



**0.484" (12.3 mm) 7-CONDUCTOR
Extra High Strength
7Q48**

PROPERTIES:

Cable Diameter:	0.484" +0.006" - 0.003"	(12.29mm + 0.15mm -0.076mm)
Minimum Sheave Diameter:	27"	(69 cm)
Cable Stretch Coefficient (Nominal):	0.61 ft/Kft/Klbs	(0.69 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:	1.0 Ω/Kft	(3.3 Ω/Km)

MECHANICAL:

Cable Breaking Strength:

Ends Fixed:	28,200 lbs	(130 KN) Nominal
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Maximum Suggested Working Tension:	14,100 lbs	(60 KN)
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Number and Size of Wires:

Inner Armor	16 x 0.0535"	(1.36 mm)
Outer Armor	18 x 0.0670"	(1.70 mm)

Average Wire Breaking Strength:

Inner Armor	703 lbs	(3.1 KN)
Outer Armor	1103 lbs	(4.9 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	
7Q48RTZ-EHS	500	FEP	0.0130	7x0.0128	9.8	46	0.064	Dacron	409	336	5.61
	260	ETFE	0.330 0.0090 0.2290	7x0.325	32.2	151	1.626 0.082 2.083		609	500	

- * 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 filler 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 reduced by approximately 5 to 10% and the capacitance is increased by approximately 5 to 10% in comparison to the outer conductors.