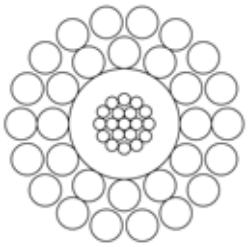
1N32-S77

5/16” (8.18 mm) MONOCONDUCTOR CORROSION RESISTANT



PROPERTIES

Cable Diameter	0.322” +0.005” - 0.002”	(8.18mm +0.13mm -0.05mm)
Minimum Sheave Diameter	18”	(46 cm)
Cable Stretch Coefficient	1.58 ft/Kft/Klbs	(1.775 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 @ 500VDC)
Armor Electrical Resistance	9.1 Ω/Kft	(29.9 Ω/Km)

MECHANICAL

Cable Breaking Strength			
Ends Fixed	10,000 lbs	(44.50 KN)	Nominal
Maximum Suggested Working Tension	5,000 lbs	(22.25 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	388.8 lbs	(1.73 KN)	
Outer Armor	388.8 lbs	(1.73 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	
1N32WTZ-S77	**500** 260	**450** 232	**400** 204	**FEP** **ETFE**	**0.0245** 0.622 **0.0175** 0.444	**19x0.0142** 19x0.361	**3.2** 10.5	**45** 148	**0.120** 3.048 **0.155** 3.937	**198** 294	**163** 243

- 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.