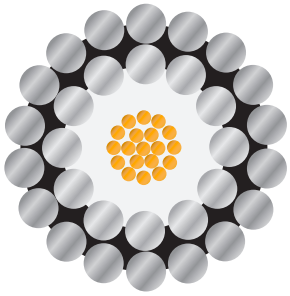
7/16" 425 MONOCONDUCTOR HS (12/18)

10.80 mm

CONDUCTOR: Copper, Water Blocked.
INSULATION: Polypropylene
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 – # 15 AWG, 19 x 0.0142″	dia.	0.071"	1.803 mm
Wall Thickness:		0.067"	1.702 mm
Insulation - OD:	dia.	0.205"	5.207 mm
Armor – Inner: 12 wires 0.0585″	dia.	0.308"	7.823 mm
Armor – Outer: 18 wires 0.0585″	dia.	0.425"	10.795 mm

Mechanical Characteristics		English	Metric
Weight in Air		325 lb/kft	484 kg/km
Weight in Water		273 lb/kft	406 kg/km
Minimum Breaking Strength, Ends Fixed		22,000 lbf	97.86 kN
Minimum Wire Break Strength (In/Out)		773/773 lbf	3438/3438 N
Maximum Working Load		12,100 lbf	53.82 kN
Temperature Rating (Maximum)		300°F	149°C
Suggested Minimum Sheave	dia.	24"	610 mm
Stretch Coefficient (Nominal)		0.6 ft/kft/klb	0.67 m/km/5kN
Outside Diameter	0.425″	+0.005" -0.002"	10.80 mm +0.127 mm -0.051 mm

Electrical Characteristics	English	Metric
1ZPL		
Temperature Rating	1 hr 300° 8 hr 275° Cont. 250°	1 hr 149° 8 hr 135° Cont. 121°
Voltage Rating	1500 VDC	1500 VDC
D.C. Conductor Resistance at 68° F (20° C) (Maximum)	2.7 Ω/kft	8.9 Ω/km
D.C. Armor Resistance at 68° F (20° C) (Maximum)	1.2 Ω/kft	3.9 Ω/km
Capacitance Conductor to Armor (Maximum)	36 pf/ft	118 pf/m
Insulation Resistance (Minimum) @ 500 VDC	1500 MΩ/kft	5000 MΩ/km