

Part Number: **F914412C3B**

Applications: Backbone cabling, Direct burial, General purpose armored Outdoor, Long Distance OSP, Rugged environments, Installed in soft bedded trenches or suitably anchored and protected on the sea-floor , Underwater/Sea Port

General Construction: The cable contains 144 Singlemode G652D color-coded optical fibers contained in 12 color-coded loose tubes. These tubes are filled with a thixotropic gel to prevent the ingress of water and SZ stranded around a dielectric central strength member. A specially formulated gel is applied between all the interstices in the cable core to block water passage. An aluminum moisture barrier is applied over the cable core beneath an inner jacket. layer of galvanized steel wires are helically stranded around the inner jacket to serve as an armor. An outer jacket completes the cable structure.

Outer Jacket Material: PE
Outer Diameter: 20 mm nom.
Weight: 650 kg/km



Design & Materials

Buffer Material:	PBT
Tube Diameter:	2.1 mm nom.
Central Strength Member:	FRP
Cabling:	SZ
Armor:	Yes
Armoring:	Served Galvanized Steel Wire
Armoring Wire Diameter:	1.25 mm
Aluminum Moisture Barrier:	Yes
Foil Thickness:	80 µm
Total Number of Elements:	12
Number of fibers:	144
Waterblocking:	Gel between tubes
Rip-Cord:	Yes
Outer Jacket Color:	Black
Marking:	Per request

Standards

Applicable Standards:	IEC 60794, TIA/EIA-568, EIA/TIA-455, ASTM G154
Flammability Rating:	IEC 60754
Installation:	Guidelines as per IEC TR 62691



Performance

Max. Installation Tensile Load :	11000 N max.
Max. Residual Tension (MRS) :	6600 N max.
Impact Resistance:	4.4 N*m
Impact Resistance:	3 cycles
Max. Crush Resistance:	800 N/cm
Min. Bend Radius for Installation:	20xD mm
Min. Bend Radius for Operation:	20xD mm
Repeated Bending:	25 cycles
Max. Operating Temperature:	+80 °C
Min. Operating Temperature:	-40 °C
Max. Installation Temperature:	+55 °C
Min. Installation Temperature:	-20 °C
Max. Storage Temperature:	+80 °C
Min. Storage Temperature:	-40 °C
UV Resistance:	Yes
Waterblocking:	Yes