

Fiber Reinforced Plastic (FRP Rod)

Used as Di electric composite strength member in Optic Fibre Cables

Applications

It is a di-electric composite cable strength member widely known as FRP/ GRP rod. It is designed to provide excellent tensile strength performance while maintaining high degree of stiffness, preventing cable buckling over its entire service life. It is most suited for loose tube, uni-tube, slotted core or ribbon cable, typically used as central or peripheral reinforcement in fiber optic cables. FRP rods serve a dual purpose. It provides cable reinforcement during installation, reduces tension on signal carrying optic fiber/ conductor. The lightweight FRP prevents the cable from sagging in aerial installations and its rigidity and strength takes on the load of cable. FRP combines the properties of high performance glass fibers and polymer resin to give a cost effective and superior strength member for cables. FRP strength members are also widely used in various copper cables for last mile connectivity as well as power transmission.

Features:

- Light Weight & Excellent Tensile Strength
- Prevent Cable buckling
- Most Suited for Multi-Loose Tube, Uni Tube, Slotted Core & Ribbon Cable Designs.
- Used as central or peripheral reinforcement in fibre optic cable
- Dual Advantage : Reinforcement during installation as well as reduce stress on signal carrying optic fibre /conductor
- Prevent sagging in aerial installation
- Cost effective solution as a strength member

Description

It is manufactured using E-glass fiber with heat resistant thermal resin system. It is available in various coatings including EAA, Tuff, Mega Bond and HDPE, which allows easy handling, Tuff coating provides very smooth surface, whereas Mega bond is suitable for where high adhesion to up jacketing is desired

Product Range

Available diameters:

0.5 mm up to 5.0 mm (0.5, 0.8, 0.9, 1.0, 1.1, 1.2, 1.5, 1.6, 1.8, 2.0, 2.1, 2.2, 2.3, 2.5, 2.7, 2.8, 3.0, 3.5, 4.0, 4.5, 5.0).

