

Product Application

INDOFINE AR, are Fine Diameter Aramid Rods have been specially developed for the up-coming Fiber to the home (FTTH/FTTP) cables, where very fine diameter rods with very low bend radius and good adhesion to the jacket is required. These are used as peripheral reinforcement embedded in a PE/PVC jacket. An excellent adhesion of rods to jacket materials facilitates maximum transfer of load to the rod, hence protecting the fiber. The cables manufactured with **INDOFINE AR** would be very small in diameter, lightweight and good bending properties to facilitate installation even in very small bends. These rods are suitable for aerial and micro-duct cables.

Description

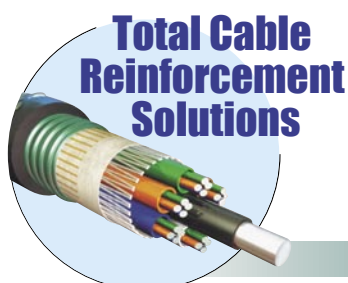
INDOFINE AR is manufactured using Aramid fiber and a proprietary resin system to provide low bending radius & good anti-buckling properties with very high modules. These rods are also very light weight.

These rods are supplied with Megabond coatings to provide very good adhesion with standard jacketing materials or with Hard coat. Long continuous lengths with very close diameter tolerance, makes it suitable for trouble free high cable productivity.

INDOFINE Aramid Rods are available in diameter ranging from **0.30 mm to 1.0 mm**

Advantages

- 1 Provide ultimate tensile strength to Optic Fiber Cables in comparison to other metallic & non-metallic central strength members.
- 2 Low density aramid fibers formulate a very light weight reinforcement solution which makes them ideal composite material for Optical Fiber Cables.
- 3 Available with special coatings to provide very good adhesion with standard jacketing materials.
- 4 Precise diameter tolerance for high productivity.



Typical Product Characteristics

Physical Property	Unit	Value	Value	Test Method
Fiber Type	-	Aramid	Aramid	
Dimension Tolerance	mm	0.3 ± 0.05	0.5 ± 0.05	Micrometer
Ovality	%	< 5	< 5	Micrometer
Density	gm/cc	1.35 to 1.45	1.35 to 1.45	ICPL/QS/013
Tensile Strength @ Break	Kg/mm ²	>150	>150	ASTM D3916
Elongation @ Break	%	>2.5	>2.5	ASTM D3916
Tensile Modulus	Kg/mm ²	>6500	>6500	ASTM D3916
Minimum Bending Dia @ 25 °C	mm	10 D	10 D	ICPL/QS/010
Heat Stress @ 80°C, 24 Hrs,	mm	50 D	50 D	ICPL/QS/009

Typical Packaging

Spools

Spool Code	S-A35	S-A40
Flange, mm	350	400
Traverse, mm	160	300
Width, mm	200	350
Barrel, mm	220	250
Central Bore, mm	38	40
C-C Pin distance, mm	80	120
Pallet Dimension, L x W x H, mm	765 X 585 X 790	915 X 865 X 865
No. of Spool Per Pallet, Nos.	8	8

Rod Diameter in mm	Length per spool in Km	
0.25	25.2	
0.40	25.2	
0.50	2.3	
0.60		25.2
0.70		25.2
0.80		
1.00		

* Other customised spools can be made available on request.

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.