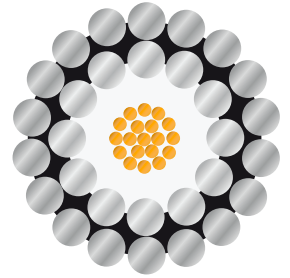


# 5/16" 322 MONOCONDUCTOR S75 (12/18)

8.18 mm

**CONDUCTOR:** Copper, Water Blocked.  
**INSULATION:** PFA/ETFE.  
**ARMOR:** SUPA 75 (UNS N08926)

Special Sealant is applied between armor layers.



Construction Characteristics		English	Metric
Conductor – # 15 AWG, 19 x 0.0142"	dia.	0.071"	1.803 mm
Wall Thickness:		0.042"	1.067 mm
Insulation – OD:	dia.	0.155"	3.937 mm
Armor – Inner: 12 wires 0.0445"	dia.	0.233"	5.918 mm
Armor – Outer: 18 wires 0.0445"	dia.	0.322"	8.179 mm

Mechanical Characteristics		English	Metric
Weight in Air		206 lb/kft	307 kg/km
Weight in Water		176 lb/kft	262 kg/km
Minimum Breaking Strength, Ends Fixed		10,700 lbf	47.59 kN
Minimum Wire Break Strength (In/Out)		380/380 lbf	1690/1690 N
Maximum Working Load		5,885 lbf	26.18 kN
Temperature Rating (Maximum)		500°F	260°C
Suggested Minimum Sheave	dia.	18"	457 mm
Stretch Coefficient (Nominal)		1.1 ft/kft/klb +0.005"	1.24 m/km/5kN +0.127 mm
Outside Diameter	0.322"	-0.002"	8.18 mm -0.051 mm

Electrical Characteristics	English			Metric		
<b>1ZATL</b>						
Temperature Rating	1 hr 500°	8 hr 450°	Cont. 400°	1 hr 260°	8 hr 232°	Cont. 204°
Voltage Rating	1500 VDC			1500 VDC		
D.C. Conductor Resistance at 68° F (20° C) (Maximum)	2.8 Ω/kft			9.2 Ω/km		
D.C. Armor Resistance at 68° F (20° C) (Maximum)	8.0 Ω/kft			26.2 Ω/km		
Capacitance Conductor to Armor (Maximum)	48 pf/ft			157 pf/m		
Insulation Resistance (Minimum) @ 500 VDC	1500 MΩ/kft			5000 MΩ/km		