



**Caledonian**

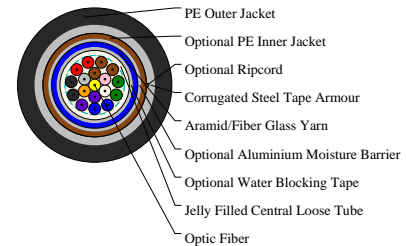
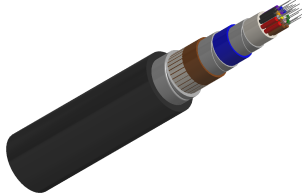
Fiber Optic Cables

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## CENTRAL LOOSE TUBE CABLE

Corrugated Steel Tape Armoured Type



## APPLICATIONS

This cable is characterized by light weight and small diameter, suitable for both aerial and duct installation. The cable can also be used for direct burial for armoured option

Features:

Loose Tube construction provides environmental protection

Loose tube jelly filled for superior fiber protection

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

Very lightweight and flexible design allows for easy installation

UV or moisture resistant for outdoor application

Compact design with small cable diameter

All Dielectric strength member

Anti-termite and rodent protection as options

Optional Aluminium moisture barrier for EMI protection

## PRODUCT DESCRIPTION

Central loose tube cable contains one tube with 2 - 24 fibers, which is filled with water blocking gel. Either aramid yarn or fiber glass is wound around the tube to provide physical protection and tensile strength. The cable can be jacketed with either PE or LSZH. PE is the preferred option in outdoor environment for water protection purpose. For direct burial, either steel wire armour or corrugated steel tape armour is applied with an optional inner jacket of either PVC, PE or LSZH. An Aluminium moisture tape can be incorporated under the jacket for water blocking and shielding purpose. A 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



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During operation: 10×OD for unarmoured cables

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: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
14-24	0.473	12	97.32	145	2670/600	890/200