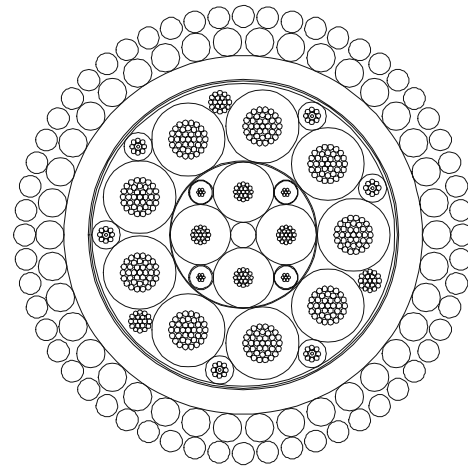


DATA LINE[®]

Description	Inch	mm	Description	Inch	mm
<u>ELEMENT A; Power Single (4)</u> Cdr: #15 AWG (1.53 mm ²) Cu Insul: Polyethylene	0.195	4.95	<u>BELT</u> Hytrel [®]	1.112	28.24
<u>ELEMENT B; Shielded Conductor (4)</u> Cdr: #22 AWG (0.33mm ²) Cu Insul: Polypropylene Shld: AL/Poly tape	0.068	1.73	<u>STRENGTH MEMBER</u> Layer #1; 38/0.090" GIPS Layer #2; 56/0.069" GIPS	1.292	32.82
<u>ELEMENT C; Power Single (9)</u> Cdr: #9 AWG (6.01mm ²) Cu Insul: Polyethylene	0.230	5.84			
<u>ELEMENT D; Optical Steel-Light[®] (6)</u> Fbr: 8.3/125/245 μm SM Bfrr: Hytrel [®] Armor: 8/0.015" Plow Steel Belt: Polyethylene	0.010	0.25			
<u>ASSEMBLY</u> Core; Fill Rod	0.102	2.59			
Layer #1; 4 Element A's with 4 Element B's and 4 drain wires placed in interstices. Void filled and bound with Aluminum Polyester tape.	0.490	12.45			
Layer #2; 9 Element C's with 6 Element D's, and 3 drain wires placed in interstices. Void filled and bound with SC fabric and Aluminum Polyester tapes.	0.960	24.38			



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PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C

	Metric	English
<u>PHYSICAL</u>		
Weight in Air	3,805 kg/km	2,557 lb/kft
Weight in Sea Water	2,838 kg/km	1,907 lb/kft
Specific Gravity	4.1	4.1
<u>MECHANICAL</u>		
Breaking Strength (Fixed End)	449 kN	101,000 lbf
Working Load ¹	122 kN	27,500 lbf
Recommended Bend Radius	74 cm	29 in
<u>ELECTRICAL</u>		
Voltage Rating		
Element A ²	3300 Volts	3300 Volts
Element B	600 Volts	600 Volts
Element C	3300 Volts	3300 Volts
dc Resistance		
Element A	13.9 Ω/km	4.2 Ω/kft
Element B	66.6 Ω/km	20.3 Ω/kft
Element C	3.6 Ω/km	1.1 Ω/kft
Insulation Resistance		
Element A	10,000 MΩ•km	30,000 MΩ•kft
Element B	3,000 MΩ•km	10,000 MΩ•kft
Element C	10,000 MΩ•km	30,000 MΩ•kft
<u>OPTICAL</u>		
Attenuation Rate		
Element D		
@ 1310 nm	0.40 dB/km	--
@ 1550 nm	0.30 dB/km	--

¹The cable working load as stated on the DATALINE (27,500 lbf) represents the maximum quasi-static load of the operational system that will be supported by the cable. Transient dynamic loads may be applied to the cable providing that the maximum dynamic load applied remains below 33,000 lbf and its period is smooth and gradual, greater than several seconds. Caution must be taken with rapid fluctuations in the loading condition that will result in conductor buckling (compression, otherwise known as “z” kinking). These rapid load variations include, but are not limited to, shock loading, the rapid and erratic removal and increasing of load. This load transient has a period less than a few seconds and can result in cable buckling and/or hockling. Extended excursions above the working load value may affect service life and increases the risk of component buckling.”

²Short term peak value. Long term normal operational value is 3000 Volts.

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