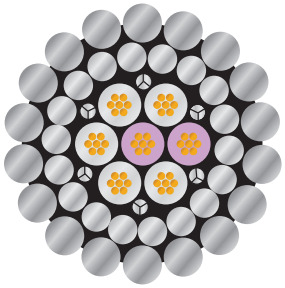
0.490" 490 7-CONDUCTOR HS (20/20)

12.45 mm

CONDUCTOR: Copper, Water Blocked.
INSULATION: FEP/ETFE
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 – # 20 AWG, 7 x 0.0128"	dia.	0.038"	0.975 mm
Wall Thickness:		0.023"	0.579 mm
Insulation conductors: FEP/ETFE	dia.	0.084"	2.134 mm
Insulation jacket: ETFE	dia.	0.295"	7.493 mm
Armor – Inner: 20 wires 0.046"	dia.	0.366"	9.296 mm
Armor – Outer: 20 wires 0.062"		0.490"	12.446 mm

Mechanical Characteristics		English	Metric
Weight in Air		405 lb/kft	602 kg/km
Weight in Water		325 lb/kft	483 kg/km
Minimum Breaking Strength, Ends Fixed		26,000 lbf	115.65 kN
Minimum Wire Break Strength (In/Out)		481/866 lbf	2140/3852 N
Maximum Working Load		14,300 lbf	63.61 kN
Temperature Rating (Maximum)		500°F	260°C
Suggested Minimum Sheave	dia.	25"	635 mm
Stretch Coefficient (Nominal)		0.5 ft/kft/klb	0.56 m/km/5kN
Outside Diameter	0.490"	+0.006" -0.002" / 12.45 mm	+0.152 mm -0.051 mm

Electrical Characteristics	English	Metric
7DFTK		
Temperature Rating	1 hr 500° / 8 hr 450° / Cont. 400°	1 hr 260° / 8 hr 232° / Cont. 204°
Voltage Rating	1200 VDC	1200 VDC
D.C. Conductor Resistance at 68° F (20° C) (Maximum)	9.2 Ω/kft	30.2 Ω/km
D.C. Armor Resistance at 68° F (20° C) (Maximum)	1.0 Ω/kft	3.3 Ω/km
Capacitance Conductor to Armor (Maximum)	48 pf/ft	157 pf/m
Insulation Resistance (Minimum) @ 500 VDC	1500 MΩ/kft	5000 MΩ/km