

9/32" (7.32 mm) MONOCONDUCTOR 1N29 EXTRA HIGH STRENGTH

PROPERTIES:

Cable Diameter:	0.288" +0.005" - 0.002"	(7.32mm + 0.13mm -0.05mm)
Minimum Sheave Diameter:	16"	(41 cm)
Cable Stretch Coefficient	1.55 ft/Kft/Klbs	(1.74 m/Km/5KN)

ELECTRICAL:

Maximum Conductor Voltage	1,500 VDC	
Conductor AWG Rating	16	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance:	2.8 Ω/Kft	(9.2 Ω/Km)

MECHANICAL:

Cable Breaking Strength:

Ends Fixed:	10,300 lbs	(45.8 KN) Nominal
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Maximum Suggested Working Tension:

5,150 lbs	(22.9 KN)
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Number and Size of Wires:

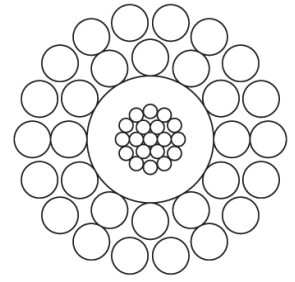
Inner Armor	12 x 0.0400"	(1.016 mm)
Outer Armor	18 x 0.0400"	(1.016 mm)

Average Wire Breaking Strength:

Inner Armor	398 lbs	(1.77 KN)
Outer Armor	398 lbs	(1.77 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	in	Spec. Gravity
								Air	H2O	
1N29PTZ- EHS	500 260	FEP ETFE	0.014	19x0.0128	3.5	54	0.092	159	135	6.71
			0.356	19x0.325	11.5	177	2.337	237	201	
			0.022				0.136			
			0.559				3.454			

- * The tensile strength of each wire lies in the range of 300 to 330 KPSI. The armor wires are Galvanized Extra,Extra Improved Plow Steel (GEEIPS), 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.
- * Not recommended for use in any sour and/or corrosive environment.



**9/32" (7.32 mm) MONOCONDUCTOR
1N29 CORROSION RESISTANT
S75**

PROPERTIES:

Cable Diameter:	0.288" +0.005" - 0.002"	(7.32mm + 0.13mm -0.05mm)
Minimum Sheave Diameter:	16"	(41 cm)
Cable Stretch Coefficient	1.9 ft/Kft/Klbs	(2.13 m/Km/5KN)

ELECTRICAL:

Maximum Conductor Voltage	1,500 VDC	
Conductor AWG Rating	16	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance:	10.0 Ω/Kft	(32.8 Ω/Km)

MECHANICAL:

Cable Breaking Strength:

Ends Fixed: 8,200 lbs (36.5 KN) Nominal

Maximum Suggested Working Tension:

4,100 lbs (18.2 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 308 lbs (1.37 KN)

Outer Armor 308 lbs (1.37 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		
1N29WA- S75	See Below	PFA	0.036 0.091	19x0.0128 19x0.325	4.0 13.1	54 177	0.136 3.454	167 248	142 211	6.73

- * 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.