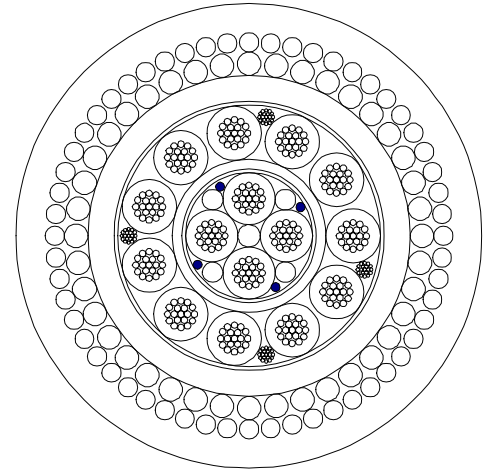


DATALINE®

Description	Inch	mm
<u>ELEMENT A; Shielded Quad (1)</u>		
Cdr.: #12 AWG (3.08mm ²) Cu	0.086	2.18
Ins.: HDPE	0.136	3.45
Assy: 4 cdrs twisted around fill rod with fillers in each major interstice and drain wires in each minor interstice. Void filled and bound with copper tape.		
Belt: HDPE	0.400	10.16
<u>ELEMENT B; Powers (11)</u>		
Cdr.: #12 AWG (3.08mm ²) Cu	0.086	2.18
Ins.: HDPE	0.142	3.61
<u>ASSEMBLY</u>		
Core: 1 Element A		
Outer Layer: 11 Element Bs with 4 drain wires in outer interstices. Void filled and bound with Aluminum-Poly tape.		
	0.692	17.58
<u>BELT:</u>		
HDPE	0.836	21.23
<u>STRENGTH MEMBER:¹</u>		
40/0.063" (1.60mm) GIPS	0.962	24.43
56/0.051" (1.30mm) GIPS	1.064	27.03
<u>JACKET:</u>		
HDPE	1.220	30.99



¹Contra-helical rotation resistant armor @ 96% - 98% coverage.

PROPRIETARY; Use Pursuant to Company Instructions

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Data Transmission Cable			
Code: JE0150952PP00			
Date	Page	Revision	Part No.
02/11/2002	1	H	A304485

PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C

Metric

English

PHYSICAL

Weight in Air	2,319 kg/km	1,558 lb/kft
Weight in Sea Water	1,546 kg/km	1,039 lb/kft
Specific Gravity	3.0	3.0

MECHANICAL

Breaking Strength	231 kN	52,000 lbf
Working Load	56 kN	12,500 lbf
Recommended Bend Radius	61 cm	24 in

ELECTRICAL

dc Resistance		
Element A	6.2 Ω/km	1.9 Ω/kft
Element B	6.6 Ω/km	2.0 Ω/kft
Shield - Element A	15.7 Ω/km	4.8 Ω/kft
Shield - Layer 1	6.6 Ω/km	2.0 Ω/kft
Voltage Rating		
Element A	1,000 Volts	1,000 Volts
Element B	1,200 Volts	1,200 Volts
Insulation Resistance		
Element A	3,000 MΩ•km	10,000 MΩ•kft
Element B	3,000 MΩ•km	10,000 MΩ•kft
Capacitance		
Element A (Star Pair)	108 pF/m	33 pF/ft
Characteristic Impedance @ 10 kHz		
Element A	81 Ω	81 Ω
Attenuation @ 10 kHz		
Element A	1.6 dB/km	0.5 dB/kft

COLOR CODE

(Sequence in CW direction)

Element A -	Red,	Black,	Blue,	White
Element B's -	Black,	Brown,	Blue,	Green
	Grey,	Orange,	Purple,	Red,
	Natural,	Yellow,	Tan	

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Data Transmission Cable
Code: JE0150952PP00

Date	Page	Revision	Part No.
02/11/2002	2	H	A304485