

# Fiber Optic Cable

FOR VOICE AND DATA TRANSMISSION

## Outdoor

10mm+ (double protection)

PN: \\BSCF-\*-\*

Infrastone Central Loose Tube Cable is an economical option for low fiber count installations. The central tube design consists of one Thermoplastic PBT buffer tube encasing individually colored fibers. These fibers are surrounded by gel for moisture resistance. The central buffer tube is also surrounded by water swellable fiberglass yarn for overall water resistance and added strength. It is also available in a corrugated steel armor. Central Tube Cables are available in all grades of multimode and single mode .glass up to 48 fibers

- Up to 12 core 1 central tube
- 24 core = 2 central tubes
- 48 core = 4 central tubes

### Outdoor fiber optic cable Parallel Steel Wires Central Loose Tube

#### Construction:

**Fiber:**

- 2-12 fibers 1 Tube
- 24 fibers 2 tubes , 48 fibers 4tubes
- Central tube gel-filled
- Color-coding per TIA/EIA 598 B

**Outer Jacket: 10mm+ (double protection)**

- Black UV- and moisture-resistant polyethylene
- Sequential footage or Meter markings

**Aarmor:**

- Corrugated coated steel tape
- Parallel Steel Wires

#### Applications:

- Broadband network
- Installed in ducts, underground conduits, aerial/lashed or direct buried
- FTTH

**Compliances:**

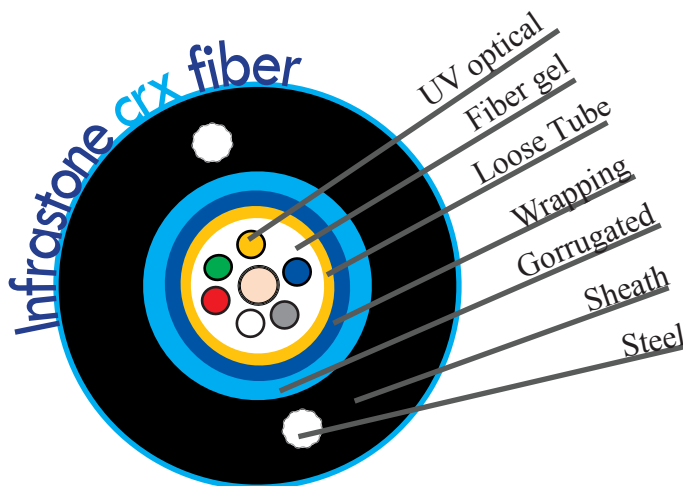
- Tested in accordance EIA/TIA-455 FOTPs
- GR-20
- RoHS Compliant Directive 2002/95/EC

#### Features:

- Compact, user-friendly design
- Central tube armored design provides excellent fiber protection
- Easy to install
- Multi Tube

**Performance:**

- Temperature:  
Storage -40°C (-40°F) to +75°C (+167°F)  
Installation -30°C (-22°F) to +60°C (+140°F)  
Operating -40°C (-40°F) to +70°C (+158°F)
- Minimum Bend Radius:  
20 X OD—Installation  
10 X OD—In-Service
- Maximum Crush Resistance:  
150 lbs/in (440 N/cm)



Infrastone designs (containing singlemode and multimode fiber) and composite designs

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### Outdoor fiber optic cabl Parallel Steel Wires Central Loose Tube

#### OUTDOOR

Fiber Count	Outside Diameter		Weight		Short Term		Long Term		Max. Load (Installation)	
	mm	in.	kg/km	lbs/M'	cm	in.	cm	in.	Newtons	lbs.
2	10+	.395+	52	35	16.5	6.5	12.45	4.9	2700	600
4	10+	.395+	52	35	16.5	6.5	12.45	4.9	2700	600
6	10+	.395+	52	35	16.5	6.5	12.45	4.9	2700	600
8	10+	.395+	52	35	16.5	6.5	12.45	4.9	2700	600
10	10+	.395+	52	35	16.5	6.5	12.45	4.9	2700	600
12 up to 24	10+	.395+	52	35	16.5	6.5	12.45	4.9	2700	600

#### OUTDOOR ARMORED

Fiber Count	Outside Diameter		Weight		Short Term		Long Term		Max. Load (Installation)	
	mm	in.	kg/km	lbs/M'	cm	in.	cm	in.	Newtons	lbs.
2	10.41	.410	101	68	20.8	8.2	15.6	6.15	2700	600
4	10.41	.410	101	68	20.8	8.2	15.6	6.15	2700	600
6	10.41	.410	101	68	20.8	8.2	15.6	6.15	2700	600
8	10.41	.410	101	68	20.8	8.2	15.6	6.15	2700	600
10	10.41	.410	101	68	20.8	8.2	15.6	6.15	2700	600
12 up to 24	10.41	.410	101	68	20.8	8.2	15.6	6.15	2700	600

For "X" in part number see optical characteristics below.

### Optical Characteristics

Meets or exceeds ISO/IEC 11801

	OM1	OM1	OM2	OM3	OM4	
Grade	2	3	4	5	6	SM2
<b>Glass Type</b>	62.5/125 MM AdvanceLite	62.5/125 MM AdvanceLite	50/125 MM AdvanceLite	50/125 MM AdvanceLite	50/125 MM AdvanceLite	Single-Mode Enhanced <sup>®</sup>
<b>Part Number BSCF-**-CORE TYPE-2 to 48</b>	CR	CRX	CF	CL	E	W
<b>Operating Wavelength (nm)</b>	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1550
<b>Min. OFL<sup>1</sup> Bandwidth (MHz-km)</b>	200/500	200/500	500/500	1500/500	3000/500	—
<b>Min. Laser<sup>2</sup> Bandwidth (MHz-km)</b>	220/500	385/500	510/500	2000/500	4700/500	—
<b>Max. Attenuation Tight Buffered (dB/km)</b>	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	0.80/0.50
<b>100 Mbit Fast Ethernet Min. Link Length (meters S/L/E<sup>3</sup>)</b>	300/2000	300/2000	300/2000	300/2000	300/2000	5000/—
<b>1 Gigabit Ethernet Min. Link Length (meters S/L/E<sup>3</sup>)</b>	300/550	500/1000	600/600	1000 <sup>4</sup> /600	1000 <sup>4</sup> /600	5000/—
<b>10 Gigabit Ethernet Min. Link Length (meters S/L/E<sup>3</sup>)</b>	33/300	33/300	82/300	300/300	550/300	10,000/40,000

OFL – Overfilled Launch

Effective Modal Bandwidth, determined by RML or DMD performance specifications

S/L/E – Short wavelength (850 nm) / Long wavelength (1310 nm) / Extra long wavelength (1550 nm)

<sup>4</sup>>2000 meters for engineered links

Low water peak Single-Mode suitable for CWDM use complies with ITU G.652.c/d