

NAVIGATION

CASED HOLE

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

OPEN HOLE

SOUR SERVICE

GEOTHERMAL

GREASELESS

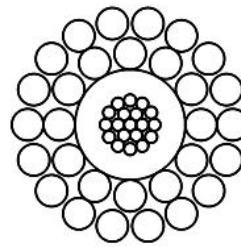
FIBER OPTIC

MECHANICAL WIRELINE

1N22

7/32" (5.69 mm)

MONOCONDUCTOR



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 Mega Ω /Kft @ 500VDC	(457 Mega Ω /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	(12.5 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 ₂ O
	°F	°C								in mm	in mm
1N22PP	300	275	250	Poly	0.0245	19x0.0119	4.1	61	0.108	93	77
	149	135	121		0.622	19x0.302					
1N22PXZ	420	375	325	TPX	0.0130	19x0.0119	4.1	61	0.085	94	78
	216	191	163	ETFE	0.0115	19x0.302					
1N22PTZ	500	450	400	FEP	0.015	19x0.0119	4.1	59	0.085	96	90
	260	232	204	ETFE	0.0245	19x0.302					
					0.622				2.743		

- ▶ 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.