



## 1/10" (2.56 mm) MONOCONDUCTOR 1N10

**PROPERTIES:**

Cable Diameter:	0.101" +0.004" -0.002"	(2.56mm + 0.10mm -0.05mm)
Minimum Sheave Diameter:	6"	(15 cm)
Cable Stretch Coefficient	13.1 ft/Kft/Klbs	(14.72 m/Km/5KN)

**ELECTRICAL:**

Maximum Conductor Voltage	300 VDC	
Conductor AWG Rating	24	
Minimum Insulation Resistance	1,500 Mega $\Omega$ /Kft @ 500VDC	(457 Mega $\Omega$ /Km @ 500VDC)
Armor Electrical Resistance:	22.0 $\Omega$ /Kft	(72.2 $\Omega$ /Km)

**MECHANICAL:**

Cable Breaking Strength:		
Ends Fixed:	1,000 lbs	(4.4 KN) Nominal
Maximum Suggested Working Tension:	500 lbs	(2.2 KN)
Number and Size of Wires:		
Inner Armor	12 x 0.0140"	(0.356 mm)
Outer Armor	18 x 0.0140"	(0.356 mm)
Average Wire Breaking Strength:		
Inner Armor	42 lbs	(0.19 KN)
Outer Armor	42 lbs	(0.19 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		in mm	in mm	$\Omega$ /Kft $\Omega$ /Km	pf/ft pf/m	in mm	lbs/Kft Kg/Km		
1N10RP	300 149	Poly	0.012 0.305	7x0.0085 7x0.216	21.0 69.0	51 167	0.049 1.244	19 28	16 24	6.42

- \* 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 six wires around one center wire. 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.