



7Q49-EHS

0.490" (12.45 mm)

7-CONDUCTOR

DuraSlam™

NAVIGATION

CASED HOLE

OPEN HOLE

.377"

3/16"

3/8"

7/16"

15/32"

.474"

DuraSlam

.49"

.54"

SOUR SERVICE

GEOTHERMAL

GREASELESS

FIBER OPTIC

MECHANICAL WIRELINE

PROPERTIES

Cable Diameter	0.490" +0.006" - 0.002"	(12.45mm +0.15mm -0.05mm)
Minimum Sheave Diameter	25"	(64 cm)
Cable Stretch Coefficient	0.60 ft/Kft/Klbs	(0.67 m/Km/5KN)

ELECTRICAL

Maximum Conductor Voltage	1,200 VDC	
Conductor AWG Rating	20	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500 VDC)
Armor Electrical Resistance	1.0 Ω/Kft	(3.3 Ω/Km)

MECHANICAL

Cable Breaking Strength			
Ends Fixed	25,750 lbs	(114.6 KN)	Nominal
Maximum Suggested Working Tension	12,875 lbs	(57.3 KN)	
Number and Size of Wires			
Inner Armor	20 x 0.0460"	(1.17 mm)	
Outer Armor	20 x 0.0620"	(1.57 mm)	
Average Wire Breaking Strength			
Inner Armor	532 lbs	(2.4 KN)	
Outer Armor	966 lbs	(4.3 KN)	

Cable Type	Core Description									Cable Weight		
	Temperature 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	Jacket Type	in Air	in H ₂ O
	1 hr. Max Temp	8 hr. Max Temp	Cont. Max Temp								lbs/Kft Kg/Km	
7Q49RTZZ-EHS	500 260	450 232	400 204	FEP	0.0130	7x0.0128	9.8	27	0.064	ETFE	409	338
				ETFE	0.0100 0.254	7x0.325	32.2	89	1.626 0.084 2.134			

- ▶ 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.
- ▶ 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 7x0.0142" 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.
- ▶ All values shown are nominal or typical values.