



Product Application

INDOSEM, is a di-electric semi-rigid rod designed to provide a high degree of flexibility with excellent tensile strength & modulus performance without adding bulk. It is most suited for loose tube, uni-tube, ribbon cable, premise cable & typically used as peripheral reinforcement in fiber optic cables. It is typically embedded in the jacket and the cable manufactured with it would be smaller in diameter, lighter in weight and thus have a low total cable cost.

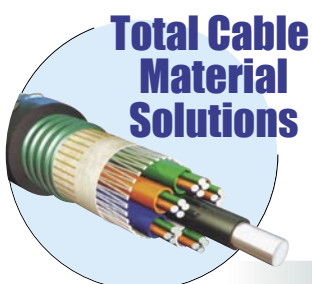
Description

INDOSEM is manufactured using E-glass fiber with flexible resin system. Indosem is available in various coatings including, EAA, Hard, Mega Bond and HDPE which allows easy handling. EAA provides very smooth surface whereas Mega Bond is most suitable where high adhesion to jacketing material is desirable.

INDOSEM is available from **0.25 mm** to **3.0 mm** diameter in increments of 0.1 mm with very close dimensional tolerances. However, requests for any special diameter or packaging are most welcome. A long continuous standard length FRP rod improves yield & productivity on the factory floor.

Typical Product Characteristics

Physical Properties	Unit	Value	Test Method
Density	gm/cm ³	1.9 – 2.15	Water Immersion
Diameter Tolerance	mm	+ \- 0.05	Micrometer
Ovality	%	< 5.0	Micrometer
Tensile Strength at Break	Kg/mm ²	> 140	ASTM D3916
Elongation at Break	%	> 2.5	ASTM D3916
Tensile Modulus	Kg/mm ²	> 5000	ASTM D3916
Minimum Bend Radius @ 25°C	mm	< 5 D	ICPL/QS/009
Folding Cycle	Nos.	> 500	ASTM D2176
Water Absorption	%	< 0.1	ASTM D570



Typical Packaging

Spools

Spool Code	S061	S083
Flange, mm	630	800
Traverse, mm	450	550
Width, mm	510	610
Barrel, mm	315	400
BC to DPC, mm	120	120
Pallet L x W x H, mm	656 x 555 x 845	830 x 650 x 1022

Std Bore Size is 80 mm (+2.0 mm)

* Other customised spools can be made available on request.

Rod Diameter in mm	Length Per Spool, Kms	
1.00	75	100
1.20	50	100
1.50	32	70
1.60	28	63
1.80	25	50
2.00		40
2.10		38
2.30		32
2.50		27

* Higher sizes are also possible

SPOOL / TRUCK CONTAINER LOAD	No. of Spools	
Truck Eicher (LCV)	21	15
Truck Tata 1210	18	10
20' Container	27 / 54 / 81	18 / 36

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.