

5/16" 322 MONOCONDUCTOR MP35 (12/18)

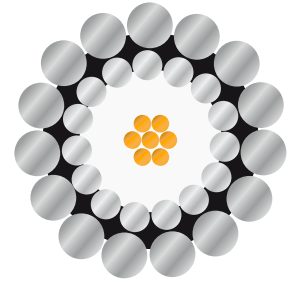
8.18 mm

CONDUCTOR: Copper, Nickel Plated, Water Blocked.

INSULATION: PFA/ETFE.

ARMOR: MP35 (UNS R30035)

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		11,200 lbf	49.82 kN
Minimum Wire Break Strength (In/Out)		395/395 lbf	1757/1757 N
Maximum Working Load		6,160 lbf	27.40 kN
Temperature Rating (Maximum)		500°F	260°C
Suggested Minimum Sheave	dia.	18"	457 mm
Stretch Coefficient (Nominal)		1 ft/kft/klb	1.12 m/km/5kN
Outside Diameter	0.322"	+0.005"	8.18 mm
		-0.002"	-0.051 mm

Electrical Characteristics	English			Metric		
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Temperature Rating	1 hr 550°	8 hr 500°	Cont. 450°	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)	11.0 Ω/kft			36.1 Ω/km		
Capacitance Conductor to Armor (Maximum)	48 pf/ft			157 pf/m		
Insulation Resistance (Minimum) @ 500 VDC	1500 MΩ/kft			5000 MΩ/km		