



## 1/8" (3.20 mm) MONOCONDUCTOR 1N12

**PROPERTIES:**

Cable Diameter:	0.126" +0.004" -0.002"	(3.20mm + 0.10mm -0.05mm)
Minimum Sheave Diameter:	7"	(18 cm)
Cable Stretch Coefficient	6.5 ft/Kft/Klbs	(7.30 m/Km/5KN)

**ELECTRICAL:**

Maximum Conductor Voltage	300 VDC	
Conductor AWG Rating	24	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance:	13.0 Ω/Kft	(42.6 Ω/Km)

**MECHANICAL:**

Cable Breaking Strength:			
Ends Fixed:	1,600 lbs	(7.1 KN)	Nominal
Maximum Suggested Working Tension:	800 lbs	(3.5 KN)	
Number and Size of Wires:			
Inner Armor	12 x 0.0175"	(0.444 mm)	
Outer Armor	18 x 0.0175"	(0.444 mm)	
Average Wire Breaking Strength:			
Inner Armor	65 lbs	(0.29 KN)	
Outer Armor	65 lbs	(0.29 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	Ω/Kft Ω/Km	pf/ft pf/m	in mm	lbs/Kft Kg/Km		
1N12RP	300 149	Poly	0.0175 0.444	7x0.0085 7x0.216	21.0 69.0	41 134	0.060 1.524	28 42	24 36	6.31
1N12RZ	500 260	ETFE	0.0175 0.444	7x0.0085 7x0.216	21.0 69.0	48 157	0.060 1.524	30 45	25 37	6.52

- \* 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.