



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

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 °F °C	Plastic Type	Insulation Thickness in mm	Copper Construction in mm	Res. Typical Ω/Kft Ω/km	Cap. Typical pf/ft pf/m	O.D. Each in mm	Tape Type	in Air lbs/Kft Kg/Km	in H2O lbs/Kft Kg/Km	Spec. Gravity
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				0.084 2.13				
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				0.084 2.13				

- * 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 deg. 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.