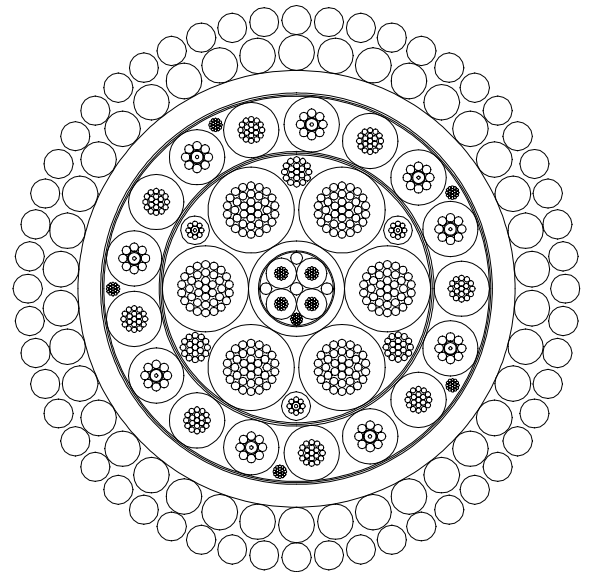


DATA LINE®

Description	Inch	mm	Description	Inch	mm
<u>ELEMENT A; Shielded Quad (1)</u>			<u>ASSEMBLY</u>		
Cdr: #19 AWG (0.62 mm ²) Cu	0.039	0.99	Core: 1 Element A	0.282	7.16
Ins: Polyethylene	0.090	2.29	Layer #1: 6 Element B's with 3 Element F's and 3-#12 AWG (3.08 mm ²) drain wires in interstices. Void filled and bound with SC fabric and Al/Poly tapes.	0.810	20.57
Assy: 4 ins. cdrs around a plastic monofilament with drain wires and plastic monofilaments in interstices. Void filled and taped.	0.230	5.84	Layer #2: 8 Element C's, 6 Element D's, and 3 Element E's with 5-#18 (0.81 mm ²) drain wires in interstices. Void filled and bound with Al/Poly and Ad/Poly tapes.	1.152	29.26
Belt: Polyethylene	0.282	7.16			
<u>ELEMENT B; Power Conductor (6)</u>			<u>BELT</u>		
Cdr: #7 AWG (10.50 mm ²) Cu	0.159	4.04	Hytrel®	1.288	32.72
Ins: Polyethylene	0.254	6.45			
<u>ELEMENT C; Power Conductor (8)</u>			<u>STRENGTH MEMBER</u>		
Cdr: #13 AWG (2.43 mm ²) Cu	0.077	1.96	Layer #1: 38/0.105" GIPS	1.498	38.05
Ins: Polyethylene	0.163	4.14	Layer #2: 52/0.086" GIPS	1.670	42.42
<u>ELEMENT D; Steel-Light® (6)</u>					
Fbr: 62.5/125/245 µm MM	0.010	0.25			
Bffr: Hytrel®/Nylon	0.042	1.07			
Arm: 8/0.0253" Plow Steel	0.092	2.34			
Belt: Polyethylene	0.163	4.14			
<u>ELEMENT E; Steel-Light® (3)</u>					
Fbr: 8.3/125/245 µm SM	0.010	0.25			
Bffr: Hytrel®/Nylon	0.042	1.07			
Arm: 8/0.0253" Plow Steel	0.092	2.34			
Belt: Polyethylene	0.163	4.14			
<u>ELEMENT F; Steel-Light® (3)</u>					
Fbr: 8.3/125/245 µm SM	0.010	0.25			
Bffr: Hytrel®	0.024	0.61			
Arm: 8/0.015" Plow Steel	0.054	1.37			
Belt: Polyethylene	0.085	2.16			



Note: All interstices are void filled.
This design is in accordance with UNOLS
Specification (and Appendix A) as applicable.

Hytrel® is a registered trademark of DuPont.

PROPRIETARY; Use Pursuant to Company Instructions

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PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C	Metric	English
<u>PHYSICAL</u>		
Weight in Air	5,439 kg/km	3,655 lb/kft
Weight in Seawater	4,123 kg/km	2,771 lb/kft
Specific Gravity	4.2	4.2
<u>MECHANICAL</u>		
Breaking Strength	641 kN	144,000 lbf
Working Load*	156 kN	35,000 lbf
Recommended Bend Radius**	84 cm	33 in
<u>ELECTRICAL</u>		
Voltage Rating		
Element A	1,000 V	1,000 V
Element B	3,000 V	3,000 V
Element C	3,000 V	3,000 V
dc Resistance		
Element A	31.8 Ω/km	9.7 Ω/kft
Element B	2.0 Ω/km	0.6 Ω/kft
Element C	8.5 Ω/km	2.6 Ω/kft
Insulation Resistance		
Element A	9,000 MΩ•km	30,000 MΩ•kft
Element B	6,000 MΩ•km	20,000 MΩ•kft
Element C	9,000 MΩ•km	30,000 MΩ•kft
<u>OPTICAL</u>		
Attenuation Rate		
Element D		
@ 850 nm	3.8 dB/km	--
@ 1300 nm	1.8 dB/km	--
Element E & F		
@ 1310 nm	0.45 dB/km	--
@ 1550 nm	0.35 dB/km	--
Bandwidth		
Element D		
@ 850 nm	< 400 MHz•km	--
@ 1300 nm	< 600 MHz•km	--

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

**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 diameters may adversely affect service life.

PROPRIETARY; Use Pursuant to Company Instructions

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