

CABLE OPTIONS FOR KPSI TRANSDUCERS

Many cable options, one just right for your application

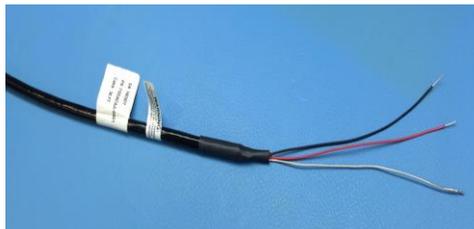
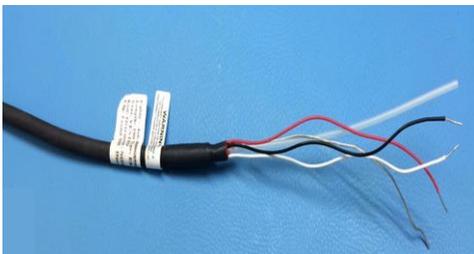
CABLE JACKET:

Dual Layer Polyurethane (Raythane C) our standard, general purpose, polyurethane is the perfect choice for most water and liquid level applications. It exhibits excellent abrasion resistance, toughness, transparency and low temperature properties. This cable type contains a secondary, inner polyethylene jacket water block feature making it impervious to water ingress. Withstanding up to 200 lbs. of pull strength from integrated axial aramid strength tensioning members, this cable is designed to be installed on transducers monitoring water, wastewater, leachate, irrigation and most water & pump applications.

ETFE (Ethylene TetraFluoroEthylene) Our ETFE jacketed cable is a fluoroplastic with excellent electrical and chemical properties with good mechanical strength. It does not deteriorate with extended exposure to weather and is temperature resistant to 85°C. This cable also contains an inner polyethylene secondary jacket for additional moisture protection and it is intended to be attached to transducers monitoring liquids with chemical content such as chlorine, hydrochloric acid, gasoline and other liquid hydrocarbons.

Armored our new Armored cable option utilizes the polyurethane cable mentioned above but is protected by galvanized steel interlock coil with a blue PVC outer jacket. It has a temperature limit of -40°C to 85°C. **Armor clad cable is only available on KPSI models that utilize the 859 removable cable option.** This is a robustly designed submersible cable option to be installed on transducers for use in rugged terrains, harsh weather conditions or for animal resistance. An additional benefit is that this product is **“cable and conduit” All-in-One**; making it capable of being buried or trenched directly off the spool; saving time and money from doing it separately.

PVC This general purpose, non-submersible wire installs on our non-submersible KPSI series 27, 28, and 30 transducers. Recommended for dry, indoor applications only it is gray in color and the shield is an Aluminum-Mylar tape with 25% overlap and foil facing outward. PVC is attached to transducers monitoring pipelines, tanks, and line pressures.



ELECTRICAL CONNECTION/CABLE SEALS

Over-mold Seal our over-molded seal utilizes a proprietary tubular design and an injection molding process to prevent water intrusion for all our submersible transducers installed with polyurethane jacketed cable. This seal is rated for a maximum of 500 PSI external pressure.



Seal with Conduit Connection

Gland Seal this connection is generally used for our submersible transducers installed with ETFE jacketed cable. The over-mold sealing process is incompatible with ETFE jacketed cable. This seal can be used for polyurethane cable with an external pressure over 300 PSI as well.



Seal with Conduit Connection

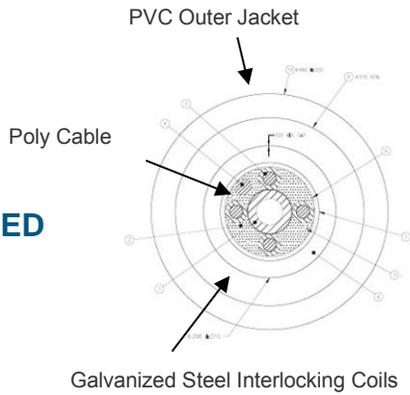
Strain Relief Cable Attachment This connection is used for our non-submersible transducers with PVC jacketed cable. This seal is recommended for dry, indoor applications only.



