Caledonian
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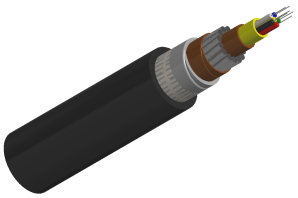
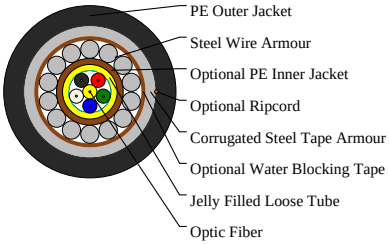
CENTRAL LOOSE TUBE UNDER WATER CABLE





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 fi lled for superior fi ber protection

Colored coded fi bers and binders for quick and easy identifi cation during installation.

High tensile strength design

Superior mechanical and environmental performance

Rugged and lightweight design

Durable construction to withstand high water pressure

Suffi cient waterproof to withstand water penetration

PRODUCT DESCRIPTION

Central loose tube cable contains one tube with 2 - 24 fibers, which is filled with water blocking gel.A water swelling tape is helically wrapped around the cable core. Either aramid yarn or fiber glass is wound around the tube to provide physical protection and tensile strength. The cable is jacketed with PE for water protection purpose. For direct burial, steel wire armour and corrugated steel tape armour are applied with an optional PE inner jacket. An optional Aluminium moisture tape can be incorporated under the jacket for water blocking and shielding purpose. An optional ripcord can be put 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

20×OD for armoured cables

Temperature Range:

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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:3000N
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: 263N/cm (150lb/in)

DIMENSION AND PARAMETERS

No. of fibres	Approx. Overall Diameter	Approx. Overall Diameter	Cable Weight	Cable Weight	Maximum Pulling Load (Installation)	Maximum Pulling Load (In Service)
	in	mm	Lbs./Kft	kg/km	N/lb	N/lb
2-12	0.553	14	236.24	352	8000/1800	2650/595