751 Old Brandy Road
Culpeper, Virginia 22701

Tele: 540 825-2111
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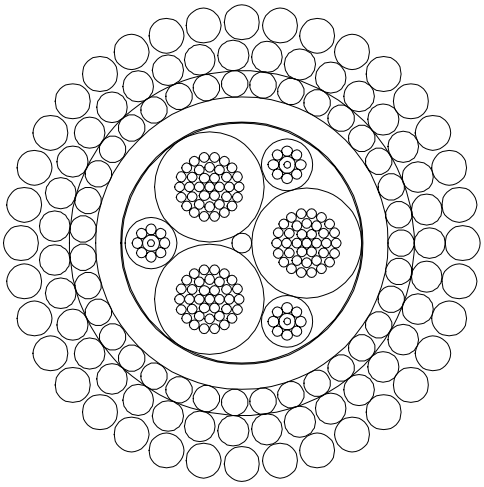
DATALINE®

Description	Inch	mm
ELEMENT A		
Fiber: 8.3/125/245 μm SMF		
Buffer: Hytrel®	0.024	0.61
Armor: 8/0.015" Plow Steel	0.054	1.37
Belt: Polyethylene	0.074	1.88
ELEMENT B		
Cdr: #11 AWG, Hard-drawn Cu		
Ins: Polyethylene	0.156	3.96
ASSEMBLY		
Core: Filler Rod	0.030	0.76
Layer 1: 3 Element B's with 1 Element A in each interstice. Void fill and tape.	0.344	8.74
Belt: Polyethylene	0.415	10.54
ARMORING		
1st Layer: 35 wires GEIPS	0.500	12.70
2nd Layer: 35 wires GEIPS	0.583	14.81
3rd Layer: 36 wires GEIPS	0.681	17.30



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Instrumentation and Control Cable
Code: IM0060343PO01

Date	Page	Revision	Part No.
05/18/2004	1	R	A302351

PERFORMANCE CHARACTERISTICS

Nominal Values @ 20 °C	METRIC	ENGLISH
PHYSICAL		
Weight in Air	1,112 kg/km	747 lb/kft
Weight in Seawater	905 kg/km	608 lb/kft
Specific Gravity (seawater)	5.6	5.6
Operating Temperature	-30 °C to 80 °C	-22 °F to 175 °F
MECHANICAL		
Breaking Strength (Fixed End)	205 kN	46,000 lbf
Breaking Strength (Free End)	205 kN	46,000 lbf
Working Load @ 0.35% Strain	44.5 kN	10,000 lbf
Working Load @ 0.5% Strain	62.3 kN	14,000 lbf
Rotation @ 14,000 lbf	<3.3 °/m	<1 °/ft
Recommended Bend Radius @ 10,000 lbf	35 cm	14 inches
Recommended Bend Radius @ 14,000 lbf	61 cm	24 inches
ELECTRICAL		
Voltage Rating @ 123 volts/mil	2,800 Vdc	2,800 Vdc
Insulation Resistance	3,000 MΩ.km	10,000 MΩ.kft
dc Resistance	4.9 Ω/km	1.5 Ω/kft
OPTICAL		
Attenuation		
@ 1310 nm	0.7 dB/km	0.21 dB/kft
@ 1550 nm	0.7 dB/km	0.21 dB/kft
Proof Test	1,380 N/mm^2	200 kpsi