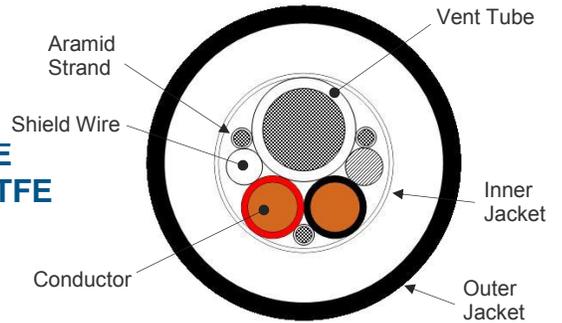
Seal with Conduit Connection

PRODUCT DRAWINGS

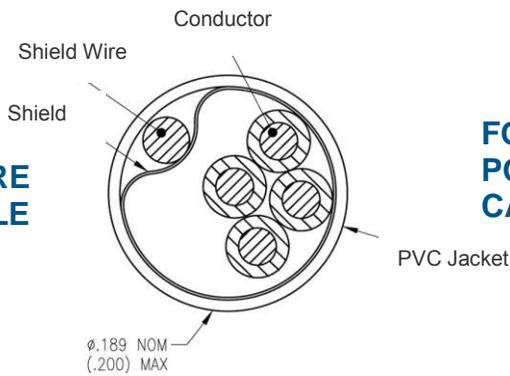
ARMORED CABLE



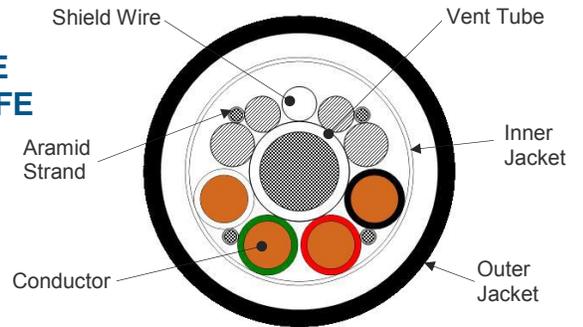
TWO-WIRE POLY & ETFE CABLE



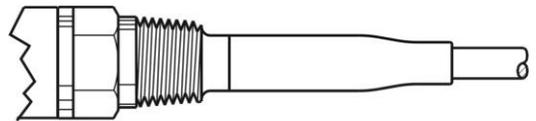
FOUR-WIRE PVC CABLE



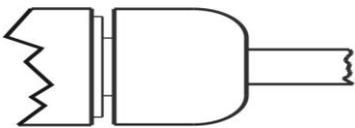
FOUR-WIRE POLY & ETFE CABLE



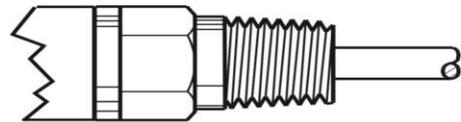
MOLDED CABLE SEAL



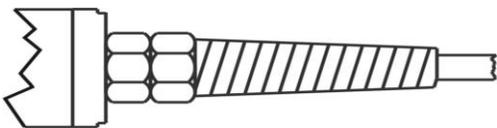
CONDUIT MOLDED CABLE SEAL



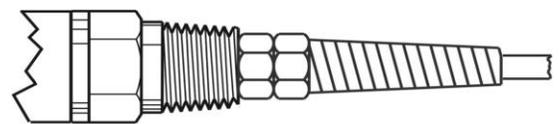
GLAND CABLE SEAL



CONDUIT GLAND CABLE SEAL



STRAIN RELIEF



CONDUIT STRAIN RELIEF

CABLE OPTIONS FOR KPSI TRANSDUCERS

CABLE SPECIFICATIONS

	Poly Cable	ETFE Cable	PVC Cable	Armored Cable
Temperature	-40° / 85° C	-20° / 85° C	-20° / 80°C	-40° / 85° C
OD (inches)	0.28-0.30	0.28-0.30	0.18-0.19	0.64-0.68
Weight	0.050 lbs/ft	0.050 lbs/ft	0.025 lbs/ft	0.256 lbs/ft
Pull Strength	200#	200#	200#	200#
Bend Radius	6"	12"	1"	12"

AVAILABLE CABLE SEAL OPTIONS

	Molded	Gland	Strain Relief
Polyurethane	X	X	
ETFE		X	
Armored	X		
PVC			X

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