

Flat LIGHTLINE®

LFHF-140

Description

Flat LIGHTLINE is a rectangular composite developed as a non-metallic strength element for fiber cables. Flat LIGHTLINE is a highly flexible, all dielectric composite for crossply sheathing and ballistic protection for fiber optic cables and is an effective non-metallic strength element for fiber and copper cables, which provides excellent mechanical protection against impact, crush, abrasion, and rodent protection.

Typical LFH LIGHTLINE Physical Properties

Fiber Type	E-Glass
Resin Type	Epoxy
Approximate Fiber Percentage, by weight	80%
Approximate Resin Percentage, by weight	20%
Coefficient of Thermal Expansion (CTE)	$5.9 \times 10^{-6} \text{ C}^\circ$

Typical Flat LFH LIGHTLINE Mechanical Properties

Tensile Strength	> 1.24 GPa
Modulus of Elasticity	> 50 GPa
Flexural Modulus	> 48 GPa
Elongation at Break	> 2.5%

Flat LFH LIGHTLINE Standard Sizes

Product	Metric	Inches
LFHF-140	1.40 x 0.58mm \pm 0.08	0.055 x 0.023" \pm 0.003

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