CST-090-48 Corrugated steel armored Fiber Optic Cable

Part Number: **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

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

Standards

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

Performance

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