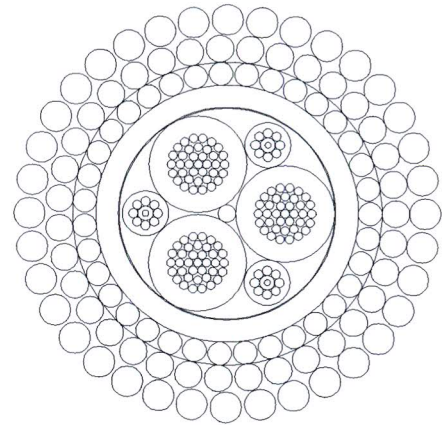


751 Old Brandy Road
Culpeper, Virginia 22701

Tele: 540 825-2111
Fax: 540 825-2238

DATA LINE®

Description	Inch	mm
<u>ELEMENT A: Power Single</u> (3) Cdr: #11 AWG, Hard-drawn Cu Ins: Polyethylene	0.156	3.96
<u>ELEMENT B: Optical Steel-Light®</u> (3) Fiber: 8.3/125/245 µm SMF Buffer: Hytrel® Armor: 8/0.015" Plow Steel Belt: Polyethylene	0.024 0.054 0.074	0.61 1.37 1.88
<u>ASSEMBLY</u> Core: Filler Rod Layer 1: 3 Element B's with 1 Element A in each interstice. Void fill and tape. Belt: Polyethylene	0.030 0.344 0.415	0.76 8.74 10.54
<u>ARMORING</u> 1 st Layer: 35 wires GEIPS 2 nd Layer: 35 wires GEIPS 3 rd Layer: 36 wires GEIPS	0.495 0.583 0.681	12.57 14.81 17.30



PROPRIETARY; Use Pursuant to Company Instructions

 **Tyco Electronics** *The Rochester Corporation*

Instrumentation and Control Cable
Code: IM0060343PO01

Date	Page	Revision	Part No.
01/10/2010	1	W	A302351

PERFORMANCE CHARACTERISTICS

Nominal Values @ 20 °C

METRIC

ENGLISH

PHYSICAL

Weight in Air	1,110 kg/km	746 lb/kft
Weight in Seawater	895 kg/km	601 lb/kft
Specific Gravity (seawater)	5.2	5.2
Operating Temperature	-30 °C to 80 °C	-22 °F to 175 °F

MECHANICAL

Breaking Strength (Fixed End)	186 kN	42,000 lbf
Breaking Strength (Free End)	186 kN	42,000 lbf
Working Load @ 0.35% Strain	44.5 kN	10,000 lbf
Working Load @ 0.5% Strain	64.5 kN	14,500 lbf
Rotation @ 14,500 lbf	<3.3 °/m	<1 °/ft
Recommended Bend Radius @ 10,000 lbf	35 cm	14 inches
Recommended Bend Radius @ 14,000 lbf	61 cm	24 inches

ELECTRICAL

Voltage Rating @ 123 volts/mil	2,800 Vdc	2,800 Vdc
Insulation Resistance	3,000 MΩ.km	10,000 MΩ.kft
dc Resistance	4.9 Ω/km	1.5 Ω/kft

OPTICAL

Attenuation		
@ 1310 nm	0.7 dB/km	--
@ 1550 nm	0.7 dB/km	--
Proof Test	1,380 N/mm ²	200 kpsi

PROPRIETARY; Use Pursuant to Company Instructions

 **Tyco Electronics** *The Rochester Corporation*

Instrumentation and Control Cable
Code: IM0060343PO01

Date	Page	Revision	Part No.
01/10/2010	2	W	A302351