DYNOTEK
FLUID DATA MANAGEMENT

STAINLESS STEEL CABLE

Submersible Transducer Wireline

PROPERTIES

• Cable diameter	3/16 in. nominal	4.80 mm nominal
• Minimum sheave diameter	10 in.	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 materials	polyethylene	
• 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	
• Mininum insulation resistance	1500 Meg/Kft @ 500 VDC	457 Meg/Km @ 500 VDC
• Armor electrical resistance	28.5 Kft	93.5 Km

MECHANICAL

• Cable breaking		
Ends fixed	2600 lbs	11.57 KN
Ends free	1600 lbs	7.1 KN
• Maxium suggested working tension	1300 lbs	5.8 KN
• Number and sizes of wires		
Inner armor	18 x 0.0185 in.	0.470 mm
Outer armor	18 x 0.0248 in.	0.630 mm
• Average wire breaking strength		
Inner armor	57 lbs.	0.253 KN
Outer armor	102 lbs.	0.445 KN

- Armor wires are highly tensile stainless stell alloy 316. Wires are preformed and cables are post tensioned. UNS S31600 for (SS316), tensile strenth of each wire is 235,000 psi (165 Kg/mm).
- Core assembly is copper strand and consists of 4 wires around a central core. Conductor resistance is measured at 68 degrees F. Voids in the copper strand are filled with a water-blocking agent to reduce water and gas mitigation.
- Temperature rating assumes a normal gradient for both temeprature and weight.
- Warranty is subject to compliance with the above specifications.

Jim Butler
jim@dynotekonline.com • 303-947-4202 cell

Troy Russell
troy@dynotekonline.com • 720-619-6762 cell

www.dynotekonline.com