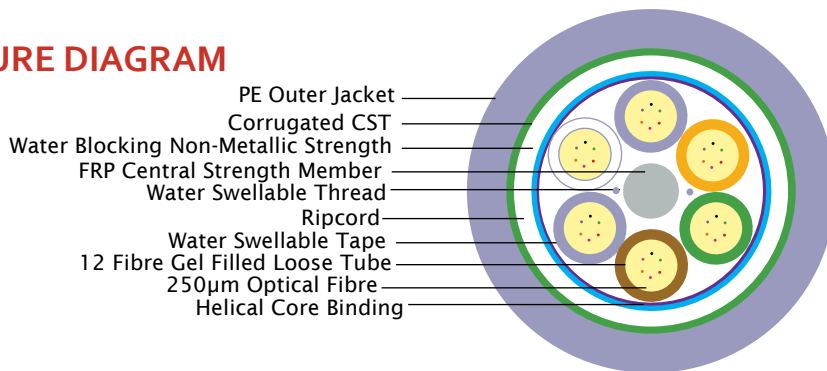


BLACKSTONE multi element multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with water-swellable threads and water swellable tape. Helically applied non-metallic strength members with ripcord. Corrugated steel tape armouring and black high density polyethylene (HDPE) jacket.

FEATUERS

- Step layer stranded construction (up to 144 fibres)
- Corrugated steel tape as protection against rodents and mechanical damage
- Thin and robust cable
- Dry core construction
- PE- Jacket
- Wrapped in water blocking tape
- Filled loose tube

STRUCTURE DIAGRAM



APPLICATION

- Direct burial
- Used in application with high mechanical loads



Rodent Resistant



External Use



Installation Temperature
Min0°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 | 12-Cores | 24-Cores | 36-Cores | 48-Cores | 60-Cores | 72-Cores | 96-Cores | 120-Cores | 144-Cores |
|---------------------------------------|--|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Cable Diameter (mm) | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 13.8 | 15.4 | 17.1 |
| Cable Weight(kg) | 91 | 91 | 91 | 91 | 91 | 91 | 125 | 155 | 190 |
| Max. Tensile Load during installation | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |
| Fibers per loose tube | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Number of loose buffer tube | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| Number of standing elements | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Min. Bend Radius | 20x cable outer diameter (during laying and installation) 15x cable outer diameter (installed) | | | | | | | | |
| Installation Temperature Range | -5~+50C | -5~+50C | -5~+50C | -5~+50C | -5~+50C | -5~+50C | -5~+50C | -5~+50C | -5~+50C |
| Operation Temperature Range | -30~+70C | -30~+70C | -30~+70C | -30~+70C | -30~+70C | -30~+70C | -30~+70C | -30~+70C | -30~+70C |
| Temp. Range Transportation | -40~+70C | -40~+70C | -40~+70C | -40~+70C | -40~+70C | -40~+70C | -40~+70C | -40~+70C | -40~+70C |

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 Armored Direct Burial Cable, PE | BSADBOS2**BL-PE | BSADBOM1**BL-PE | BSADBOM2**BL-PE | BSADBOM3**BL-PE | BSADBOM4**BL-PE | BSADBOM4+**BL-PE |

** is the fiber count between 12 & 144

NOTE: Other diameters are available upon request.