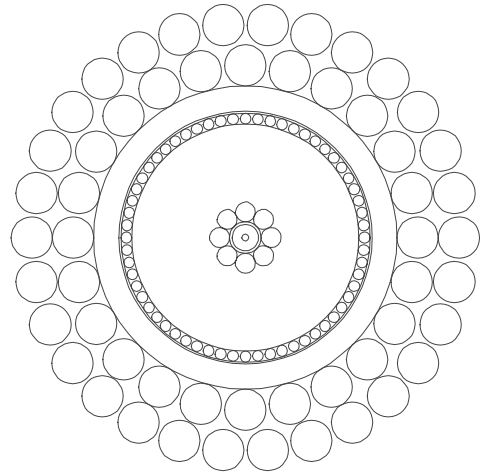


DATA LINE®

Description	Inch	mm
<u>OPTIC WAVEGUIDE</u>		
Fiber: 8.3/125/245 μm SMF	0.010	0.25
Buffer: Hytrel®	0.038	0.97
Belt: Nylon	0.046	1.17
<u>CONDUCTOR</u>		
8/0.0285" (3.3 mm ²) HD Cu	0.103	2.62
<u>INSULATION</u>		
LD Polyethylene	0.329	8.36
<u>RETURN</u>		
60/0.0159" (7.7 mm ²) HD Cu	0.361	9.17
Tape: Cu Polyester	0.369	9.37
<u>BELT</u>		
HD Polyethylene	0.446	11.33
<u>ARMOR (2-Layers)</u>		
24/0.060" GEIPS	0.560	14.22
30/0.060" GEIPS	0.680	17.27



Hytrel® = Dupont Trademark

PROPRIETARY; Use Pursuant to Company Instructions

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PERFORMANCE CHARACTERISTICS

Nominal Values @ 20°C

Metric

English

PHYSICAL

Wt. in Air	1,017 kg/km	684 lb/kft
Wt. in Seawater	806 kg/km	542 lb/kft
Specific Gravity	5.0	5.0
Recommended Temperature Range	-20°C to 80°C	-4°F to 176°F

MECHANICAL

Breaking Strength	178 kN	40,000 lbf
Recommended Working Load	44 kN	10,000 lbf
Recommended Minimum Bend Radius	36 cm	14"

ELECTRICAL

Voltage Rating	3,000 V	3,000 V
Insulation Resistance		
inner to outer cdr. @ 500 Vdc	24,000 MΩ•km	80,000 MΩ•kft
outer cdr. to armor @ 500 Vdc	1,200 MΩ•km	4,000 MΩ•kft
dc Resistance		
inner conductor	5.67 Ω/km	1.73 Ω/kft
outer conductor	2.56 Ω/km	0.78 Ω/kft
Attenuation		
@ 0.1 MHz	1.7 dB/km	0.5 dB/kft
@ 0.5 MHz	3.8 dB/km	1.2 dB/kft
@ 1.0 MHz	5.4 dB/km	1.6 dB/kft
@ 5.0 MHz	12.0 dB/km	3.7 dB/kft
@ 10.0 MHz	17.0 dB/km	5.2 dB/kft
Characteristic Impedance		
@ 1 MHz	50 Ω	50 Ω
Capacitance	105 pF/m	32 pF/ft

OPTICAL

Attenuation	
@ 1310 nm	0.45 dB/km
@ 1550 nm	0.30 dB/km

*Note: 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.

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