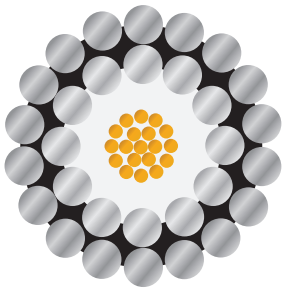
1/4" 258 MONOCONDUCTOR HS (12/18)

6.55 mm



CONDUCTOR: Copper, Water Blocked.
INSULATION: Polypropylene (1ZPL)
ETFE (1ZFTL)
ARMOR: Galvanized high strength steel (GEIPS) preformed and coated with a corrosion preventative lubricant compound.

Special Sealant is applied between armor layers.

Construction Characteristics		English	Metric
Conductor – # 16 AWG, 19 x 0.0119"	dia.	0.060"	1.511 mm
Wall Thickness:		0.032"	0.806 mm
Insulation - OD:	dia.	0.123"	3.124 mm
Armor – Inner: 12 wires 0.0358"	dia.	0.186"	4.735 mm
Armor – Outer: 18 wires 0.0358"	dia.	0.258"	6.553 mm

Mechanical Characteristics		English	Metric
Weight in Air		125 lb/kft	186 kg/km
Weight in Water		102 lb/kft	152 kg/km
Minimum Breaking Strength, Ends Fixed		8,200 lbf	36.47 kN
Minimum Wire Break Strength (In/Out)		294/294 lbf	1308/1308 N
Maximum Working Load		4,510 lbf	20.06 kN
Temperature Rating (Maximum)		500°F	260°C
Suggested Minimum Sheave	dia.	14"	363 mm
Stretch Coefficient (Nominal)		1.6 ft/kft/klb	1.80 m/km/5kN
Outside Diameter	0.258"	+0.005" -0.002" / 6.55 mm	+0.127 mm -0.051 mm

Electrical Characteristics	Temperature Rating			Voltage Rating	D.C. Conductor Resistance at 68° F (20° C) (Maximum)	D.C. Armor Resistance at 68° F (20° C) (Maximum)	Capacitance Conductor to Armor (Maximum)	Insulation Resistance (Minimum) @ 500 VDC
English System								
	1 hr	8 hr	Cont.					
1ZPL	300°	275°	250°	1200 VDC	3.9 Ω/kft	3.3 Ω/kft	52 pf/ft	1500 MΩ/kft
1ZFTL	500°	450°	400°	1200 VDC	3.9 Ω/kft	3.3 Ω/kft	53 pf/ft	1500 MΩ/kft
Metric System								
1ZPL	149°	135°	121°	1200 VDC	12.8 Ω/km	10.8 Ω/km	171 pf/m	5000 MΩ/km
1ZFTL	260°	232°	204°	1200 VDC	12.8 Ω/km	10.8 Ω/km	174 pf/m	5000 MΩ/km