

CONDUIT WITH TRACERWIRE – INSTALLATION GUIDELINES



Product Overview

Tracerwire Conduit is an ideal product for direct bury, Horizontal Directional Drilling (HDD), and plow applications where there is a need to have the ability to locate either a duct or a cable by electronic means. Utility protection is important to every provider due to the high cost of service outages, restoral, and customer inconvenience. The tracerwire provides a permanent, economical way to supply locate capabilities for buried facilities when placed into duct.

Recommended Coupling & Splicing Procedures

1. To install Tracerwire conduit, employ standard HDPE duct installation procedures.
2. In order to splice the Tracerwire locate wire; begin by cutting the duct perpendicular with duct cutters, so there is a clean face for coupling the duct. The ends of each duct should overlap slightly to allow coupling of the ducts. Measure and mark the ducts to be coupled at 10 and 17 inches from the end (Figure 1). Separate the Tracerwire from the duct using a utility knife with a hook blade, or other approved knife. Cut through the web to the 17-inch mark. Make the cut as close to the duct wall as possible, to not leave a ridge on the duct when coupling the duct.
3. Cut each duct again at the 10-inch mark (Figures 2-3) and join the ducts with the coupler. If a ridge remains after separating the Tracerwire from the duct, shave any remaining HDPE with the knife until smooth. Shave the duct for a length of 10 inches, which should be enough for the coupler length requirements. Should the coupler be longer than this, continue shaving the ridge until it matches half the length of the coupler. To install the coupler, there is no need to unscrew the bell ends of the coupler. Remove any burrs that may result, and ensure that the duct has not been rendered out of round. Ovalized duct must be re-rounded prior to insertion into the coupler. Only unscrew the ends if there is a need to remove the coupler.

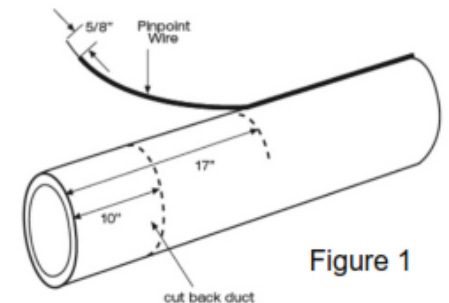


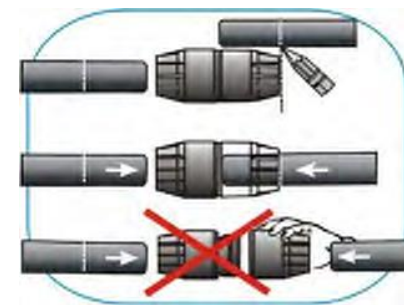
Figure 1



Figure 2



Figure 3



CONNECT

telecommunications solutions inc.

650 Rupert Street | Unit #6 | Waterloo ON | N2V 2R8
Phone: 519.748.4411 | 1-877-900-7996 | fax: 519.748.0466
customerservice@connect-telcom.com

www.connect-telcom.com

CONDUIT WITH TRACERWIRE – INSTALLATION GUIDELINES

4. Strip back 5/8" of the HDPE jacket from around the Tracerwire (Figures 4-5). Using the wire splice connector from the kit, place the connector fully onto both wire ends, and twist (clockwise) until it becomes tight (Figures 6-7). Pull each wire separately to ensure the connector threads have captured the wire.



Figure 4



Figure 5



Figure 6



Figure 7

C O N N E C T

telecommunications solutions inc.

650 Rupert Street | Unit #6 | Waterloo ON | N2V 2R8
Phone: 519.748.4411 | 1-877-900-7996 | fax: 519.748.0466
customerservice@connect-telcom.com

www.connect-telcom.com

CONDUIT WITH TRACERWIRE – INSTALLATION GUIDELINES

5. Insert the Tracerwires with the connector into the gel-filled closure. Push the connector fully to the bottom of the closure so that it is surrounded by the silicone sealant (Figures 8-9). Place the Tracerwires into the grooves at the entrance of the splice, fold and lock the cap into place (Figures 10-11).

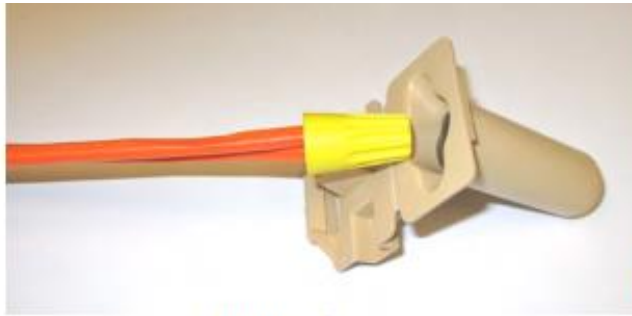


Figure 8

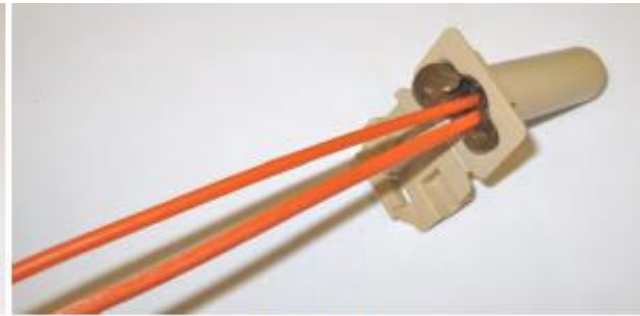


Figure 9



Figure 10



Figure 11

C O N N E C T

telecommunications solutions inc.

650 Rupert Street | Unit #6 | Waterloo ON | N2V 2R8
Phone: 519.748.4411 | 1-877-900-7996 | fax: 519.748.0466
customerservice@connect-telcom.com

www.connect-telcom.com

CONDUIT WITH TRACERWIRE – INSTALLATION GUIDELINES

6. Fold the excess slack of the Tracerwire back onto the duct, and tape or tie wrap to the duct (Figures 12).



Figure 12

Ordering Information

Part Number	Description
CTSP-DBR-SPLC-KIT	Direct Bury Wire Splice Connector Kit, 600V, Gel Fill, 2ea/kit, 25 kits/cs

PART NUMBER	FITS CONDUIT SIZE	DUCT OD WORKING RANGE	COUPLER LENGTH	TENSILE PULLOUT (LBS) MIN- MAX	MAXIMUM PRESSURE (PSI)	Case Qty
CTSP-1000-QL-CPLR	1.0"	1.305-1.325"	3.5"	600-800	250	50
CTSP-1250-QL-CPLR	1.25"	1.650-1.670"	5"	700-900	250	50
CTSP-1500-QL-CPLR	1.5"	1.890-1.910"	5.5"	800-1000	250	25
CTSP-2000-QL-CPLR	2.0"	2.365-2.385"	7.5"	2000-2400	250	25

CONNECT
telecommunications solutions inc.

650 Rupert Street | Unit #6 | Waterloo ON | N2V 2R8
Phone: 519.748.4411 | 1-877-900-7996 | fax: 519.748.0466
customerservice@connect-telcom.com

www.connect-telcom.com