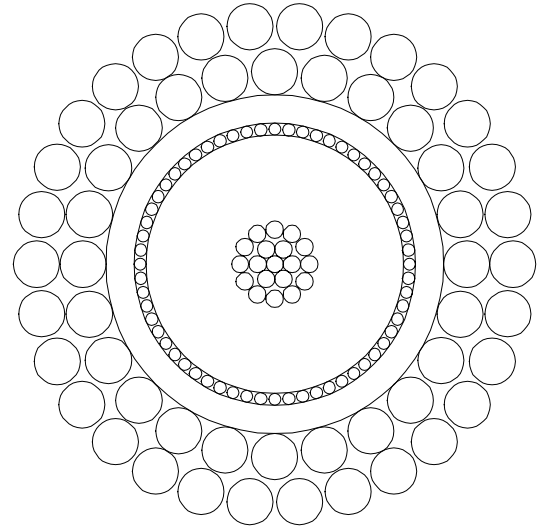


# DATA LINE<sup>®</sup>

Description	Inch	mm
<u>CONDUCTOR</u>		
Core: Nylon Monofilament	0.024	0.61
1 <sup>st</sup> Layer: 6/0.0226" HDDB	0.065	1.65
2 <sup>nd</sup> Layer: 12/0.0226" HDDB	0.109	2.77
<u>INSULATION</u>		
0.110" Wall HDPE	0.330	8.38
<u>SERVED SHIELD</u>		
60/0.0159" HDDB	0.362	9.19
<u>RETURN TAPE (2 Layers)</u>		
0.0017" Cu Polyester	0.367	9.32
<u>BELT</u>		
0.040" Wall HDPE	0.446	11.33
<u>ARMOR</u>		
24/0.060" GEIPS	0.560	14.22
30/0.060" GEIPS	0.680	17.27



Note: All interstices are void filled.  
This design is in accordance with UNOLS  
Specification (and Appendix A) as applicable.

PROPRIETARY; Use Pursuant to Company Instructions

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Signal Transmission Cable Code: SC0010372PO00			
<b>Date</b>	<b>Page</b>	<b>Revision</b>	<b>Part No.</b>
10/11/2004	1	R	A301241

## PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C	Metric	English
<u>PHYSICAL</u>		
Weight in Air	1,030 kg/km	693 lb/kft
Weight in Seawater	823 kg/km	553 lb/kft
Specific Gravity	5.2	5.2
Operating Temperature	-40°C to 90°C	-40°F to 200°F
<u>MECHANICAL</u>		
Breaking Strength (Fixed Ends)	178 kN	40,000 lbf
Breaking Strength (Free End)	164 kN	37,000 lbf
Working Load @ 0.4% Elongation	44 kN	10,000 lbf
Torque @ 10,000 lbf	2.4 kg•m	17 lbf•ft
Rotation @ 10,000 lbf	16°/m	5°/ft
Recommended Bend Radius	36 cm	14 in
<u>ELECTRICAL</u>		
Voltage Rating	3,000 Vdc	3,000 Vdc
Insulation Resistance		
cdr – return @ 500 V	24,000 MΩ•km	80,000 MΩ•kft
return – armor @ 500 V	1,200 MΩ•km	4,000 MΩ•kft
dc Resistance		
cdr	4.1 Ω/km	1.25 Ω/kft
return	2.6 Ω/km	0.80 Ω/kft
loop	6.7 Ω/km	2.05 Ω/kft
Capacitance	108 pF/m	33 pF/ft
Attenuation Rate		
@ 0.5 MHz	4.1 dB/km	1.25 dB/kft
@ 1 MHz	5.8 dB/km	1.76 dB/kft
Characteristic Impedance @ 1 MHz	45 Ω	45 Ω

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Signal Transmission Cable  
Code: SC0010372PO00

Date	Page	Revision	Part No.
10/11/2004	2	R	A301241