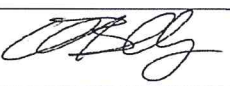



# CONTRACTOR SUBMITTAL FORM

<b>Project Name:</b> Navajo Gallup Water Supply Project Reach 26.3	<input checked="" type="checkbox"/> <b>M</b> (Materials)	<b>Submittal No.</b>  M038
<b>SMA Project No:</b> 6921307	<input type="checkbox"/> <b>T</b> (Testing)	
<b>Date:</b> 08-16-2019	<input type="checkbox"/> <b>A</b> (Administrative)	
<b>Contractor:</b> Navajo Engineering and Construction Authority	<b>No. of Copies:</b> 1	

<b>Supplier:</b> Core & Main	<b>Manufacturer:</b> Copperhead Industries, LLC
<b>Specification No.:</b> 33 05 23.13-2.6A1	<b>Drawing No.:</b> DT-12, 13, 14
<b>Bid Item No(s):</b> 10, 12	
<b>Submittal Checklist No(s):</b> M188	
<b>Product Description:</b>  Extra High Strength Tracer Wire Corrosion Proof Wire Connectors	
<b>Are there any deviations from the Contract Documents?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <b>Explain:</b>	
<b>Contractor's certification that product meets requirements of Contract Documents:</b> <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Certified with variations as noted on shop drawings and/or attached sheets.	
<b>Signed:</b>  Quentin Benally, NECA	<b>Date:</b> 08-16-2019

<b>Engineer's Comments:</b> <input checked="" type="checkbox"/> No Exception Taken <input type="checkbox"/> Approved as Corrected <input type="checkbox"/> Exceptions as Noted <input type="checkbox"/> Submittal Rejected <input type="checkbox"/> Revise and Resubmit to Engineer <input type="checkbox"/> Contractor to Submit Specified Information	Review is limited to check for compliance with design concept. No changes from provisions of Contract Documents are intended and Contractor remains responsible for compliance with revisions therein.  The Contractor is solely responsible for quantities; correctness of dimensions; verification of physical interrelation of elements of the work as required by the drawings and specifications and by field determination; fabrication procedures, construction methods, techniques and sequences. This review does not relieve the Contractor from these responsibilities.  Non-conformities and errors detected have been noted but such markings, or lack thereof, shall not relieve the Contractor from compliance with all requirements of the contract drawings and specifications.
<b>Signed:</b> 	<b>Date:</b> 8/20/19



## **Copperhead® SoloShot™ Extra High Strength Tracer Wire**

- Use Copperhead SoloShot Extra High Strength Tracer Wire
- Part # **1245\*-EHS-\*\*** ( Manufactured specifically for directional drilling and boring applications)
- \* = Color: **B=Blue Water**, G=Green Sewer, P=Purple Reclaim Water  
R= Red Electric , N=Orange Communications, K=Black
- \*\* = Spool Size: 500', 1000', 2500'

Tracer wire for directional drilling/boring shall be Copperhead® SoloShot™ #12 AWG (0.0808" diameter) hard drawn, high carbon 1055 grade steel, solid extra-high-strength copper-clad steel conductor (EHS-CCS), insulated with a 45 mil, high-density, high molecular weight polyethylene (HDPE) insulation, and rated for direct burial use at 30 volts. EHS-CCS conductor must be at 21% conductivity for locate purposes. Break load of 1150 lbs. HDPE insulation shall be RoHS compliant and utilize virgin grade material. Insulation color shall meet the APWA color code standard for identification of buried utilities. Manufacturers supplying copper clad steel tracer wire must have available detailed performance data including 5 years of underground testing in terms of durability related to damage of protective insulation and effects of potential corrosion of the specific copper clad steel used. Origin of copper clad steel manufacturer is required and steel core must be manufactured in the United States. If manufacturer has not completed 5 year corrosion testing, a 5 year warranty must be provided. Tracer wire shall be Copperhead® SoloShot™ EHS-CCS HDPE 45 mil or district pre-approved equal and made in the USA.



Designed for use with tracer lines, the DryConn® Direct Bury Lug eliminates the need to cut the main line and installs in less than a minute. Instructions: 1. Strip main and tap conductor 2. Place stripped conductor into slotted lug 3. Torque to 35lb-In 4. Repeat on lateral run 5. Remove sealant cover and discard. 6. Close housing, aligning conductors until housing lid is fully latched

#### PRODUCT SPECIFICATIONS & MEASUREMENTS

Max. Voltage: 50V

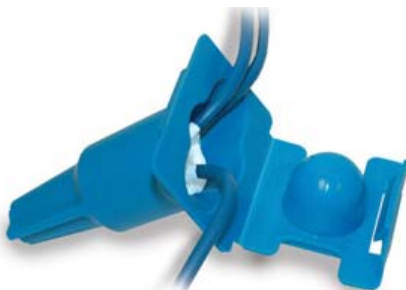
Connector Size: 1.138" x 1.285"

Wire Range: #14-10 solid and stranded copper; #12 steel core tracer wire (380 and 1200 pound)

Silicone Sealant Temperature Rating: -45°F to 400°F

**Part # 3WB-01 (Blue)**

**Package quantity - 10**



**Part # SCB-01-SR (Blue) Box quantity 100**



**Part # SCB-01 (Blue) Box quantity 100**

**\*Part# SCB-01-LG (wire range #14-#6)**

**Box quantity 100**

1. Strip wires 1/2" 2. Align conductors 3. No-pre-twisting needed. Hold stripped wires together with even ends 4. Push wires firmly into connector when starting 5. Twist connector onto wires pushing firmly until tight

#### PRODUCT SPECIFICATIONS & MEASUREMENTS:

Max. Voltage: 600V (1,000V in fixtures and signs)

Connector Size: 13/16" x 2"

Wire Type: Copper/Copper

Wire Range: Min #22/Max #8

Temperature Rating: 75°C (167°F)

Silicone Sealant: -45°F to 400°F

Max 4- #12 wires