



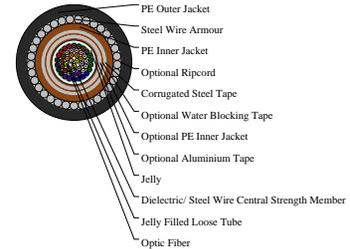
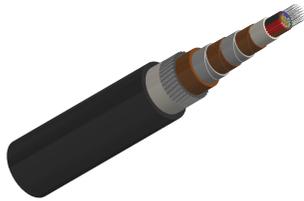
**Caledonian**

Fiber Optic Cables

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## MULTI LOOSE TUBE UNDER WATER CABLE



## APPLICATIONS

This cable exhibits excellent tensile strength and side press retardancy, having excellent mechanical and environmental performance. Featured by its thin diameter and light weight, it is best suited for underwater condition, junction communication system and long haul communication system.

Features:

Loose tube jelly filled for superior fiber protection

Colored coded fibers and binders for quick and easy identification during installation

High tensile strength design

Superior mechanical and environmental performance

Rugged and lightweight design

Durable construction to withstand high water pressure

Sufficient waterproof to withstand water penetration

## PRODUCT DESCRIPTION

The cable consists of 5 to 36 fibers containing tubes or fillers stranded in up to 3 layers around a central strength member and bound under a PE jacket. Each tube contains 4 -12 fibers. Solid or stranded steel wire coated with polyethylene is usually used as central strength member. Fiber glass reinforced plastics (FRP) will be used as central strength member if non metallic construction is required. Either aramid yarn or fiber glass is wound around the tube to provide physical protection and tensile strength. The cable incorporates the first layer of PE inner jacket, a layer of corrugated steel tape armour, the second layer of PE inner jacket, a layer of steel wire armour and PE outer jacket. An optional Aluminium moisture tape can be incorporated under the jacket for water blocking and shielding purpose. An optional ripcord is located under the jacket to facilitate jacket removal.

## STANDARDS

IEC60794-1-2

Telcordia GR-20

RUS 7 CFR 1755.900 (REA PE-90)

ICEA S 87-640

## MECHANICAL PROPERTIES

Minimum Bending Radius:

Under installation: 20XOD

During operation: 10×OD for unarmoured cables



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20×OD for armoured cables

Temperature Range:

Operating Temperature Range: -40°C(-40°F) to +70°C(+158°F)

Storage Temperature Range: -45°C(-58°F) to +70°C(+158°F)

Maximum Compressive Load:4000N for unarmoured cables

6000N for armoured cables

Repeated Impact: 4.4 N.m (J)

Twist (Torsion): 180X10 times, 125XOD

Cyclic Flexing: 25 cycles for armoured cables;

100 cycles for unarmoured cables.

Crush Resistance: 220N/cm (125lb/in)

## DIMENSION AND PARAMETERS

No. of fibres	Approx. Overall Diameter		Cable Weight		Maximum Pulling Load (Installation)	Maximum Pulling Load (In Service)
	in	mm	Lbs./Kft	kg/km		
38-72	0.991	25.2	676.51	1008	8000/1800	2650/595