

Loose Tube, Armored Fiber Optic Cable LDB-9-08x12-D-AP2WP-GD

1. Scope

This document specifies a loose tube fiber-optic cable with a dielectric central member. The cable contains 8 tubes with a 12 SM fibers. The cable jacket contains aluminum moisture barrier tape in an inner PE layer, two layers of stranded steel wire armor and an outer UV resistant PE sheath. The cable is designed for outdoor applications, including underwater use.

2. Cable Description

96 SM optical fibers are enclosed in 8 PBT tubes. For optical fiber characteristics information please visit us at [FiberOptic cable Catalog](#).

The tubes and fibers are color coded for easy identification (see paragraph 5 for details). The tube is filled with water blocking, thixotropic gel to prevent the ingress of water. The tube is SZ stranded around a dielectric central member to form the cable core.

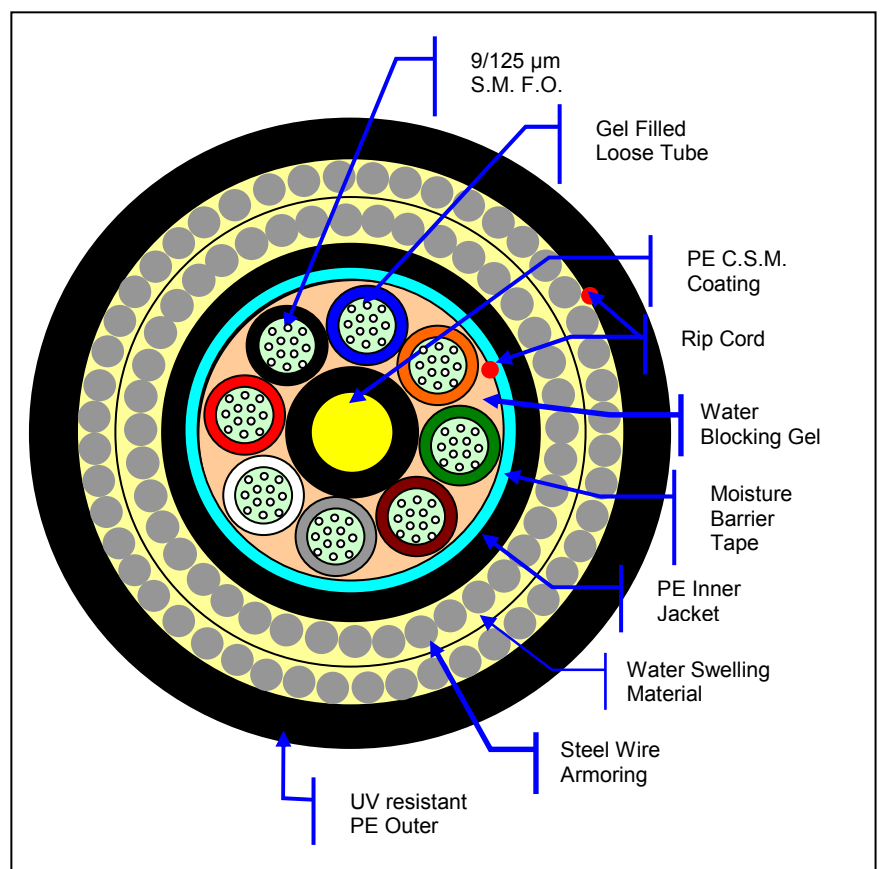
All the interstices inside the cable core are filled with a water blocking gel.

Aluminum moisture barrier is applied over the cable core covered by a PE sheath.

Two layers of Galvanized steel wires (diam. of each wire is 1.25 mm) are helically stranded over the inner jacket as strength and armoring members.

A UV resistant PE outer jacket is extruded over the steel wire strand.

Ripcord for easy jacket removal is laid under each jacket, parallel to the cable core.



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3. Nominal Dimensions and Weight

Cable Nom. Weight:	870 Kg/Km
Cable Nom. Diameter	19.5 mm.

4. Mechanical and Environmental Characteristics

TEST	DETAILED SPECIFICATIONS	TEST PROCEDURE	
		IEC-60794-1 Test Method	TIA/EIA-455 FOTP No.
Strength Tensile	40000N		
Max. Installation Tension	20000 N	E1	33
Max. Operating Tension	60% of Max. Installation Load	E1	33
Max. Compressive Loading	8000N	E3	41
Repeated Impact Testing	7 J, 3x2	E4	25
Twist Test	10 twists ($\pm 180^\circ$) on 1810 mm sample	E7	85
Minimum Bending Radius Installation Operating	290 mm 215 mm	E6	104
Installation Temp. Range	- 5°C to + 50°C		
Storage and Operating Temperature Range	- 40°C to +80°C		
Fluid Penetration	1 m Water head on 1 m sample for 24 Hrs	F5	82

5. Fiber Color Code

Color code of the fibers and the tube is as per TIA/EIA 598A.

Fiber/Tube Number	Color	Fiber/Tube Number	Color	Fiber Number	Color
1	Blue	5	Grey	9	Yellow
2	Orange	6	White	10	Violet
3	Green	7	Red	11	Pink
4	Brown	8	Black	12	Turquoise

Alternative color codes are available. Please contact us for details.

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6. Cable Marking

The cable is marked with white characters according to customer request.
The meter mark is printed every meter with an accuracy of $\pm 1\%$.