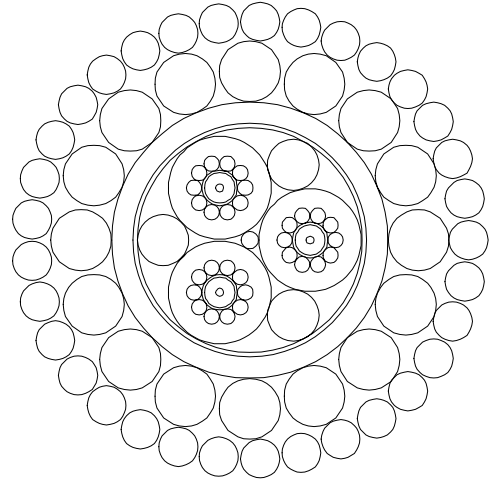


DATALINE®

Description	Inch	mm
<u>ELEMENT A: Electro-Light® (3)</u>		
Fiber: 62.5/125/245 μm MM	0.010	0.25
Bffr: Hytrel®/Nylon	0.041	1.04
Serve: #15 AWG (1.64mm ²) Hard-Drawn Copper	0.077	1.96
Belt: EPC	0.119	3.02
<u>ASSEMBLY</u>		
Layer #1: Fill rod	0.024	0.61
Layer #2: 3 Element A's with fill rods placed in interstices. Void filled and bound with adhesive Polyester tape.	0.261	6.63
<u>BELT</u>		
HDPE	0.325	8.26
<u>STRENGTH MEMBER</u>		
Layer #1: 16/0.069" SGIPS	0.453	11.51
Layer #2: 33/0.0435" SGIPS	0.540	13.72



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PROPRIETARY; Use Pursuant to Company Instructions

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PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C

Metric

English

PHYSICAL

Weight in Air	704 kg/km	473 lb/kft
Weight in Seawater	575 kg/km	387 lb/kft
Specific Gravity	5.5	5.5

MECHANICAL

Breaking Strength (Fixed End)	97.8 kN	22,000 lbf
Working Load (0.3% Strain)	22.8 kN	5,125 lbf
Rotation @ Work Load	3.3°/m	1.0°/ft
Recommended Bend Radius	28 cm	11 in

ELECTRICAL

Voltage Rating		
Element A	1,200 V	1,200 V
Insulation Resistance		
Element A	3,000 MΩ•km	10,000 MΩ•kft
dc Resistance		
Element A	11.5 Ω/km	3.5 Ω/kft

OPTICAL

Attenuation Rate		
Element A		
@ 850 nm	4.2 dB/km	--
@ 1300 nm	1.5 dB/km	--
Bandwidth		
Element A		
@ 850 nm	≥ 160 MHz•km	--
@ 1300 nm	≥ 500 MHz•km	--

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