



1K22

7/32" (5.69 mm)
MONOCONDUCTOR

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

PROPERTIES

Cable Diameter	0.224" +0.005" - 0.002"	(5.69mm +0.13mm -0.05mm)
Minimum Sheave Diameter	14"	(36cm)
Cable Stretch Coefficient	2.2 ft/Kft/Klbs	(2.5 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	4.3 Ω /Kft	(14.1 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	15 x 0.0243"	(0.617 mm)
Outer Armor	15 x 0.0358"	(0.909 mm)
Average Wire Breaking Strength		
Inner Armor	132 lbs	(0.59 KN)
Outer Armor	286 lbs	(1.27 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
	1 hr. Max Temp	8 hr. Max Temp	Cont. Max Temp							in mm	in mm
1K22PP	300 149	275 135	250 121	Poly	0.0245 0.622	19x0.0119 19x0.302	4.1 13.5	60 197	0.108 2.743	91 136	75 112
1K22PXZ	420 216	375 191	325 163	TPX ETFE	0.0130 0.330 0.0115 0.292	19x0.0119 19x0.302	4.1 13.5	61 200	0.085 2.159 0.108 2.743	92 137	76 114
1K22PTZ	500 260	450 232	400 204	FEP ETFE	0.0130 0.330 0.0115 0.292	19x0.0119 19x0.302	4.1 13.5	58 190	0.085 2.159 0.108 2.743	95 140	78 116

- ▶ 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.
- ▶ Copper strand consists of a total of nineteen wires. Voids in the copper strand are filled with a water-blocking agent to reduce water and gas migration. Conductor resistance is measured at 68° F.
- ▶ 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.