

## NAVIGATION

CASED HOLE  
OPEN HOLE  
SOUR SERVICE  
GEOTHERMAL

7/32"

5/16"

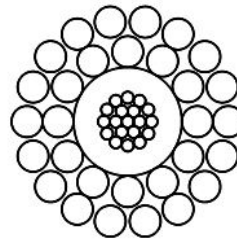
15/32"

GREASELESS  
FIBER OPTIC  
MECHANICAL WIRELINE

# 1N22

7/32" (5.69 mm)  
MONOCONDUCTOR

## GeoSteam™



### PROPERTIES

Cable Diameter	0.224" +0.005" - 0.002"	(5.69mm +0.13mm -0.05mm)
Minimum Sheave Diameter	14"	(36 cm)
Cable Stretch Coefficient	2.5 ft/Kft/Klbs	(2.81 m/Km/5KN)

### ELECTRICAL

Maximum Conductor Voltage	1,200 VDC	
Conductor AWG Rating	16	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500 VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance	4.4 Ω/Kft	(14.4 Ω/Km)

### MECHANICAL

Cable Breaking Strength			
Ends Fixed	5,600 lbs	(24.9 KN)	Nominal
Maximum Suggested Working Tension	2,800 lbs	(12.45 KN)	
Number and Size of Wires			
Inner Armor	12 x 0.0310"	(0.787 mm)	
Outer Armor	18 x 0.0310"	(0.787 mm)	
Average Wire Breaking Strength			
Inner Armor	215 lbs	(0.96 KN)	
Outer Armor	215 lbs	(0.96 KN)	

Cable Type	Core Description									Cable Weight	
	Temperature Rating			Plastic Type	Insulation Thickness	Copper Construction	Res Typical	Cap. Typical	O.D. Each	in Air	in H <sub>2</sub> O
	°F	°C								in mm	in mm
	1 hr. Max Temp	8 hr. Max Temp	Cont. Max Temp								
<b>1N22WG</b>	<b>600</b> 316	<b>550</b> 288	<b>500</b> 260	<b>ECA</b>	<b>0.0245</b> 0.662	<b>19x0.0119</b> 19x0.302	<b>4.7</b> 15.4	<b>55</b> 190	<b>0.108</b> 2.743	<b>97</b> 144	<b>80</b> 119

- ▶ 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.
- ▶ Conductor has nickel plated wires adhering to ASTM B355 Class 10 for increased corrosion resistance.
- ▶ 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.