LIGHTLINE®

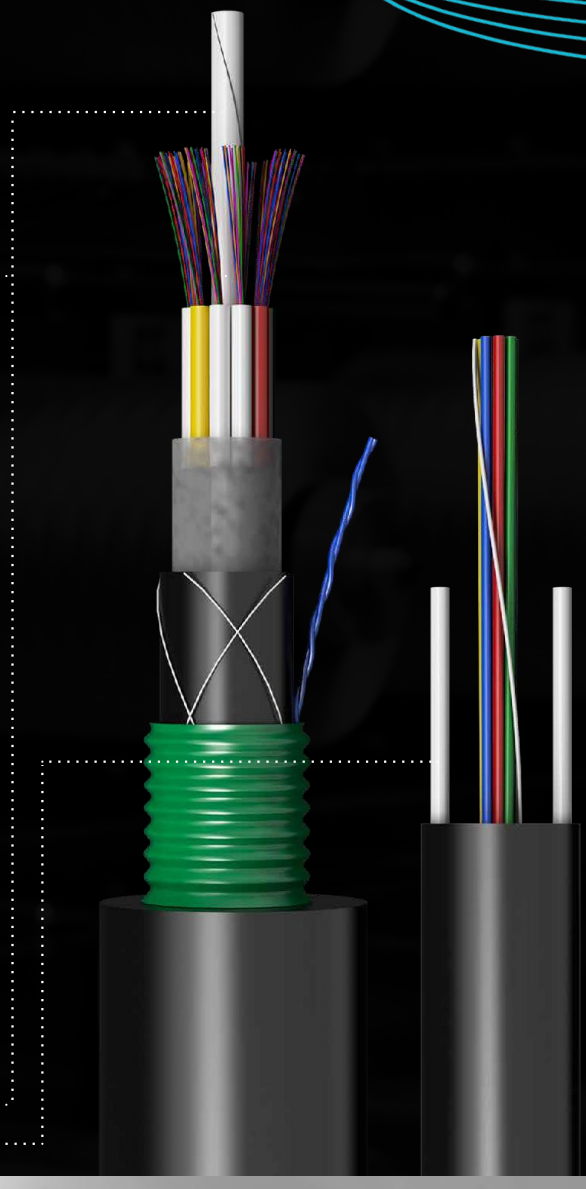
strength in every strand

Rigid Strength

Fiberglass reinforcement to protect your information highway!

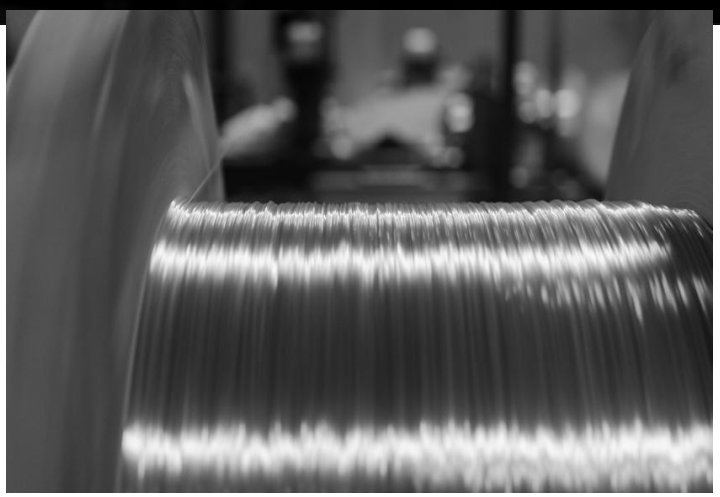
For over 30 years the team in Granite Falls, NC has continued to lead the industry in innovation with LIGHTLINE® GRP (glass reinforced polymer) central strength member. With the flexibility to add specialty coatings to the GRP such as water swellable, EAA for adhesion promotion, up jacketing with polyethylene, or others – GFC is your top source for central strength member needs.

