751 Old Brandy Road
Culpeper, Virginia 22701

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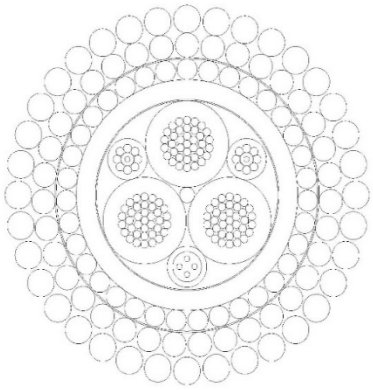
DATALINE®

Description	Inch	mm
ELEMENT A; Power Single (3)		
Cdr: #11 AWG (3.78 mm²) HD Cu	0.097	2.46
Ins: HDPE	0.156	3.96
ELEMENT B; Optical Steel-Light® (2)		
Fbr: 8.3/125/245 µm SM	0.010	0.25
Bffr: Hytrel®	0.024	0.61
Armr: 8/0.015" Plow Steel	0.054	1.37
Belt: HDPE	0.074	1.88
ELEMENT C; Optic Tube (1)		
Fbr: 8.2/125/242 µm SMF (4)	0.010	0.25
Tube: Type 304 SS	0.074	1.88
ASSEMBLY		
Core: Fill Rod	0.030	0.76
Layer 1: 3 A's with 2 B's and 1 C in interstices. Void filled and bound with Adh/Poly tape.	0.344	8.74
BELT		
HDPE	0.415	10.54
STRENGTH MEMBER		
Layer #1: 35/0.0375" GEIPS	0.495	12.57
Layer #2: 35/0.044" GEIPS	0.583	14.81
Layer #3: 36/0.050" GEIPS	0.681	17.30



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TE connectivity *Rochester Wire & Cable*

PROPRIETARY; Use Pursuant to Company Instructions

Instrumentation and Control Cable
Code: IM0090343PO05

Date	Page	Revision	Part No.
04/13/2015	1	B	A309063

PERFORMANCE CHARACTERISTICS

Nominal Values @ 20℃	Metric	English
PHYSICAL		
Weight in Air	1,123 kg/km	754 lb/kft
Weight in Seawater	908 kg/km	610 lb/kft
Specific Gravity	5.2	5.2
Operating Temperature	-30℃ to 80℃	-22℉ to 175℉
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 in
Recommended Bend Radius @ 14,000 lbf	61 cm	24 in
ELECTRICAL		
Voltage Rating @ 123 V/mil		
Element A	2,800 V	2,800 V
dc Resistance		
Element A	4.9 Ω/km	1.5 Ω/kft
Insulation Resistance		
Element A	3,000 MΩ•km	10,000 MΩ•kft
OPTICAL		
Attenuation Rate		
Element B and C		
@ 1310 nm	0.45 dB/km	- -
@ 1550 nm	0.30 dB/km	- -