UW-FIG8-012

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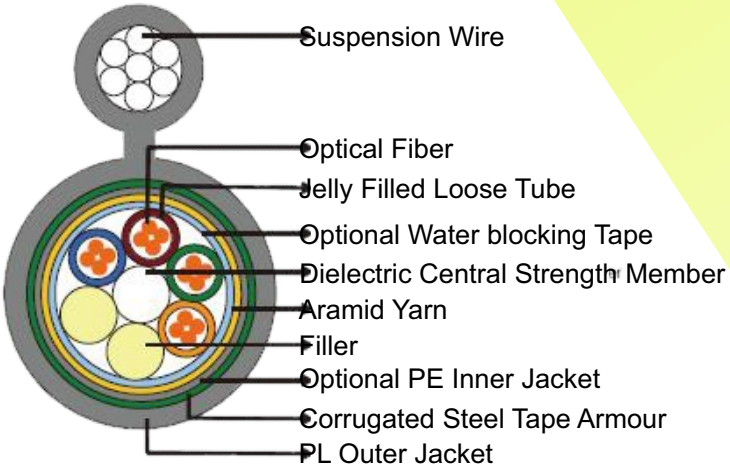
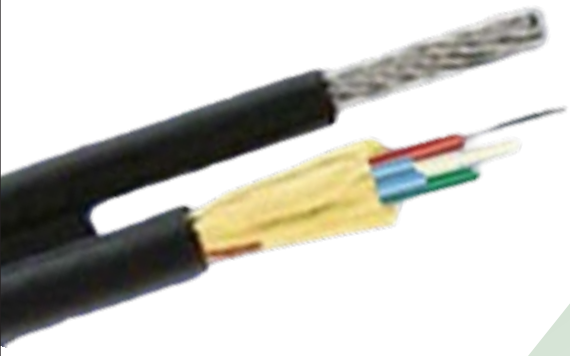


Armoured Type

Application

UW-FIG8-012 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



Description

UW-FIG8-012consists of 5 to 36 fibers containing tubes or fi llers stranded in up to 3 layers around a central strength member and bound under a PE jacket. Each jelly fi lled tube contains 4 -12 fi bers. 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 fi ber glass is wound around the tube to provide physical protection and tensile strength. Water blocking materials are fi lled in the interstice of the cable core, core wrapping layer/water blocking tape. The cable can be jacketed with either PE, PVC, HDPE 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 fi gure “8” shape. An optional ripcord is located under the jacket to facilitate jacket removal.

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Physical Properties

Fiber Count	Nominal Weight(kg/km)	Nominal Weight(lb/kft)	Nominal Outer Diameter(mm)	Nominal Outer Diameter(in)
2-24	389.0	261.07	12.6*25.1	0.50*0.99
36-72	389.0	287.92	14.7*27.1	0.58*1.07
96-144	571.0	383.22	20.2*32.6	0.80*1.29
2-24	303.0	203.36	9.1*21.5	0.36*0.85
36-72	332.0	222.82	11.1*23.5	0.44*0.93
96-144	417.0	279.87	15.9*28.3	0.63*1.12

Mechanical Properties

Minimum Bending Radius:	Short Term – 10D Long Term – 20D	Tensile Strength	2000N for armoured cables
Attenuation dB/Km	1310nm :0.35 1550nm : 0.21	Max crush resistance (long)	63 lbs/in (1000 N/10cm)
Zero Dispersion Wavelength	1300-1324nm	Strength Member	2 x Steel wires embedded in sheath
Sheathing	High Density Polyethylene	Twist (Torsion):	180×10 times, 125×OD
Temperature Range:		Crush Strength	1500 N/ 100mm
Operating Temperature Range:	-20℃(-40℉) to +70℃ (+158℉)	Impact Strength	25 Nm
Storage Temperature Range:	-30℃(-58℉) to +70℃ (+158℉)	Zero Dispersion Slope	< 0.092ps/nm2.km

Features

- Suitable for self supporting aerial, duct and direct burial installation
- Tear away messenger simplifi es grounding
- Ripcord allows easy cable entry and jacket remova
- Compatible with existing Fig 8 hardware
- Flexible buffer tube simplifi es routing and splicing.
- Loose tube jelly fi lled for superior fi ber protection
- UV or moisture resistant for outdoor application

UW-FIG8-012

Safety Compliance

General Purpose Grade	Flammability Test: OFN (UI1581)
Riser Grade	Flammability Test: OFNR/FT4 (UI1666)
Plenum Grade	Flammability Test: OFNP/FT6 (UL 910)
FRPVC Grade	Flammability Test: IEC60332-1
LSZH Grade	Halogen Content Test: IEC 60754-1 Acidity Test: IEC 60754; Smoke Emission Test: IEC61034-1/2
LSFROH Grade	Halogen Content Test: IEC 60754-1 Acidity Test: IEC 60754; Smoke Emission Test: IEC61034-1/2 Flammability Test: IEC60332-1 & IEC 60332-3C/A
FR Grade	Fire Resistance Test : IEC 60331 / BS 6387 CWZ

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