

***INDOFLAT* - Flat FRP rod**

Product Application:

INDOFLAT, di-electric FRP rod is designed to be used as an dielectric armour in very rugged cables, such as , **Rodent Resistant** cables, **Direct Burial** cable, **Bullet Resistant** aerial cable, etc. It is generally applied helically on to the cable which provides high degree of flexibility, with reduce thickness and excellent tensile strength & modulus performance without adding bulk. It is most suited for loose tube, uni-tube, ribbon cable, & typically used as peripheral reinforcement in fiber optic cables. It is typically embedded in the jacket or stranded over cable core and the cable manufactured with it would be lower in diameter, and lighter in weight.

Description

INDOFLAT is manufactured using E-glass fiber with proprietary resin system. It is available in Hard coated surface, which allows easy handling. Hard coat provides very smooth surface. Dimensions, as per customer requirement can be supplied.

Typical Product Characteristics:

Physical properties	Units	Value	Test Method
Density	gm/cm ²	1.9-2.15	Water immersion
Diameter Stability	mm	+/- 0.1	Micrometer
Tensile Strength at Break	Kg/mm ²	> 120	ASTM D3916
Elongation at break	%	> 2.5	ASTM D3916
Tensile Modules	Kg/mm ²	> 4500	ASTM D3916
Min. Bend radius @ 25°C	mm	< 25 D	ICPL/QS/010
Heat Stress tolerance, 80°C,24 hrs	mm	50 D	ICPL/QS/009
Flexural Strength	Kg/mm ²	> 60	ASTM D790
Flexural Modules	Kg/mm ²	> 5000	ASTM D 790
Water absorption	%	< 0.1	ASTM D 570
Coefficient of thermal expansion	cm/cm/°C	5.6 x 10 ⁻⁶	ASTM D596