



**3/8" (9.60mm)
7-CONDUCTOR
7H38**

PROPERTIES:

Cable Diameter:	0.378" +0.005" - 0.002"	(9.60mm + 0.13mm -0.05mm)
Minimum Sheave Diameter:	21"	(53 cm)
Cable Stretch Coefficient	1.4 ft/Kft/Klbs	(1.57 m/km/5KN)

ELECTRICAL:

Maximum Conductor Voltage	1000 VDC	
Conductor AWG Rating	20	
Minimum Insulation Resistance	1,500 MegΩ/Kft @ 500VDC	(457 MegΩ/Km @ 500VDC)
Armor Electrical Resistance:	1.8 Ω/Kft	(5.9 Ω/Km)

MECHANICAL:

Cable Breaking Strength:			
Ends Fixed:	13,000 lbs	(57.8 KN)	Nominal
Maximum Suggested Working Tension:	6,500 lbs	(28.9 KN)	
Number and Size of Wires:			
Inner Armor	18 x 0.0375"	(0.953 mm)	
Outer Armor	18 x 0.0525"	(1.334 mm)	
Average Wire Breaking Strength:			
Inner Armor	298 lbs	(1.33 KN)	
Outer Armor	585 lbs	(2.60 KN)	

Cable Type		Core Description							Cable Weight		
	Temp Rating	Plastic Type	Insulation Thickness	Copper Construction	Res. Typical	Cap. Typical	O.D. Each	Tape Type	in Air	in H2O	Spec. Gravity
	°F °C		in mm	in mm	Ω/Kft ΩKm	pf/ft pf/m	in mm		lbs/Kft Kg/Km		
7H38RP	300 149	Poly	0.0135 0.343	7x0.0128 7x0.325	9.8 32.2	65 213	0.065 1.651	Dacron	254 378	211 314	5.94
7H38RZ	500 260	ETFE	0.0135 0.343	7x0.0128 7x0.325	9.8 32.2	77 253	0.065 1.651	Dacron	261 388	219 326	6.11

- * The armor wires are high tensile, Galvanized Extra Improved Plow Steel (GEIPS), and coated with anti-corrosion compound for protection during shipping and storing. Wires are preformed and cables are post tensioned.
- * Core assembly – Conductors are bound with conductive tape and voids are filled with conductive paste and string.
- * Conductors are "Water Blocked" to reduce water and gas migration. Conductor resistance is measured at 68° F.
- * The temperature rating assumes a normal gradient for both temperature and weight.
- * Center conductor construction is 7x0.0128". The typical capacitance is decreased by approximately 5 to 10% in comparison to the outer conductors.
- * All values shown are nominal or typical values.