

**15/32" (11.79mm)  
7-CONDUCTOR  
7J46**

**PROPERTIES:**

Cable Diameter:	0.464" +0.005" - 0.002"	(11.79mm + 0.13mm - 0.05mm)
Minimum Sheave Diameter:	20"	(51 cm)
Cable Stretch Coefficient	0.77 ft/Kft/Klbs	(0.87 m/km/5KN)

**ELECTRICAL:**

Maximum Conductor Voltage	1200 VDC	
Conductor AWG Rating	20	
Minimum Insulation Resistance	1,500 MegΩ/Kft @ 500VDC	(457 MegΩ/Km @ 500VDC)
Armor Electrical Resistance:	1.3 Ω/Kft	(4.3 Ω/Km)

**MECHANICAL:**

**Cable Breaking Strength:**

Ends Fixed:	18,000 lbs	(80.1 KN)	Nominal
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**Maximum Suggested Working Tension:**

9,000 lbs	(40.0 KN)
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**Number and Size of Wires:**

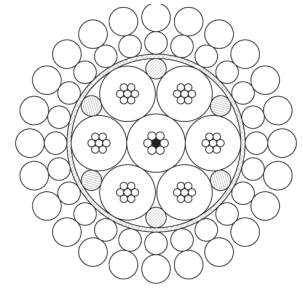
Inner Armor	24 x 0.0390"	(0.991 mm)
Outer Armor	24 x 0.0495"	(1.257 mm)

**Average Wire Breaking Strength:**

Inner Armor	323 lbs	(1.44 KN)
Outer Armor	520 lbs	(2.31 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								lbs/Kft Kg/Km		
7J46RP	300 149	Poly	0.029 0.737	7x0.0128 7x0.325	9.8 32.2	40 131	0.096 2.438	Dacron	321 478	254 378	4.78
7J46RXZ	420 216	Camtane	0.016 0.406	7x0.0128 7x0.325	9.8 32.2	40 131	0.070 1.778	Dacron	338 503	271 403	5.04
		ETFE	0.013 0.330			0.096 2.438					
7J46RTZ	500 260	FEP	0.016 0.406	7x0.0128 7x0.325	9.8 32.2	39 128	0.070 1.778	Dacron	341 507	274 408	5.08
		ETFE	0.013 0.330			0.096 2.438					

- \* 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 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 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.



**15/32" (11.79mm) 7-CONDUCTOR  
HIGH STRENGTH  
7J46-HS**

**PROPERTIES:**

Cable Diameter:	0.464" +0.005" - 0.002"	(11.79mm + 0.13mm -0.05mm)
Minimum Sheave Diameter:	20"	(51 cm)
Cable Stretch Coefficient	0.77 ft/Kft/Klbs	(0.87 m/km/5KN)

**ELECTRICAL:**

Maximum Conductor Voltage	1200 VDC	
Conductor AWG Rating	20	
Minimum Insulation Resistance	1,500 MegΩ/Kft @ 500VDC	(457 MegΩ/Km @ 500VDC)
Armor Electrical Resistance:	1.3 Ω/Kft	(4.3 Ω/Km)

**MECHANICAL:**
**Cable Breaking Strength:**

Ends Fixed:	19,100 lbs	(85.0 KN)	Nominal
<b>Maximum Suggested Working Tension:</b>	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	356 lbs	(1.59 KN)
Outer Armor	574 lbs	(2.56 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	in	Spec. Gravity
	°F °C										
7J46RP-HS	300 149	Poly	0.029 0.737	7x0.0128 7x0.325	9.8 32.2	40 131	0.096 2.438	Dacron	321 478	254 378	4.78
7J46RXZ-HS	420 216	Camtane	0.016 0.406	7x0.0128 7x0.325	9.8 32.2	40 131	0.070 1.778	Dacron	338 503	271 403	5.04
		ETFE	0.013 0.330								
7J46RTZ-HS	500 260	FEP	0.016 0.406	7x0.0128 7x0.325	9.8 32.2	39 128	0.070 1.778	Dacron	341 507	274 408	5.08
		ETFE	0.013 0.330								

- \* 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 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 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.