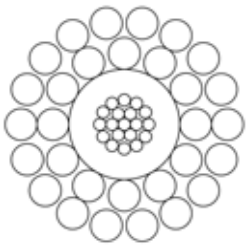
1N29-S77

9/32” (7.32 mm) MONOCONDUCTOR CORROSION RESISTANT



PROPERTIES

Cable Diameter	0.288” +0.005” - 0.002”	(7.32mm +0.13mm -0.05mm)
Minimum Sheave Diameter	16”	(41 cm)
Cable Stretch Coefficient	1.87ft/Kft/Klbs	(2.101 m/Km/5KN)

ELECTRICAL

Maximum Conductor Voltage	1,500 VDC	
Conductor AWG Rating	16	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500 VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance	11.3 Ω/Kft	(37.1 Ω/Km)

MECHANICAL

Cable Breaking Strength			
Ends Fixed	8,100 lbs	(36.0 KN)	Nominal
Maximum Suggested Working Tension	4,050 lbs	(18.0 KN)	
Number and Size of Wires			
Inner Armor	12 x 0.0400”	(1.016 mm)	
Outer Armor	18 x 0.0400”	(1.016 mm)	
Average Wire Breaking Strength			
Inner Armor	314 lbs	(1.40 KN)	
Outer Armor	314 lbs	(1.40 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_2O
	1 hr. Max Temp	8 hr. Max Temp	Cont. Max Temp							lbs/Kft Kg/Km	
1N29WTZ-S77	**500** 260	**450** 232	**400** 204	**FEP** **ETFE**	**0.017** 0.432 **0.019** 0.483	**19x0.0128** 19x0.325	**4.0** 13.1	**48** 157	**0.098** 2.489 **0.136** 3.454	**159** 236	**131** 195

- While insulation is rated to 1-hour exposure of 500°F, alloy armor wires may have reduced corrosion resistance at temperatures above 400°F.
- The armor wires are made of corrosion resistant alloy steel suitable for moderate H2S and CO2 environments.
- Conductor has nickel plated wires adhering to ASTMB355 Class 10 for increased corrosion resistance.
- 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.