751 Old Brandy Road
Culpeper, Virginia 22701

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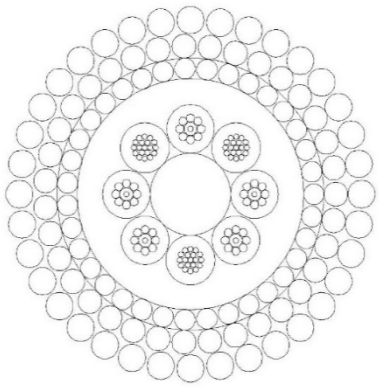
DATALINE®

Description	Inch	mm
ELEMENT A; Optical Steel-Light® (5)		
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	0.088	2.24
ELEMENT B; Power Single (3)		
Cdr: #17 AWG (0.96 mm^2)HD Cu	0.048	1.22
Ins: HDPE	0.088	2.24
ASSEMBLY		
Core: Fill Rod	0.148	3.76
Layer 1: 5 Element A's and 3 Element B's.	0.324	8.23
BELT		
Extruded to round with PU.	0.415	10.54
STRENGTH MEMBER		
Layer #1: 35/0.0375" GEIPS void filled and taped.	0.493	12.52
Layer #2: 35/0.044" GEIPS	0.581	14.76
Layer #3: 36/0.050" GEIPS	0.681	17.30



PROPRIETARY; Use Pursuant to Company Instructions

Tyco Electronics *The Rochester Corporation*

Instrumentation and Control Cable
Code: IM0080323HO00

Date	Page	Revision	Part No.
02/01/2011	1	D	A306499

PERFORMANCE CHARACTERISTICS

Nominal Values @ 20℃	Metric	English
PHYSICAL		
Weight in Air	1,059 kg/km	712 lb/kft
Weight in Seawater	844 kg/km	567 lb/kft
Specific Gravity	4.9	4.9
MECHANICAL		
Breaking Strength	195.7 kN	44,000 lbf
Working Load @ 0.40% Strain	48.9 kN	11,000 lbf
Maximum Transient Peak Load @ 0.50% Strain*	62.3 kN	14,000 lbf
Recommended Bend Radius**	35 cm	14 in
ELECTRICAL		
Voltage Rating		
Element B	1,200 V	1,200 V
dc Resistance		
Element B	20.9 Ω/km	6.4 Ω/kft
Insulation Resistance		
Element B	9,000 MΩ•km	30,000 MΩ•kft
OPTICAL		
Attenuation Rate		
Element A		
@ 1310 nm	0.45 dB/km	- -
@ 1550 nm	0.30 dB/km	- -

*Anticipated peak dynamic load. This assumes controlled conditions with no shock loading.

**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 sheave diameters may adversely affect service life.