



**0.474" (12.04mm) 7-CONDUCTOR
HIGH STRENGTH
7H47**

PROPERTIES:

Cable Diameter:	0.474" +0.005" - 0.002"	(12.04mm + 0.13mm -0.05mm)
Minimum Sheave Diameter:	26"	(66 cm)
Cable Stretch Coefficient	0.61 ft/Kft/Klbs	(0.69 m/km/5KN)

ELECTRICAL:

Maximum Conductor Voltage	1100 VDC	
Conductor AWG Rating	20	
Minimum Insulation Resistance	1,500 MegΩ/Kft @ 500VDC	(457 MegΩ/Km @ 500VDC)
Armor Electrical Resistance:	1.1 Ω/Kft	(3.6 Ω/Km)

MECHANICAL:

Cable Breaking Strength:		
Ends Fixed:	23,600 lbs	(102.8 KN) Nominal
Maximum Suggested Working Tension:	11,800 lbs	(51.4 KN)
Number and Size of Wires:		
Inner Armor	18 x 0.0470"	(1.194 mm)
Outer Armor	18 x 0.0655"	(1.664 mm)
Average Wire Breaking Strength:		
Inner Armor	494 lbs	(2.20 KN)
Outer Armor	958 lbs	(4.26 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	
7H47RP - HS	300 149	Poly	0.023 0.584	7x0.0128 7x0.325	9.8 32.2	46 151	0.084 2.13	Dacron	377 561	311 463	5.68
7H47RXZ - HS	420 216	Camtane	0.0135 0.343	7x0.0128 7x0.325	9.8 32.2	48 157	0.065 1.65	Dacron	386 574	321 478	5.82
		ETFE	0.0095 0.241								
7H47RTZ - HS	500 260	FEP	0.012 0.30	7x0.0128 7x0.325	9.8 32.2	46 151	0.065 1.65	Dacron	392 583	326 485	5.91
		ETFE	0.0095 0.241								

- * The tensile strength of each wire lies in the range of 284 to 313 KPSI. The armor wires are 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 6x0.0142" with a non-conductive center member. The typical resistance is 8.7 Ω/Kft and the capacitance is increased by approximately 5 to 10% in comparison to the outer conductors.
- * All values shown are nominal or typical values.