



**Caledonian**

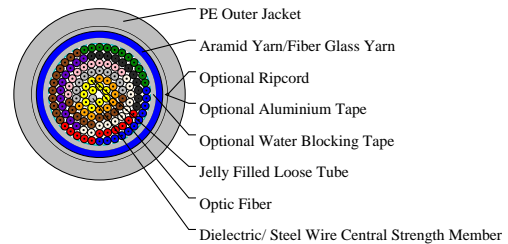
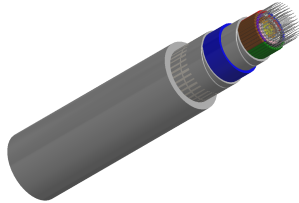
Fiber Optic Cables

[www.caledonian-cables.com](http://www.caledonian-cables.com)

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## MULTI LOOSE TUBE CABLE

Unarmoured Type



## APPLICATIONS

The multi loose tube non metallic cable is designed for outside plant, which is prone to electrical interference.

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.

UV resistant for outdoor application

Dry water blocking core design for ease of handling

Anti-termite and rodent protection as options

Optional Aluminium moisture barrier for EMI protection and water protection

## 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 can be jacketed with either PE, PVC or LSZH though PE is the preferred option for water protection purpose. For direct burial, steel wire armour or corrugated steel tape armour is applied with an optional inner jacket of either PVC or PE. 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: 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	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
146-216	0.708	18	167.79	250	2670/600	800/180