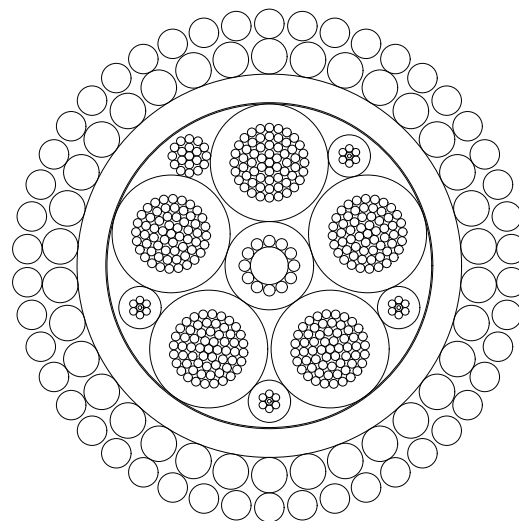


DATALINE®

Description	Inch	mm
<u>ELEMENT A: Single (1)</u>		
Core: Fill rod	0.050	0.96
Cdr: #16 AWG (1.40 mm ²) HD Cu	0.077	1.96
Ins: PP	0.117	2.97
<u>ELEMENT B: Power Single (5)</u>		
Cdr: #11 AWG (4.23 mm ²) Cu	0.096	2.45
Ins: XLPE/PVDF	0.156	3.96
<u>ELEMENT C: Optical Steel-Light</u>		
Fbr: 8.3/125/245 µm SM	0.010	0.25
Armr: 6/.010" PS	0.030	0.76
Belt: E/MAA Copolymer	0.056	1.42
<u>ASSEMBLY</u>		
Core: Element A	0.117	2.97
Layer 1: 5 B's with 4 C's and a drain wire in interstices. Void filled and bound with Al/Poly tape.	0.432	10.97
<u>BELT</u>		
MDPE	0.508	12.90
<u>STRENGTH MEMBER</u>		
Layer #1: 34/0.047" GIPS	0.602	15.29
Layer #2: 46/0.039" GIPS	0.680	17.27



PROPRIETARY; Use Pursuant to Company Instructions

PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C

Metric

English

PHYSICAL

Weight In Air	984 kg/km	661 lb/kft
Weight In Seawater	767 kg/km	516 lb/kft
Specific Gravity	4.5	4.5

MECHANICAL

Breaking Strength	125 kN	28,000 bf
Working Load @ 0.42% strain	36 kN	8,000 lbf
Recommended Bend Radius	35 cm	14 in

ELECTRICAL

Voltage Rating		
Element A	600 V	600 V
Element B (U/U_0 rms)	4,500 / 2,700 V	4,500 / 2,700 V
dc Resistance		
Element A	15.0 Ω /km	4.6 Ω /kft
Element B	5.40 Ω /km	1.65 Ω /kft
Insulation Resistance		
Element A	9,000 $M\Omega \cdot km$	30,000 $M\Omega \cdot kft$
Element B	500 $M\Omega \cdot km$	1,600 $M\Omega \cdot kft$

OPTICAL

Attenuation Rate		
Element C		
@ 1310 nm	0.50 dB/km	--
@ 1550 nm	0.40 dB/km	--

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