



# 1N32-EEHS

5/16" (8.18 mm)  
MONOCONDUCTOR  
EXTRA EXTRA HIGH STRENGTH

## 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	0.322" +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 @ 500 VDC	(457 MegaΩ/Km @ 500 VDC)
Armor Electrical Resistance	2.1 Ω/Kft	(6.9 Ω/Km)

## MECHANICAL

Cable Breaking Strength			
Ends Fixed	14,750 lbs	(65.63 KN)	Nominal
Maximum Suggested Working Tension	7,375 lbs	(32.7 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	564 lbs	(2.5 KN)	
Outer Armor	564 lbs	(2.5 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 <sub>2</sub> O
	1 hr. Max Temp	8 hr. Max Temp	Cont. Max Temp							lbs/Kft Kg/Km	
<b>1N32PP-EEHS</b>	<b>300</b> 149	<b>275</b> 135	<b>250</b> 121	<b>Poly</b>	<b>0.042</b> 1.067	<b>19x0.0142</b> 19x0.361	<b>2.8</b> 9.2	<b>48</b> 158	<b>0.155</b> 3.937	<b>187</b> 278	<b>155</b> 230
<b>1N32PTZ-EEHS</b>	<b>500</b> 260	<b>450</b> 232	<b>400</b> 204	<b>FEP</b>	<b>0.0245</b> 0.622	<b>19x0.0142</b> 19x0.361	<b>2.8</b> 9.2	<b>46</b> 151	<b>0.120</b> 3.048	<b>194</b> 288	<b>160</b> 238
				<b>ETFE</b>	<b>0.0175</b> 0.445						

- ▶ The armor wires are high tensile, Galvanized Extra Extra Improved Plow Steel (GEEIPS), 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.