



7Q38

3/8" (9.60 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 | 0.378" +0.005" - 0.002" | (9.60mm +0.13mm -0.05mm) |
| Minimum Sheave Diameter | 22" | (56 cm) |
| Cable Stretch Coefficient | 1.4 ft/Kft/Klbs | (1.57 m/Km/5KN) |

ELECTRICAL

| | | |
|-------------------------------|---------------------------|--------------------------|
| Maximum Conductor Voltage | 1,100 VDC | |
| Conductor AWG Rating | 20 | |
| Minimum Insulation Resistance | 1,500 MegaΩ/Kft @ 500 VDC | (457 MegaΩ/Km @ 500 VDC) |
| Armor Electrical Resistance | 1.8 Ω/Kft | (5.9 Ω/Km) |

MECHANICAL

| | | | |
|-----------------------------------|--------------|------------|---------|
| Cable Breaking Strength | | | |
| Ends Fixed | 13,100 lbs | (58.29 KN) | Nominal |
| Maximum Suggested Working Tension | 6,550 lbs | (29.15 KN) | |
| Number and Size of Wires | | | |
| Inner Armor | 20 x 0.0358" | (0.909 mm) | |
| Outer Armor | 20 x 0.0470" | (1.194 mm) | |
| Average Wire Breaking Strength | | | |
| Inner Armor | 286 lbs | (1.27 KN) | |
| Outer Armor | 494 lbs | (2.19 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 | |
| 7Q38RAZB | 500 260 | 450 232 | 400 204 | PFA | 0.0160 0.4064 | 7x0.0128 7x0.325 | 9.8 32.2 | 39 121 | 0.070 1.778 | ETFE | 256 387 | 211 315 |

- ▶ 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 7x0.0128". 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.