Fiber Optic Cable

FOR VOICE AND DATA TRANSMISSION

Outdoor

Outdoor fiber optic cabl
Parallel Steel Wires Central Loose Tube

Infrastone Central Loose Tube Cable is an econimical option for low fiber count installtions. The central tube design consists of one Thermoplastic PBT buffer tube encasing individually colores 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 12 fibers

Construction:

Fiber:
- 2–12 fibers
- Central tube gel-filled
- Color-coding per TIA/EIA 598 B

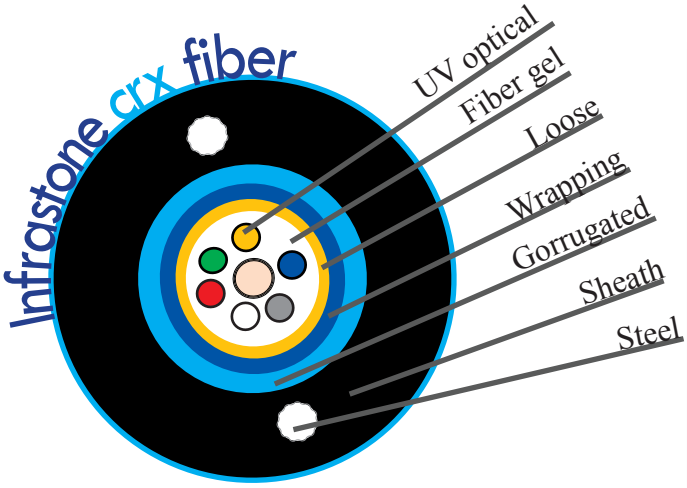
Outer Jacket:
- Black UV- and moisture-resistant polyethylene
- Sequential footage or Meter markings

Armor:
- Corrugated coated steel tape
- Parallel Steel Wires

Applications:

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

Compliances:
- Tested in accordance with 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

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)
Sequential meter markings available upon request

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

Fiber Optic Cable

FOR VOICE AND DATA TRANSMISSION

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	8.26	.325	52	35	16.5	6.5	12.45	4.9	2700	600
4	8.26	.325	52	35	16.5	6.5	12.45	4.9	2700	600
6	8.26	.325	52	35	16.5	6.5	12.45	4.9	2700	600
8	8.26	.325	52	35	16.5	6.5	12.45	4.9	2700	600
10	8.26	.325	52	35	16.5	6.5	12.45	4.9	2700	600
12	8.26	.325	52	35	16.5	6.5	12.45	4.9	2700	600

OUTDOOR ARMORED +D steel

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	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**
Glass Type	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[5]
Part Number BSCF--CORE TYPE**	T	D	CRX	CL	E	W
Operating Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1550
Min. OFL[1] Bandwidth (MHz-km)	200/500	200/500	500/500	1500/500	3000/500	—
Min. Laser[2] Bandwidth (MHz-km)	220/500	385/500	510/500	2000/500	4700/500	—
Max. Attenuation Tight Buffered (dB/km)	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	0.80/0.50
100 Mbit Fast Ethernet Min. Link Length (meters S/L/E[3])	300/2000	300/2000	300/2000	300/2000	300/2000	5000/—
1 Gigabit Ethernet Min. Link Length (meters S/L/E[3])	300/550	500/1000	600/600	1000[4]/600	1000[4]/600	5000/—
10 Gigabit Ethernet Min. Link Length (meters S/L/E[3])	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)