PRO-TRACE® TW CONNECTOR

(PATENT #7335050)

Silicone Filled Tracer Wire Connector • Made from Polycarbonate • Impact and Crush Resistant • Water and Corrosion Proof Moisture, Chemical, and Oil Resistant • Connector for use in Damp, Wet and Submerisible Locations 300 Volts Max • RoHS Compliant • Direct Burial Rated

"PRO-TRACE" TW CONNECTOR -- CONFIDENCE & RELIABILITY -- IT'S FOOL PROOF INSTALLATION"



Applications and Information

- PRO-TRACE TW Connector is used for underground splices or connections for tracer
 wire and other applications not exceeding 300 Volts. The silicone filled connector
 is used to splice or branch-off multiple tracer wires to maintain continuity and provides
 corrosion proof protection from the underground elements.
- PRO-TRACE® TW Connector is superior to twist-on connectors, providing better strain relief and performance along with easier installation. They are fool proof, minimizing damage and error during installation and while in service.
- PRO-TRACE® TW Connector is a patented technology that uses applied hand pressure
 to close and lock in the connections with ease and is superior to wire nuts (twist-on).
 With wire nuts, wires are inserted and torqued until tight. If too much torque is applied
 the threading inside can become "stripped". If too litte torque is applied the wires may
 become loose.
- PRO-TRACE TW Connector is a quality, low cost connector in the market specifically designed for copper tracer wire. Ask about Tracer-Lock Connector our Flagship!
- PRO-TRACE TW Connector is designed to work with copper, copper-clad steel (CCS), and stainless steel. See table 4 for wire combinations.



Standards and References

PRO-TRACE ** **TW Connector** meets or exceeds all applicable UL standards, and requirements of the National Electrical Code.



• Sealed Wire Connection System for use in Damp, Wet, Raintight, Watertight, Submersible and Direct Bury Locations

Construction

PRO-TRACE® TW Connector is injection molded from polycarbonate that has outstanding temperature and high-impact resistance. It is superior to breaking and cracking. The outer housing is clear in color and provides visual confidence with each installation. The rotating handle is color coded to meet the APWA color code. The inner housing features a locking mechanism made from zinc and uses applied hand pressure that securely closes and locks the wire inside with ease. A corrosion proof silicone sealant fills the inner housing and provides longevity for each installation.

Specification Example

If tracer wire connectors are neccesary, contractor shall use a PRO-TRACE® TW Connector (Part No: 73901) rated for direct burial use filled with silicone sealant to prevent corrosion at connection points.

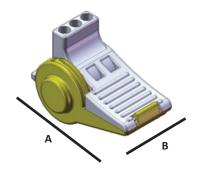
Spec Revision PRO-TRACE TW Connector, v5, updated 11.8.2019

TABLE 1: WIRE COMBINATIONS (Conductor and Insulation Type Compatibility)

CONDUCTOR TYPES							INSULATION TYPES			
SIZE	COPPER SD/MHD/HD	HF-CCS PRO-TRACE®	HS-CCS PRO-TRACE®	HDD-CCS PRO-TRACE®	STAINLESS TYPE 304	PVC/NYLON	PVC	LDPE, HDPE, XLPE		
16 AWG	1-3 WIRES	1-3 WIRES	1-3 WIRES	<u>NO</u>	1-3 WIRES	TFN or TFFN	LV-UF	PE30, PE45		
14 AWG	1-3 WIRES	1-3 WIRES	1-3 WIRES	<u>NO</u>	1-3 WIRES	THHN or THWN	TW, UF, THW, TWU	PE30, PE45, XHHW-2, USE-2		
12 AWG	1-3 WIRES	1-3 WIRES	1-3 WIRES	<u>NO</u>	1-3 WIRES	THHN or THWN	TW, UF, THW, TWU	PE30, PE45, XHHW-2, USE-2		
10 AWG	1-3 WIRES	<u>NO</u>	<u>NO</u>	<u>NO</u>	1-3 WIRES	THHN or THWN	TW, UF, THW, TWU	PE30, PE45, XHHW-2, USE-2		

TABLE 2: CONNECTOR (Physical and Electrical Properties)

MEASUREMENTS	TYPICAL VALUES			
Connector Size	2.375" (A) x 1.375" (B)			
Maximum Voltage	300 Volts			
Wire Range	Min #16 / Max #10 (See Table 1)			
Temperature Rating	105°C (221°F)			
Silicone Sealant Temperature	-40°F to 400°F			



PRODUCT	PRODUCT	PACKAGING		APPROX							
PART NO.	DESCRIPTION	INNER CARTON	MASTER CARTON	WEIGHT PER 100	STOCK						
WEIGHTS, MEASUREMENTS AND PACKAGING											
739010250	PRO-TRACE TW CONNECTOR MIN #16 MAX #10 300V BLUE	100/Inner	300/Master	10 lbs	YES						
739011250	PRO-TRACE TW CONNECTOR MIN #16 MAX #10 300V YELLOW	100/Inner	300/Master	10 lbs	YES						
***** ADDITIONAL COLORS AVAILABLE WITH MIN RUN CALL FOR DETAILS *****											

Installation Instructions

STEP #1



Open wings (handles) to 90 degrees position

STEP #2



Strip wires to 5/8". Use the strip guide molded into the connector for reference.

STEP #3



Insert striped wires into connector. The striped ends of the wires should be visible through the clear housing on the back.

STEP #4



Hold wires in place while squeezing wings (handles) together until the latch snaps shut.

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