

**5/16" (8.18 mm)
MONOCONDUCTOR
1N32**

PROPERTIES:

Cable Diameter:	0.322" +0.005" - 0.002"	(8.18mm + 0.13mm -0.05mm)
Minimum Sheave Diameter:	18"	(45 cm)
Cable Stretch Coefficient	1.2 ft/Kft/Klbs	(1.35 m/Km/5KN)

ELECTRICAL:

Maximum Conductor Voltage	1,500 VDC	
Conductor AWG Rating	15	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance:	2.1 Ω/Kft	(6.9 Ω/Km)

MECHANICAL:

Cable Breaking Strength:

Ends Fixed:	11,600 lbs	(49.0 KN)	Nominal
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Maximum Suggested Working Tension:

5,800 lbs	(24.5 KN)
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Number and Size of Wires:

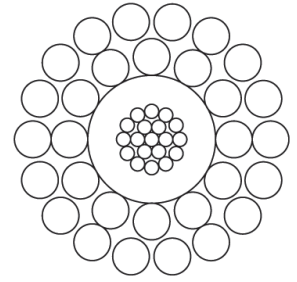
Inner Armor	12 x 0.0445"	(1.130 mm)
Outer Armor	18 x 0.0445"	(1.130 mm)

Average Wire Breaking Strength:

Inner Armor	420 lbs	(1.87 KN)
Outer Armor	420 lbs	(1.87 KN)

Cable Type	Core Description							Cable Weight		
	Temp 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 H2O	Spec. Gravity
1N32PP	300	Poly	0.042	19x0.0142	2.8	46	0.155	188	158	6.32
	149		1.067	19x0.361	9.2	151	3.937	280	235	
1N32PXZ	420	Camtane ETFE	0.022	19x0.0142	2.8	47	0.115	191	161	6.43
	216		0.560	19x0.361	9.2	154	2.921	284	240	
1N32PTZ	500	FEP ETFE	0.022	19x0.0142	2.8	45	0.120	195	165	6.56
	260		0.560	19x0.361	9.2	148	3.048	290	246	
			0.020				0.155			
			0.508				3.937			

- * 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 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.



**5/16" (8.18 mm) MONOCONDUCTOR
1N32 CORROSION RESISTANT
S75**

PROPERTIES:

Cable Diameter:	0.322" +0.005" – 0.002"	(8.18mm + 0.13mm -0.05mm)
Minimum Sheave Diameter:	18"	(45 cm)
Cable Stretch Coefficient	1.2 ft/Kft/Klbs	(1.35 m/Km/5KN)

ELECTRICAL:

Maximum Conductor Voltage	1,500 VDC	
Conductor AWG Rating	15	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance:	8.0 Ω/Kft	(26.2 Ω/Km)

MECHANICAL:
Cable Breaking Strength:

Ends Fixed:	10,400 lbs	(46.3 KN)	Nominal
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Maximum Suggested Working Tension:

5,200 lbs	(23.1 KN)
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Number and Size of Wires:

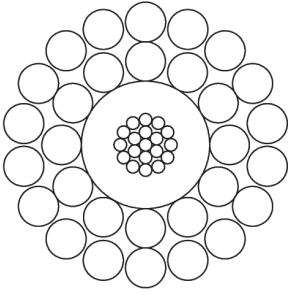
Inner Armor	12 x 0.0445"	(1.130 mm)
Outer Armor	18 x 0.0445"	(1.130 mm)

Average Wire Breaking Strength:

Inner Armor	381 lbs	(1.82 KN)
Outer Armor	381 lbs	(1.82 KN)

Cable Type	Core Description							Cable Weight		
	Temp Rating °F °C	Plastic Insulation	Type Thickness	Copper Construction	Res Typical	Cap. Typical	O.D. Each	in Air	in H2O	Spec. Gravity
			in mm	in mm	Ω/Kft Ω/Km	pf/ft pf/m	in mm	lbs/Kft Kg/Km		
1N32WTZ - S75	See Below	FEP	0.022	19x0.0142	3.3	45	0.120	197	168	6.63
		ETFE	0.560	19x0.361	10.8	148	3.048	293	250	
			0.508				3.937			

- * Insulation is rated to 500° F. Armor wires are rated to 325° F at low exposure to H2S and CO2.
- * The armor wires are made of UNS N08926, a corrosion resistant stainless steel and coated with anti-corrosion compound for protection during shipping and storing. Wires are preformed and cables are post tensioned.
- * The nickel coated copper wires are made of ASTMB355 Class 10 and they are used to increase corrosion protection.
- * 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.



**5/16" (8.26 mm) MONOCONDUCTOR
1N32 CORROSION-RESISTANT
S77**

PROPERTIES:

Cable Diameter:	0.325" +0.005" - 0.002"	(8.18mm + 0.13mm -0.05mm)
Minimum Sheave Diameter:	18"	(45 cm)
Cable Stretch Coefficient	1.2 ft/Kft/Klbs	(1.35 m/Km/5KN)

ELECTRICAL:

Maximum Conductor Voltage	1,500 VDC	
Conductor AWG Rating	15	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance:	8.0 Ω/Kft	(26.2 Ω/Km)

MECHANICAL:

Cable Breaking Strength:

Ends Fixed:	11,000 lbs	(46.0 KN)	Nominal
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Maximum Suggested Working Tension:

5,500 lbs	(22.5 KN)
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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	394 lbs	(1.76 KN)
Outer Armor	394 lbs	(1.76 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	
1N32WTZ-S77	See Below	FEP	0.022	19x0.0142	3.3	45	0.120	197	168	6.77
		ETFE	0.020 0.508	19x0.361	10.8	148	3.048 3.937	293	250	

- * Insulation is rated to 500° F. Armor wires are rated to 425° F at "elevated" levels of H2S + CO2.
- * The armor wires are high tensile, Alloy Wire Sandvik Brand Type 36Mo, 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 of nickel coated. Conductor resistance is measured at 68 deg. 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.
- * Nickel coated copper wire is used to manufacture the conductor to increase corrosion protection.
- * The temperature rating assumes a normal gradient for both temperature and weight.
- * All values shown are nominal or typical values.
- * Tested at 400° F in 24% H2S, 75% CO2, and 15% Chlorides at 1450 PSI.
- * Tested at 350° F in 70% H2S, 15% NACL for (7) days at 5000 PSI.