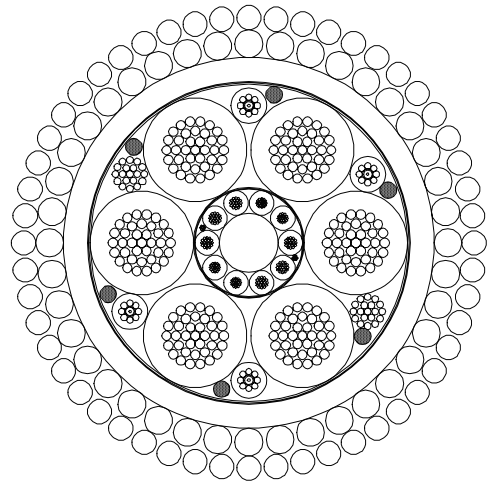


# DATA LINE<sup>®</sup>

Description	Inch	mm	Description	Inch	mm
<u>ELEMENT A; Signal Singles (4)</u> Cdr: #19 AWG (0.61 mm <sup>2</sup> ) Cu Ins: HDPE	0.039	0.99	<u>BELT</u> Hytrel <sup>®</sup>	1.292	32.8
<u>ELEMENT B; Power Singles (6)</u> Cdr: #18 AWG (0.81 mm <sup>2</sup> ) Cu Ins: HDPE	0.045	1.14	<u>STRENGTH MEMBER</u> Layer 1: 40/0.098" GIPS Layer 2: 52/0.085" GIPS	1.488	37.8
<u>ELEMENT C; Power Singles (6)</u> Cdr: #4 AWG (21.31 mm <sup>2</sup> ) Cu Ins: HDPE	0.230	5.84		1.658	42.1
<u>ELEMENT D; STEEL-LIGHT<sup>®</sup> (4)</u> Fbr: 8.3/125/245 □m SM Bffr: Hytrel <sup>®</sup> /Nylon Arm: 8/.0226" Plow Steel Belt: HDPE	0.010	0.25	<sup>®</sup> Hytrel = DuPont Trademark		
<u>ASSEMBLY</u> Core: Fill Rod Layer #1: 4 Element A's and 6 Element B's with 2 drain wires in interstices. Void filled and bound with AL & Adh/Poly tape. Layer #2: 6 Element C's with 4 Element D's and 2 drain wires placed in major interstices and 6 drain wires placed in minor interstices. Void filled and bound with AL & Adh/poly tape.	0.204	5.18			
	0.393	10.0			
	1.127	28.6			



PROPRIETARY; Use Pursuant to Company Instructions

## PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C

### PHYSICAL

	Metric	English
Weight in Air	5,573 kg/km	3,745 lb/kft
Weight in Sea Water	4,271 kg/km	2,870 lb/kft
Specific Gravity	4.4	4.4

### MECHANICAL

Breaking Strength	623 kN	140,000 lbf
Working Load	151 kN	34,000 lbf
Recommended Bend Radius *	84 cm	33 in

### ELECTRICAL

Voltage Rating		
Element A	1,200 Volts	1,200 Volts
Element B	1,200 Volts	1,200 Volts
Element C	3,300 Volts	3,300 Volts
dc Resistance		
Element A	32.5 Ω/km	9.9 Ω/kft
Element B	24.4 Ω/km	7.45 Ω/kft
Element C	0.92 Ω/km	0.28 Ω/kft
Insulation Resistance		
Element A	3,000 MΩ•km	10,000 MΩ•kft
Element B	3,000 MΩ•km	10,000 MΩ•kft
Element C	9,000 MΩ•km	30,000 MΩ•kft
Dissipation		
Element C @ 77 amps/3Ø	82 M ergs/M	2.5 W/ft

### OPTICAL

Attenuation Rate		
Element D		
@ 1310 nm	0.45 dB/km	--
@ 1550 nm	0.30 dB/km	--

\* The relationship between sheave diameter and cable diameter is a critical factor used to establish a product's fatigue resistance or relative serviceability. Operation over smaller than recommended diameters may adversely affect service life.

PROPRIETARY; Use Pursuant to Company Instructions

**tyco** / *Electronics* / **The Rochester Corporation**

Remotely Operated Vehicle Cable			
Code: RMØ2Ø1132HOØØ			
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