

## Armored Fiber Optical Cable

**Part Number:** CST-090-48 F90480489B

### Applications:

Blown Installation, CATV and DataCom, Direct Burial Campus Backbone, General purpose armored Outdoor, Long Distance OSP, Outdoor Plant Duct Installation, Rugged environments

### General Construction:

The cable contains 48 SM G652D color-coded optical fibers contained in 4 color-coded loose tubes. These tubes are filled with thixotropic gel to prevent the ingress of water and are SZ stranded around a dielectric central strength member. Fillers are used as needed to preserve cable geometry. Corrugated steel armor is longitudinally applied over the fiber-glass strength yarns which reinforce the cable core. An outer jacket is extruded over the armoring.

### Outer Jacket Material:

HDPE

### Outer Diameter:

11.5 mm nom.

### Weight:

145 kg/km



## Design & Materials

<b>Buffer Material:</b>	PBT
<b>Tube Diameter:</b>	2.1 mm nom.
<b>Color Code:</b>	Per TIA/EIA 598-C
<b>Central Strength Member:</b>	FRP
<b>Cabling:</b>	SZ
<b>Strength Elements:</b>	E-Glass Yarns
<b>Armor:</b>	Yes
<b>Armoring:</b>	Corrugated Steel
<b>Armor Thickness (um):</b>	150 µm
<b>Fiber Containing Tubes:</b>	4
<b>Number of fibers:</b>	48
<b>Waterblocking:</b>	Dry Waterblocking
<b>Rip-Cord:</b>	Yes
<b>Marking:</b>	Per request

## Standards

<b>Applicable Standards:</b>	IEC 60794-1-21/22, ISO/IEC 11801-1, TIA/EIA-568
<b>Installation:</b>	Guidelines as per IEC TR 62691

## Performance

<b>Tensile Strength - Short Term:</b>	2700 N max.
<b>Tensile Strength - Long Term:</b>	1500 N max.
<b>Impact Resistance:</b>	10 N*m
<b>Impact Resistance:</b>	3 cycles
<b>Max. Crush Resistance:</b>	500 N/cm
<b>Min. Bend Radius for Installation:</b>	20xD mm
<b>Min. Bend Radius for Operation:</b>	20xD mm
<b>Repeated Bending:</b>	25 cycles
<b>Max. Operating Temperature:</b>	+70 °C
<b>Min. Operating Temperature:</b>	-40 °C
<b>Max. Storage Temperature:</b>	+70 °C
<b>Min. Storage Temperature:</b>	-40 °C
<b>UV resistance:</b>	Yes
<b>Waterblocking:</b>	Yes