



**7/16" (10.80 mm) MONOCONDUCTOR
1N42**
LOW RESISTANCE
HIGH STRENGTH

PROPERTIES:

Cable Diameter:	0.425" +0.006" - 0.002"	(10.80mm + 0.15mm -0.05mm)
Minimum Sheave Diameter:	24"	(61 cm)
Cable Stretch Coefficient	0.70 ft/Kft/Klbs	(0.79 m/Km/5KN)

ELECTRICAL:

Maximum Conductor Voltage	1,500 VDC	
Conductor AWG Rating	13	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance:	1.2 Ω/Kft	(3.90 Ω/Km)

MECHANICAL:

Cable Breaking Strength:

Ends Fixed:	19,500 lbs	(86.8 KN)	Nominal
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Maximum Suggested Working Tension:

9,750 lbs	(43.4 KN)
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Number and Size of Wires:

Inner Armor	12 x 0.0585"	(1.490 mm)
Outer Armor	18 x 0.0585"	(1.490 mm)

Average Wire Breaking Strength:

Inner Armor	764 lbs	(3.4 KN)
Outer Armor	764 lbs	(3.4 KN)

Cable Type	Core Description							Cable Weight		
	Temp Rating	Plastic Type	Insulation Thickness	Copper Construction	Res Typical	Cap. Typical	O.D. Each	in Air	in H2O	Spec. Gravity
	°F °C							lbs/Kft Kg/Km		
1N42PTZ-LR-HS	500	FEP	0.0260	19x0.0172	2.3	37	0.136	334	281	6.38
	260		0.660	19x0.437	7.5	121	3.454	497	418	
		ETFE	0.035				0.206			
			0.890				5.232			

- * The tensile strength of each wire lies in the range from 300 to 313 KPSI. The armor wires are Galvanized Extra Improved Plow Steel (GEIPS), and coated with anti-corrosion compound for protection during shipping and storing. Wires are preformed and cables are post tensioned.
- * 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.