



Product Application

INDOLINE, is a di-electric Composite Strength Member (CSM), widely known as FRP rod 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 & is typically used as central or peripheral reinforcement in fiber optic cables.

Description

INDOLINE is manufactured using E-glass fiber with high heat resistant, proprietary resin system. It is available in various coatings including, EAA, Hard, Mega Bond and HDPE, which allows easy handling. Hard coating provides a very smooth surface, whereas Mega Bond coating is suitable where high adhesion to up-jacketing material is desirable.

INDOLINE is available from **0.25 mm to 6.0 mm diameter** in increment of 0.1 mm with very close dimensional tolerances. However, requests for any special diameter or packaging are most welcome. It can also be supplied with up-jacketing configuration. Long continuous standard lengths FRP rod improves yield & productivity on the factory floor. It has an added advantage of high heat resistant property with high torsional strength.

Typical Product Characteristics

Physical Properties	Units	Value	Test Method
Density	gm/cm ³	1.9 – 2.15	Water Immersion
Diameter Tolerance	mm	+ \- 0.05	Micrometer
Ovality	%	< 5	Micrometer
Tensile Strength at Break	Kg/mm ²	> 140	ASTM D3916
Elongation at Break	%	> 2.5	ASTM D3916
Tensile Modules	Kg/mm ²	> 5000	ASTM D3916
Minimum Bend Radius @ 25° C	mm	< 25 D	ICPL/QS/009
Heat Stress Tolerance, 80° C, 24 hrs	mm	50 D	ICPL/QS/008
Flexural Strength	Kg/mm ²	> 70	ASTM D790
Flexural Modules	Kg/mm ²	> 5000	ASTM D790
Water Absorption	%	< 0.1	ASTM D570
Coefficient of Thermal Expansion	cm/cm / °C	5.6 x 10 ⁻⁶	ASTM D696

Typical Packaging

Spools

Spool Code	S061	S083	S935	S104
Flange, mm	630	800	935	1000
Traverse, mm	450	550	550	620
Width, mm	510	610	610	680
Barrel, mm	315	400	400	450
BC to DPC, mm	120	120	120	120
Pallet L x W x H, mm	656 x 555 x 845	830 x 650 x 1022	985 x 650 x 1185	1045 x 725 x 1245

Std Bore Size is 80 mm (+2.0 mm)

* Other customised spools can be made available on request.

Meter Marking available on request.

Rod diameter in mm		Length per spool, Kms (max)		
↓	↓	↓	↓	↓
1.00	75	90	100	
1.20	50	90	100	
1.50	32	70	90	
1.60	28	63	90	
1.80	25	50	78	↓
2.00		40	65	78
2.10		38	58	73
2.30		32	50	61
2.50		27	41	50
2.80			33	42
3.00			29	35
3.50				26

SHIPPING				
No. of Spools	↓	↓	↓	↓
Truck Eicher (LCV)	21	15	12	8
Truck Tata 1210	27	18	15	10
20' Container	27 / 54 / 81	18 / 36	18 / 36	16 / 32

Limited Warranty: This product has been tested prior to dispatch and Indore gives warranty that tis free from any manufacturing defects.

However Indore disclaims any liabilities for incidental or consequential damages arising out of breach of this warranty or any implied warranty.

INDORE COMPOSITE PVT. LTD. [Cable Materials Div.]

Corporate & Marketing Office

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Manufacturing Sites

Plant 1: Pithampur, M.P. - 454775. India.

Plant 2 : Umbergaon, GUJ. - 396171. India.