



**Caledonian**

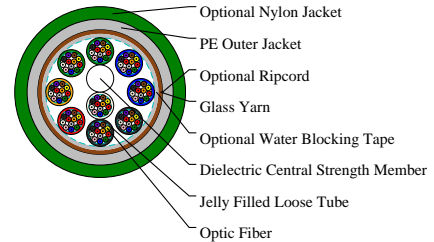
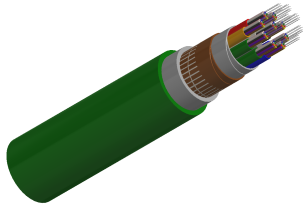
Fiber Optic Cables

www.caledonian-cables.com

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## MULTI LOOSE TUBE RIBBON FIBER CABLE

Unarmoured Type



## APPLICATIONS

This cable can provide excellent transmission performance and protection of fibers in a variety of field environments. It is usually used in long haul communication system, subscriber network system, distribution, feeder network system and local area network system.

Features:

Large fiber counts with small cable diameter

Highly adaptable to mass splicing

Suitable for installation in pipeline

High quality jelly filled loose tube provides the ribbon fiber satisfactory mechanical and environmental protection

Ripcord allows easy jacket removal

UV or moisture resistant for outdoor application

Dry water blocking core design for ease of handling

## PRODUCT DESCRIPTION

The cable consists of 12 to 648 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 ribbon 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 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



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Minimum Bending Radius:

Under installation: 20XOD

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
108-288	0.865	22	214.77	320	2670/600	890/200