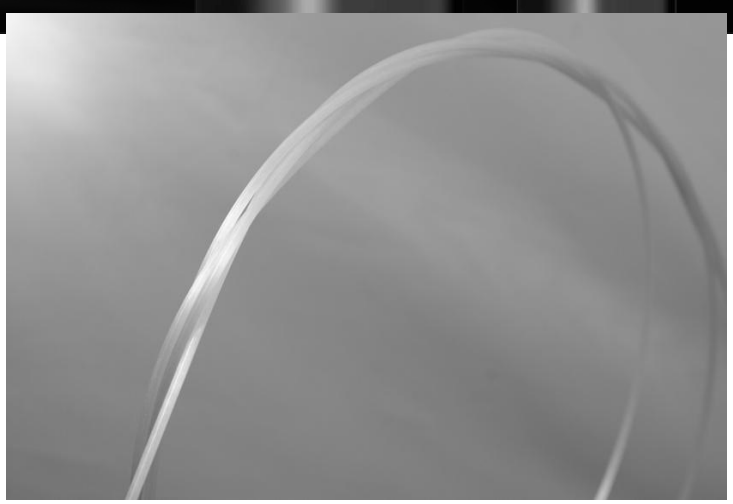
LIGHTLINE® is manufactured with ISO 9000 quality standards and surpasses the competition with a level of consistency and reliability that will improve cable throughput and productivity in the cable manufacturing process.



Lightline LFH/Lightline Instantdry

Lightline Tackybond/Lightline Instantbond





GFC

strength in every strand

Granite Falls Composites, Inc | 828-396-2121 | 3908 Hickory Blvd | Granite Falls, NC I USA

Coated for your application

GFC LIGHTLINE® GRP is available with specialty coatings to meet your specific cable design needs. Water blocking, EAA, Bond/Release, as well as PE upjacketed material is available.

Fiber Type	E glass
Resin Type	UV and LED cured, styrene free, no VOCs epoxy acrylate
Fiber %	80
Resin %	20
Standard Diameter Tolerance	±5%
Thermal Resistance	100 x diameter, 5 days, 100°C

Tensile Strength	>1.40 GPa
Modulus of Elasticity	>50 GPa
Flexural Modulus	>48 GPa
Elongation at Break	>2.5%
Minimum Bend Diameter	40 x diameter

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"Smooth payoff, consistent diameter control, superior tensile and environmental performance, un-matched adhesion performance (EAA)", are just a few of the compliments regularly given by cable manufacturing Engineers and operators that use GFC LIGHTLINE®. *"When you purchase GFC LIGHTLINE® you know what you are getting --- you are getting the best in the business!"*

LIGHTLINE InstantDry®
strength in every strand

LIGHTLINE INSTANTDRY® GRP has water uptake features of 90% of original weight. INSTANTDRY® can be added to GRP sizes 0.90mm-5.00mm.

The final GRP diameter (with INSTANTDRY® coating) is base GRP plus 0.10mm. Example: LFH/WU120 has a nominal base rod diameter of 1.20mm and a nominal final product diameter of 1.30mm.

- Used to pass Telecordia GR20 requirements
- Bonded SAP coating to GRP to eliminate powder build up during processing
- Eliminates need for cable flooding compounds

LIGHTLINE TackyBond®
strength in every strand

LIGHTLINE TACKYBOND is a unique bonding promoter with the ability to bond and release with physical tack. No chemical bonds are formed between substrates of GRP and other cable components.

The final GRP diameter (with TACKYBOND coating) is base GRP plus 0.03mm. Example: LFH/TC190 has a nominal base rod diameter of 1.90mm and a nominal final product diameter of 1.93mm.

LIGHTLINE InstantBond®
strength in every strand

LIGHTLINE INSTANTBOND is the industry leading GRP coated with EAA (Ethylene Acrylic Acid) to promote adhesion to upjacket substrates. In addition, the GRP is super smooth for operator friendly handling and reduced fiber buildup during processing.

The final GRP diameter (with INSTANTBOND coating) is base GRP plus 0.10mm. Example: LFH/IH205 has a nominal base rod diameter of 2.05mm and a nominal final product diameter of 2.15mm.