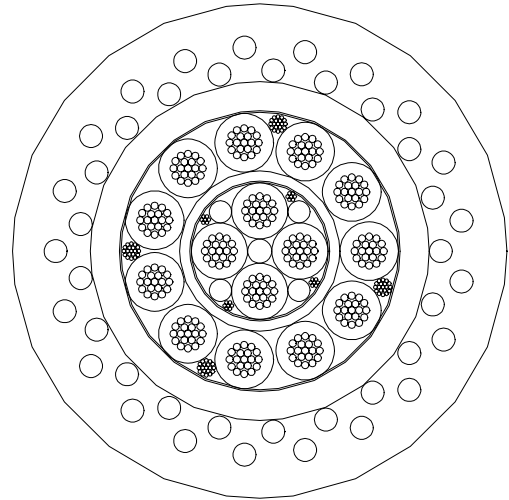


# DATA LINE®

Description	Inch	mm
<u>ELEMENT A; Shielded Quad (1)</u>		
Cdr: #12 AWG (3.08 mm <sup>2</sup> ) Cu	0.086	2.18
Ins: HDPE	0.136	3.45
Assy: 4 cdrs twisted around a fill rod with fill rods and drain wires in interstices. Void filled and bound with Cu/poly tape.	0.332	8.43
Belt: PE	0.400	10.16
<u>ELEMENT B; Power Single (11)</u>		
Cdr: #12 AWG (3.08 mm <sup>2</sup> ) Cu	0.086	2.18
Ins: HDPE	0.142	3.61
<u>ASSEMBLY</u>		
Core: 1 Element A	0.400	10.16
Layer #1: 11 Element B's with 4 drain wires in interstices. Void filled & bound AL/Poly tape.	0.692	17.58
<u>BELT</u>		
Hytrel®	0.836	21.23
<u>JACKET</u>		
HDPE with embedded GIPS wires	1.220	30.99



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PROPRIETARY; Use Pursuant to Company Instructions

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

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## PERFORMANCE CHARACTERISTICS

Nominal Values @ 20 °C

**METRIC**

**ENGLISH**

### PHYSICAL

Weight in Air	1,723 kg/km	1,158 lb/kft
Weight in Seawater	949 kg/km	638 lb/kft
Specific Gravity	2.23	2.23

### MECHANICAL

Breaking Strength	107 kN	24,000 lbf
Installation Load	23 kN	4,750 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
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### CHARACTERISTIC IMPEDANCE

Element A	81 Ω	81 Ω
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### ATTENUATION

Element A (10 kHz)	1.6 dB/km	0.5 db/kft
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