

FIBERBUNDLE®

LFB

Description

FIBERBUNDLE is a flexible composite strength element consisting of E-glass and thermoplastic matrix, developed as a high modulus, non metallic, peripheral and central strength element for fiber optic and copper cables. Relative to standard LIGHTLINE®, FIBERBUNDLE offers high modulus performance without rigidity for greater cable flexibility.

FIBERBUNDLE Physical Properties

Fiber Type	E-Glass
Resin Type	Thermoplastic
Approximate Fiber Percentage, by weight	83%
Approximate Resin Percentage, by weight	17%
Coefficient of Thermal Expansion (CTE)	5.9 X 10 ⁻⁶ C°
Standard Diameter Tolerances	+/- 8%
Maximum Lengths	60 km

FIBERBUNDLE Mechanical Properties

Modulus of Elasticity	>50 GPa
Elongation at Break	>2.5%

FIBERBUNDLE Standard Sizes

Product Code	Diameter		Minimum Elasticity		Tensile Strength	
	mm	in.	N %	lbs. %	N/mm ²	PSI
LFB-160	1.60	0.062	756	170	710	103000
LFB-190	1.90	0.075	1112	250	710	103000

Custom sizes available upon request

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