

NAVIGATION

CASED HOLE

1/10"
1/8"
3/16"
7/32"
1/4"
9/32"
5/16"

OPEN HOLE

SOUR SERVICE

GEOHERMAL

GREASELESS

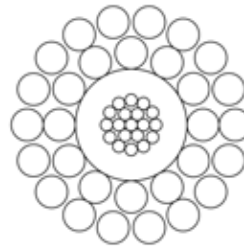
FIBER OPTIC

MECHANICAL WIRELINE

1N32

5/16" (8.18 mm)

MONOCONDUCTOR



PROPERTIES

Cable Diameter	0.322" +0.005" - 0.002"	(8.18mm +0.13mm -0.05mm)
Minimum Sheave Diameter	18"	(46 cm)
Cable Stretch Coefficient	1.2 ft/Kft/Klbs	(1.35 m/Km/5KN)

ELECTRICAL

Maximum Conductor Voltage	1,500 VDC	
Conductor AWG Rating	15	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance	2.1 Ω/Kft	(6.9 Ω/Km)

MECHANICAL

Cable Breaking Strength			
Ends Fixed	12,000 lbs	(53.3 KN)	Nominal
Maximum Suggested Working Tension	6,000 lbs	(26.6 KN)	
Number and Size of Wires			
Inner Armor	12 x 0.0445"	(1.130 mm)	
Outer Armor	18 x 0.0445"	(1.130 mm)	
Average Wire Breaking Strength			
Inner Armor	442 lbs	(1.97 KN)	
Outer Armor	442 lbs	(1.97 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								
1N32PP	300	275	250	Poly	0.042	19x0.0142	2.8	48	0.155	187	155
	149	135	121		1.067	19x0.361	9.2	158	3.937	278	230
1N32PXZ	420	375	325	TPX	0.022	19x0.0142	2.8	47	0.115	190	157
	216	191	163	ETFE	0.020	19x0.361	9.2	154	2.921	282	233
1N32PTZ	500	450	400	FEP	0.0245	19x0.0142	2.8	46	0.120	194	160
	260	232	204	ETFE	0.622 0.0175 0.445	19x0.361	9.2	151	3.048 0.155 3.937	288	238

- ▶ The armor wires are high tensile, 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.