

## Underwater Fiber Optic Cable

**Part Number:** **F901201U9B**

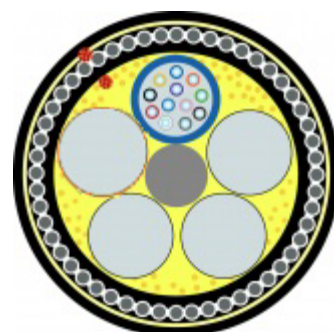


**Applications:**

Backbone cabling, General purpose armored Outdoor, Long Distance OSP, Rugged environments, Installed in soft bedded trenches or suitably anchored and protected on the sea-floor , Shallow Water Installations, Shallow Water Applications to 100 m. Depths

**General Construction:**

The cable contains 24 Singlemode color-coded optical fibers contained in 2 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. Fillers are used as needed to preserve cable geometry. Fiber-glass strength yarns reinforce the cable core beneath an inner jacket. A layer of galvanized steel wires is stranded around the inner jacket to serve as an armor. An outer jacket completes the cable structure.



**Outer Jacket Material:**

PE

**Outer Diameter:**

13.5 mm nom.

**Weight:**

292 kg/km

## Design & Materials

<b>Buffer Material:</b>	PBT
<b>Tube Diameter:</b>	2.1 mm nom.
<b>Central Strength Member:</b>	FRP
<b>Cabling:</b>	SZ
<b>Strength Elements:</b>	E-Glass Yarns
<b>Armoring:</b>	Served Galvanized Steel Wire
<b>Fiber Containing Tubes:</b>	1
<b>Total Number of Elements:</b>	6
<b>Number of fibers:</b>	12
<b>Waterblocking:</b>	Dry Waterblocking, Gel between tubes
<b>Rip-Cord:</b>	Yes
<b>Outer Jacket Color:</b>	Black
<b>Marking:</b>	Per request

## Standards

<b>Applicable Standards:</b>	IEC 60794, IEC 60794-1-21/22, TIA/EIA-568
<b>Flammability Rating:</b>	IEC 60754
<b>Installation:</b>	Guidelines as per IEC TR 62691

## Performance

<b>Max. Installation Tensile Load :</b>	6000 N max.
<b>Max. Residual Tension (MRS) :</b>	3600 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>Torsion (L=125 x d):</b>	10 cycles
<b>Drip Test:</b>	80 °C
<b>Max. Operating Temperature:</b>	+70 °C
<b>Min. Operating Temperature:</b>	-40 °C
<b>Max. Installation Temperature:</b>	+55 °C
<b>Min. Installation Temperature:</b>	-20 °C
<b>Max. Storage Temperature:</b>	+70 °C
<b>Min. Storage Temperature:</b>	-40 °C
<b>UV Resistance:</b>	Yes
<b>Waterblocking:</b>	Yes