



1Q36-F0

0.36" (0.91 mm)
MONOCONDUCTOR

NAVIGATION

- CCASED HOLE
- OPEN HOLE
- SOUR SERVICE
- GEOHERMAL
- GREASELESS
- FIBER OPTIC

- 1/4"
- 5/16"
- .36"

MECHANICAL WIRELINE

PROPERTIES

Cable Diameter	0.357" +0.005" - 0.002"	(9.07mm +0.13mm -0.05mm)
Minimum Sheave Diameter	22"	(56 cm)
Cable Stretch Coefficient	1.0 ft/Kft/Klbs	(1.12 m/Km/5KN)

ELECTRICAL

Maximum Conductor Voltage	1,500 VDC Central Conductor	
Conductor AWG Rating	11	
Minimum Insulation Resistance	1,500 MegaΩ/Kft @ 500VDC	(457 MegaΩ/Km @ 500VDC)
Armor Electrical Resistance	1.9 Ω/Kft	(6.09 Ω/Km)

MECHANICAL

Cable Breaking Strength			
Ends Fixed	13,100 lbs	(60.07 KN)	Nominal
Maximum Suggested Working Tension	6,550 lbs	(30.04 KN)	
Number and Size of Wires			
Inner Armor	18 x 0.039"	(0.991 mm)	
Outer Armor	24 x 0.039"	(0.991 mm)	
Average Wire Breaking Strength			
Inner Armor	357lbs	(1.59 KN)	
Outer Armor	357 lbs	(1.59 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	in Air	in H ₂ O
	1 hr. Max Temp	8 hr. Max Temp	Cont. Max Temp							lbs/Kft Kg/Km	
1Q36YZ-F0	500 260	450 232	400 204	ETFE	0.032 0.800	14x0.0253 14x0.643	1.26 4.12	139 457	0.208 5.27	228 341	189 282

- ▶ Number, type and temperature rating of fiber optic elements is dependent on customer request.
- ▶ While insulation is rated to 1-hour exposure of 500 °F, the fiber optic element in the cable will dictate the maximum operating temperature for the cable.
- ▶ Fiber in metal tube (FIMT): stainless steel OD of 0.094 in. (2.4 mm). Extra fiber length (EFL) is specified by customer request and subject to manufacturing capabilities.
- ▶ Attenuation increase in the fiber optic under loaded conditions may vary.
- ▶ The armor wires are high tensile, Galvanized Extra Improved Plow Steel (GEIPS), and coated with an anticorrosion compound for protection during shipping and storing. Wires are preformed.
- ▶ Conductor resistance is measured at 68 °F. Voids in the copper strand are filled with a water-blocking agent to reduce water and gas migration.
- ▶ All values shown are nominal or typical values.