

NAVIGATION

CASED HOLE

1/10"
1/8"
3/16"
7/32"
1/4"

9/32"

5/16"

OPEN HOLE

SOUR SERVICE

GEOHERMAL

GREASELESS

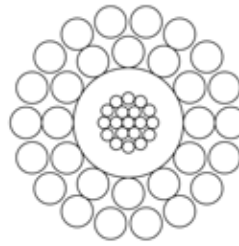
FIBER OPTIC

MECHANICAL WIRELINE

1N29-EHS

9/32" (7.32 mm)

**MONOCONDUCTOR
EXTRA HIGH STRENGTH**



PROPERTIES

Cable Diameter	0.288" +0.005" - 0.002"	(7.32mm +0.13mm -0.05mm)
Minimum Sheave Diameter	16"	(41 cm)
Cable Stretch Coefficient	1.55 ft/Kft/Klbs	(1.74 m/Km/5KN)

ELECTRICAL

Maximum Conductor Voltage	1,500 VDC	
Conductor AWG Rating	15	
Minimum Insulation Resistance	1,500 Mega Ω /Kft @ 500 VDC	(457 Mega Ω /Km @ 500 VDC)
Armor Electrical Resistance	2.8 Ω /Kft	(9.2 Ω /Km)

MECHANICAL

Cable Breaking Strength			
Ends Fixed	10,200 lbs	(45.4 KN)	Nominal
Maximum Suggested Working Tension	5,100 lbs	(22.7 KN)	
Number and Size of Wires			
Inner Armor	12 x 0.0400"	(1.016 mm)	
Outer Armor	18 x 0.0400"	(1.016 mm)	
Average Wire Breaking Strength			
Inner Armor	393 lbs	(1.75 KN)	
Outer Armor	393 lbs	(1.75 KN)	

Cable Type	Core Description									Cable Weight	
	Temperature Rating °F °C			Plastic Type	Insulation Thickness in mm	Copper Construction in mm	Res Typical Ω /Kft Ω /Km	Cap. Typical pf/ft pf/m	O.D. Each in mm	in Air	in H ₂ O
	1 hr. Max Temp	8 hr. Max Temp	Cont. Max Temp								
1N29PP-EHS	300 149	275 135	250 121	Poly	0.0325 0.826	19x0.0142 19x0.361	2.8 9.2	56 184	0.136 3.454	152 226	126 187
1N29PXZ-EHS	420 216	375 191	325 163	Camtane	0.0135 0.343	19x0.0142 19x0.361	2.8 9.2	55 184	0.098 2.489	155 230	128 190
				ETFE	0.019 0.483						
1N29PTZ-EHS	500 260	450 232	400 204	FEP	0.0135 0.343	19x0.0142 19x0.361	2.8 9.2	50 180	0.098 2.489	157 234	130 193
				ETFE	0.019 0.483						

- ▶ The armor wires are Galvanized Extra Improved Plow Steel (GEIPS), and coated with anti-corrosion compound for protection during shipping and storing. Wires are preformed.
- ▶ Core assembly – Copper strand consists of a total of nineteen wires. Conductor resistance is measured at 68° F. Voids in the copper strand are filled with a water-blocking agent to reduce water and gas migration.
- ▶ SUPERSEAL, a special pressure seal agent, is applied between armor layers.
- ▶ The temperature rating assumes a normal gradient for both temperature and weight.
- ▶ All values shown are nominal or typical values.