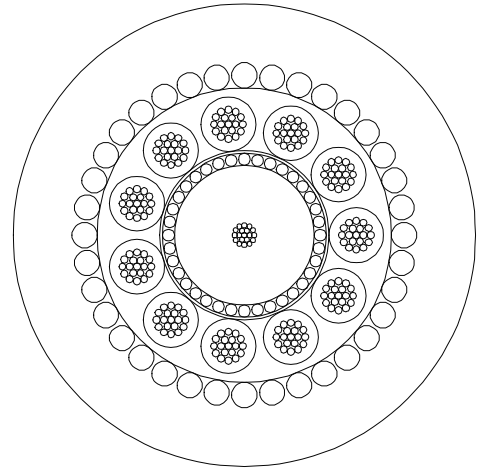


DATALINE®

Description	Inch	mm
<u>ELEMENT A: Coax (1)</u>		
Cdr: #22 AWG (0.38 mm ²) Cu	0.030	0.76
Ins: LDPE	0.177	4.50
<u>Shield: #11 AWG (4.21 mm²)</u>		
Served Cu	0.208	5.28
Shielding Tape: Cu/Poly	0.213	5.41
<u>ELEMENT B: Power Singles (11)</u>		
Cdr: #18 AWG (0.81 mm ²) Cu	0.045	1.14
Ins: PP	0.069	1.75
<u>ASSEMBLY</u>		
Core: (1) Element A	0.213	5.41
Layer #1: (11) Element B's.	0.351	8.92
<u>BELT</u>		
Hytrel®		
<u>ARMOR</u>		
36/0.032" GIPS	0.445	11.30
<u>JACKET</u>		
Hytrel®		
	0.595	15.11



Hytrel® = Dupont Trademark

PROPRIETARY; Use Pursuant to Company Instructions

PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C

	Metric	English
<u>PHYSICAL</u>		
Weight in Air	451 kg/km	303 lb/kft
Weight in Sea Water	266 kg/km	179 lb/kft
Specific Gravity	2.4	2.4
<u>MECHANICAL</u>		
Breaking Strength (Fixed End)	29.4 kN	6,600 lbf
Working Load	7.1 kN	1,600 lbf
Recommended Bend Radius	31 cm	12 in
<u>ELECTRICAL</u>		
Voltage Rating		
Element A	1,000 V	1,000 V
Element B	600 V	600 V
dc Resistance		
Element A		
Cdr	50.9 Ω/km	15.5 Ω/kft
Shield	4.9 Ω/km	1.5 Ω/kft
Element B	25.6 Ω/km	7.8 Ω/kft
Insulation Resistance		
Element A	9,000 MΩ•km	30,000 MΩ•kft
Element B	6,000 MΩ•km	20,000 MΩ•kft
Characteristic Impedance		
Element A @ 1 MHz	76 Ω	76 Ω
Capacitance		
Element A	69 pF/m	21 pF/ft
Attenuation		
Element A		
@ 0.5 MHz	7.2 dB/km	2.2 dB/kft
@ 1.0 MHz	10.8 dB/km	3.3 dB/kft

PROPRIETARY; Use Pursuant to Company Instructions

 **Tyco Electronics** *The Rochester Corporation*

Instrumentation & Control Cable
Code: IE0130351HH00

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12/16/2008	2	K	A300092