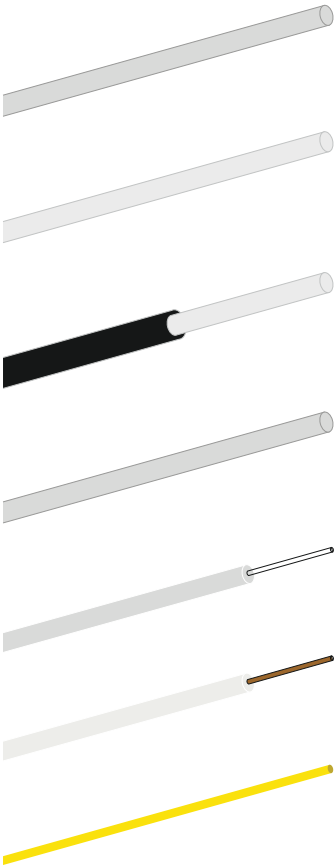
OFR Telecom

Cable Reinforcement Solutions for the World



- **UNCOATED FRP ROD**
  Central strength member provide tensile strength to OFC
- **EAA COATED FRP ROD**
  Ethylene Acrylic Acid is coated over FRP to provide better adhesion with PE
- **PE UPCOATED FRP ROD**
  PE is coated over FRP to achieve higher diameter with low cost and better flexibility.
- **WATER BLOCKING FRP ROD**
  Water blocking material is used for FRP to protect from water ingress.
- **FRP ROD WITH STEEL WIRE**
  Steel Tracer wire is embedded inside FRP
- **FRP ROD WITH COPPER WIRE**
  Copper tracer wire is embedded inside FRP
- **ARAMID FRP ROD**
  Provided high tensile strength even at lower diameter

sales@ofrtelecom.com
An ISO 9001, 14001 & 45001 Certied Company

OFR Telecom

FRP STRENGTH MEMBER

FIBER REINFORCED PLASTIC ROD

* High Tensile strength
* Low moisture absorption
* High performance capabilities
* High dielectric strength
* Range : 0.4 - 11.0 mm

PRODUCT DETAILS

Central or Peripherial strength member in Optical fiber cable

PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	VALUE
Glass Content	DIN EN ISO1172	%	≥80
Diameter Tolerance	Micrometer	mm	± 0.05
Ovality	Micrometer	mm	± 0.05
Density	Water Immersion	gm/cc	2.05 to 2.15
Splices	None		

MECHANICAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	VALUE
Tensile modulus	ASTM D3916	GPa	≥ 50
Tensile strength at break	ASTM D3916	GPa	≥ 1.50
Fexural Modulus	ASTM D790	GPa	>50
Elongation at break	ASTM D3916	%	≥2.5
Coefficient of thermal expansion	ASTM D696	cm/°c	5.9×10^{-5}
Water absorption	ASTM D570	%	< 0.1
Minimum bend radius at 25°C			≤ 25 D
Resistance to bending	ASTM D3916	N/Sq mm	≥1500
Resistance to compression	DIN 53455	N/Sq mm	≥ 300

sales@ofrtelecom.com

An ISO 9001, 14001 & 45001 Certied Company

OFR Telecom

FRP STRENGTH MEMBER (EAA)

FIBER REINFORCED PLASTIC ROD EAA COATED

* High Tensile strength
* Low moisture absorption
* High performance capabilities
* High dielectric strength
* Range : 0.4 - 11.0 mm

PRODUCT DETAILS

Central or Peripherial strength member in Optical fiber cable

PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	VALUE
Glass Content	DIN EN ISO1172	%	≥80
Diameter Tolerance	Micrometer	mm	± 0.05
Ovality	Micrometer	mm	± 0.05
Density	Water Immersion	gm/cc	2.05 to 2.15
Splices	None		
EAA Coating Thikness		Micron	Min 20 & Max 60

MECHANICAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	VALUE
Tensile modulus	ASTM D3916	GPa	≥ 50
Tensile strength at break	ASTM D3916	GPa	≥ 1.50
Fexural Modulus	ASTM D790	GPa	>50
Elongation at break	ASTM D3916	%	≥2.5
Coefficient of thermal expansion	ASTM D696	cm/°c	5.9x 10^{-5}
Water absorption	ASTM D570	%	< 0.1
Minimum bend radius at 25°C			≤ 25 D
Resistance to bending	ASTM D3916	N/Sq mm	≥1500
Resistance to compression	DIN 53455	N/Sq mm	≥ 300

sales@ofrtelecom.com

An ISO 9001, 14001 & 45001 Certied Company

OFR Telecom

ARP STRENGTH MEMBER

ARAMID REINFORCED PLASTIC ROD

- High tensile strength
- Light weight
- High performance capabilities
- Low moisture absorbtion
- Range : 0.4 - 1.0 mm

PRODUCT DETAILS

Strength member in optical fiber cable
Suitable for FTTH / Drop / Ariel cable

PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	VALUE
Diameter Tolerance	Micrometer	mm	±0.05
Aramid content	DIN EN ISO1172	%	67±3
Ovality	Micrometer	mm	≤ 0.05

MECHANICAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	VALUE
Tensile modulus	ASTM D3916	GPa	≥ 50
Tensile strength	ASTM D3916	GPa	≥ 1.50
Minimum bend radius at 25°C	mandrel bend	mm	<8 for 0.4mm <10 for 0.5mm
Elongation at break	ASTM D3916	%	≥ 2.5
Moisture content	Over 150°C, 30 Min.	%	≤ 2.0

sales@ofrtelecom.com
An ISO 9001, 14001 & 45001 Certied Company