



# 7J46

## 15/32" (11.79 mm) 7-CONDUCTOR

### 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	0.464" +0.005" - 0.002"	(11.79mm +0.13mm -0.05mm)
Minimum Sheave Diameter	26"	(66 cm)
Cable Stretch Coefficient	0.77 ft/Kft/Klbs	(0.87 m/Km/5KN)

### ELECTRICAL

Maximum Conductor Voltage	1,200 VDC	
Conductor AWG Rating	20	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500 VDC	(457 MegaΩ/Km @ 500 VDC)
Armor Electrical Resistance	1.3 Ω/Kft	(4.3 Ω/Km)

### MECHANICAL

Cable Breaking Strength			
Ends Fixed	19,100 lbs	(85.0 KN)	Nominal
Maximum Suggested Working Tension	9,550 lbs	(42.5 KN)	
Number and Size of Wires			
Inner Armor	24 x 0.0390"	(0.991 mm)	
Outer Armor	24 x 0.0495"	(1.257 mm)	
Average Wire Breaking Strength			
Inner Armor	357 lbs	(1.59 KN)	
Outer Armor	575 lbs	(2.56 KN)	

Cable Type	Core Description									Cable Weight		
	Temperature Rating			Plastic Type	Insulation Thickness	Copper Construction	Res Typical	Cap. Typical	O.D. Each	Tape Type	in Air	in H <sub>2</sub> O
	°F	°C									in mm	in mm
7J46RP	300	275	250	Poly	0.029	7x0.0128	9.8	40	0.096	Dacron	321	265
	149	135	121		0.737	7X0.325	32.2	131	2.438		478	395
7J46RXZ	420	375	325	Camtane ETFE	0.016	7x0.0128	9.8	40	0.070	Dacron	340	281
	216	191	163		0.406 0.0115	7x0.325	32.2	131	1.778 0.096		507	419
7J46RTZ	500	450	400	FEP ETFE	0.016	7x0.0128	9.8	39	0.061	Dacron	341	382
	260	232	204		0.406 0.0115	7X0.325	32.2	128	1.778 0.096		507	419

- ▶ 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.
- ▶ 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 capacitance 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.
- ▶ Dacron® does not withstand temperatures exceeding 300° F. Nomex® is available by customer request at time of order for additional cost.