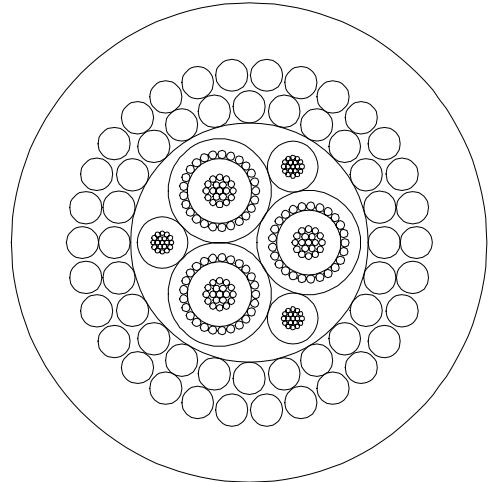


# DATALINE®

Description	Inch	mm
<u>ELEMENT A</u> - (3) Cdr: #18 AWG BC, (0.82 mm <sup>2</sup> ) Ins: Polypropylene Serve: #26 AWG BC Belt: Polypropylene	0.045 0.110 0.141	1.14 2.79 3.58
<u>ELEMENT B</u> - (3) Cdr: #21 AWG BC, (0.38 mm <sup>2</sup> ) Ins: Polypropylene	0.030 0.068	0.76 1.73
<u>ASSEMBLY</u> Layer 1: 3 Element A's with 3 Element B's in valleys.	0.304	7.72
<u>BELT</u> High Density Polyethylene	0.332	8.43
<u>ARMOR</u> 1st Layer: 24/0.044" GIPS 2nd Layer: 30/0.044" GIPS	0.410 0.498	10.41 12.65
<u>JACKET</u> Flame Retardant PVC, yellow	0.648	16.46



PROPRIETARY; Use Pursuant to Company Instructions

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## PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C	Metric	English
<b><u>PHYSICAL</u></b>		
Wt. in Air	708 kg/km	476 lb/kft
Wt. in Seawater	491 kg/km	330 lb/kft
Specific Gravity (seawater)	3.3	3.3
Operating Temperature Range	-30°C to 120°C	-20°F to 250°F
<b><u>MECHANICAL</u></b>		
Breaking Strength	89 kN	20,000 lbf
Working Load	22 kN	5,000 lbf
Recommended Bend Radius	31 cm	12"
<b><u>ELECTRICAL</u></b>		
Voltage Rating		
Element A, cdr to return	1,000 V	1,000 V
Element B	750 V	750 V
dc Resistance		
Element A, cdr	23.6 Ω/km	7.2 Ω/kft
Element A, shield	12.5 Ω/km	3.8 Ω/kft
Element B	51.2 Ω/km	15.4 Ω/kft
Attenuation, Element A		
@ 0.1 MHz	6.6 dB/km	2.2 dB/kft
@ 0.3 MHz	11.5 dB/km	3.5 dB/kft
@ 0.5 MHz	15.1 dB/km	4.6 dB/kft
@ 1.0 MHz	22.0 dB/km	6.6 dB/kft
Capacitance		
Element A	180 pF/m	55 pF/ft
Characteristic Impedance @ 1 MHz		
Element A	30 Ω	30 Ω
Insulation Resistance		
Element A	6,000 MΩ•km	20,000 MΩ•kft
Element B	3,000 MΩ•km	10,000 MΩ•kft

Note: Coaxial units should not be used at frequencies above 1 MHz without trials or consulting factory.

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