

## NAVIGATION

CASED HOLE

OPEN HOLE

.377"

3/16"

3/8"

7/16"

15/32"

.474"

**DuraSlam**

.49"

.54"

SOUR SERVICE

GEOTHERMAL

GREASELESS

FIBER OPTIC

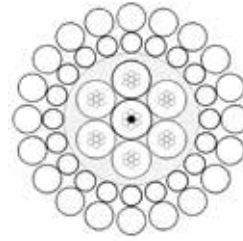
MECHANICAL WIRELINE

# 7Q49-EEHS

0.490" (12.45 mm)

7-CONDUCTOR

**DuraSlam™**



## PROPERTIES

Cable Diameter	0.490" +0.006" - 0.002"	(12.45mm +0.15mm -0.05mm)
Minimum Sheave Diameter	36"	(91 cm)
Cable Stretch Coefficient	0.61 ft/Kft/Klbs	(0.69 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	30,000 lbs	(133.5 KN)	Nominal
Maximum Suggested Working Tension	15,000 lbs	(66.8 KN)	
Number and Size of Wires			
Inner Armor	20 x 0.0460"	(1.17 mm)	
Outer Armor	20 x 0.0620"	(1.58 mm)	
Average Wire Breaking Strength			
Inner Armor	603 lbs	(2.7 KN)	
Outer Armor	1,095 lbs	(4.9 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 <sub>2</sub> O
	1 hr. Max Temp	8 hr. Max Temp	Cont. Max Temp								lbs/Kft Kg/Km	
7Q49RXZZ-EEHS	420 216	375 191	325 121	Camtane ETFE	0.0130 0.330 0.0100 0.254	7x0.0128 7x0.325	9.8 32.2	28 92	0.064 1.626 0.084 2.134	ETFE	405	335
											603	498
7Q49RTZZ-EEHS	500 260	450 232	400 204	FEP ETFE	0.0130 0.330 0.0100 0.254	7x0.0128 7x0.325	9.8 32.2	27 89	0.064 1.626 0.084 2.134	ETFE	408	337
											607	502

- ▶ The armor wires are high tensile, Galvanized Extra Extra Improved Plow Steel (GEEIPS), 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.