



Caledonian

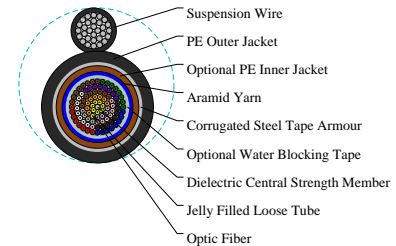
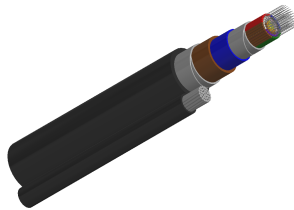
Fiber Optic Cables

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FIG8 SELF-SUPPORTING CABLE

Armoured Type



APPLICATIONS

This cable is ideal for in long distance and interoffice communication in strong current zone, as well as power transmission system. The built in suspension stranded rope provides high tensile strength, enabling the cable suited for large span installation, resulting in time and installation cost savings. The suspension wire, being an integral part of the cable, is easily available for gripping, fastening and pulling. This cable is featured of its lightness, low dispersion and high tensile strength.

Features:

Suitable for self supporting aerial, duct and direct burial installation

Tear away messenger simplifies grounding

Ripcord allows easy cable entry and jacket removal

Compatible with existing Fig 8 hardware

Flexible buffer tube simplifies routing and splicing

Loose tube jelly filled for superior fiber protection

UV or moisture resistant for outdoor application

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 jelly filled 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. Water blocking materials are filled in the interstice of the cable core, core wrapping layer/water blocking tape. 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. Cable cores are connected with the suspension wires by PE sheath to form a figure "8" shape. An optional ripcord is located under the jacket to facilitate jacket removal.

STANDARDS

IEC60794-1-2

Telcordia GR-20



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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:

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 | | |
| 96-144 | 0.8*1.29 | 20.2*32.6 | 383.22 | 571 | 2670/600 | 890/200 |