DYNOTEK
FLUID DATA MANAGEMENT

POLYETHYLENE CABLE

Submersible Transducer Wireline

PROPERTIES

- 18 AWG two-conductor shielded, Kevlar strength member PE jacket
- **Dynotek P/N:** ACPCSTD2
- **Conductors:** 18 16/30 bare copper
- **Insulation:** Linear Low Density Polyethylene, one black, one white .108 inch nominal outer diameter
- **Core:** Two 18-gauge insulated wires, one 20 AWG tinned cooper drain wire, Kevlar fiber. All wrapped with mylar backed aluminum foil, foil side facing in.
- **Jacket:** Green LLDPE
- **Finished Diameter:** .290 inch to .310 inch dead maximum
- **Agency Approval:** UL AWM style 20143 600 volt

POLYETHELYNE SPECIFICATIONS

PHYSICAL	NOMINAL VALUE	LIMIT	TEST METHOD
• Density	0.920	g/cm3	ASTM D1505
• Melt Mass-Flow Rate (MFR) (190° C/2.16 kg)	0.700	g/10 min	ASTM D1238
• Enviromental Stress Crack Res (10% Igepal)	1000	hr	ASTM D1693
MECHANICAL	**NOMINAL VALUE**	**LIMIT**	**TEST METHOD**
• Tensile Stength @ Yield	1700	psi	ASTM D638
• Tensile Stength @ Break	2200	psi	ASTM D638
• Tensile Elongation @ Brk	650	%	ASTM D638
• Flexural Modulus	1% Secant: 50000	psi	ASTM D790
HARDNESS	**NOMINAL VALUE**	**LIMIT**	**TEST METHOD**
• Durometer Hardness (D Scale)	57		ASTM D2240
THERMAL	**NOMINAL VALUE**	**LIMIT**	**TEST METHOD**
• Brittle Temperature	-105	°F	ASTM D746
ELECTRICAL	**NOMINAL VALUE**	**LIMIT**	**TEST METHOD**
• Dielectric Constant (1E + 6 Hz)	2.290		ASTM D150
• Dissipation Factor (1E + 6 Hz)	0.000100		ASTM D150

ADDITIONAL PROPERTIES

- The value listed as Dielectric Constant, ASTM D150, was tested in accordance with ASTM D1531.
- The value listed as Dissipation Factor, ASTM D150, was tested in accordance with ASTM D1531.

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