

STAINLESS STEEL CABLE

submersible transducer wireline

PROPERTIES

■ Cable Diameter	3/16" nominal	4.80 mm nominal
■ Minimum Sheave Diameter	10"	25 cm
■ Cable Stretch Coefficient	4.25 ft/Kft/Klbs	4.78 m/km/5KN
■ Temperature Rating	300° F	149° C
■ Insulation and Core Jacket Material	poly	
■ Cable Weight in Air	61 lbs/Kft	90 Kg/Km
■ Cable Weight in Water	50 lbs/Kft	74 Kg/Km

ELECTRICAL

■ Maximum Conductor Voltage	500 VDC, 500 VAC	
■ Conductor AWG Rating	23	
■ Minimum Insulation Resistance	1,500 Meg Ω Kft @ 500 VDC	457 Meg Ω Km @ 500 VDC
■ Armor Electrical Resistance	28.5 Ω /Kft	93.5 Ω /Km

MECHANICAL

■ Cable Breaking Strength		
Ends Fixed:	2,600 lbs	11.57 KN
Ends Free:	1,600 lbs	7.1 KN
■ Maximum Suggested Working Tension:	1,300 lbs	5.78 KN
■ Number and Size of Wires		
Inner Armor	18 X 0.0185"	0.470 mm
Outer Armor	18 X 0.0248"	0.630 mm
■ Average Wire Breaking Strength		
Inner Armor	57 lbs	0.253 KN
Outer Armor	102 lbs	0.445 KN

- The armor wires are high tensile, Stainless Steel Alloy 316. Wires are preformed and cables are post tensioned. UNS S31600 for (SS316), tensile strength of each wire is 235,000 psi (165 Kg/mm²).
- Core assembly—Copper strand consists of four wires around a center core. Conductor resistance is measured at 68 deg. F. Voids in the copper strand are filled with a water-blocking agent to reduce water and gas migration.
- The temperature rating assumes a normal gradient for both temperature and weight.

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