BELDEN
SENDING ALL THE RIGHT SIGNALS

Cable Preparation Guide

Getting cables ready for the DataTuff Industrial REVConnect connector

Step-by-step instructions for easy success in terminating shielded cables

Be certain.
Belden.

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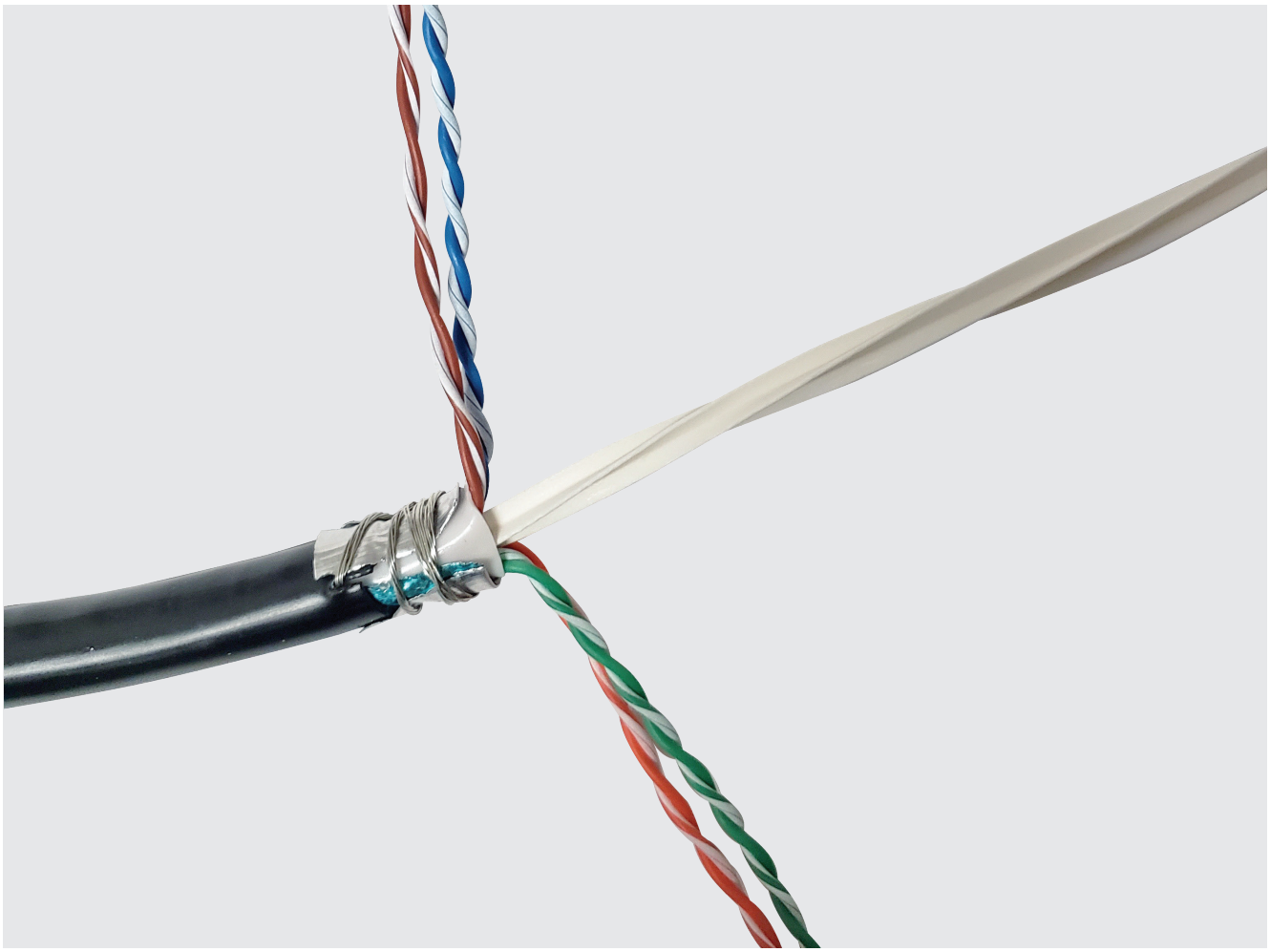
Successful Termination of Shielded Cable



The DataTuff Industrial REVConnect enables easy field-termination of a variety of cables, included those with foil or braided-foil shields. To help you ensure the best results, follow these steps for preparing your cable ends.

Tools You'll Need

Industrial REVConnect Cable Crimping Tool

Part Number RVUTT01

or

Cable Stripping Tool

Part Number RVUCT01
(1 comes automatically with your Industrial REVConnect Crimping Tool)

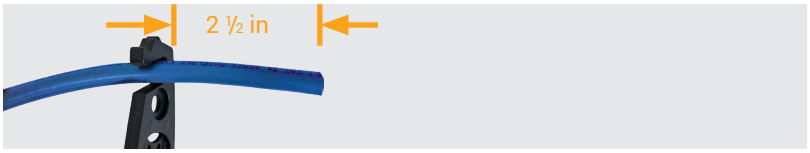
Any Standard Pliers optional

Foil-Shielded Cable

Process applies to Belden part numbers like 7919A, 7929A, 7936A, 7937A and 7958A

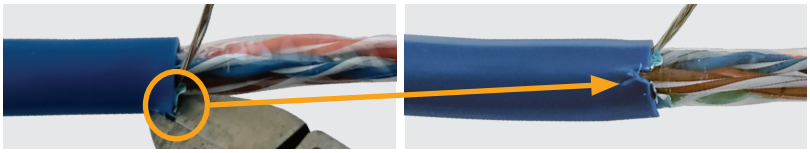
Note: this method will prevent the cable stripping tool from cutting too deep, thus protecting the wire insulation

1



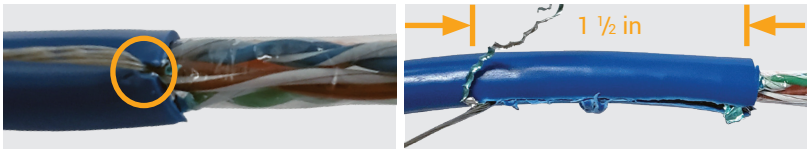
Using the cable stripping tool, remove 2.5" of the outer jacket and the foil shielding

2



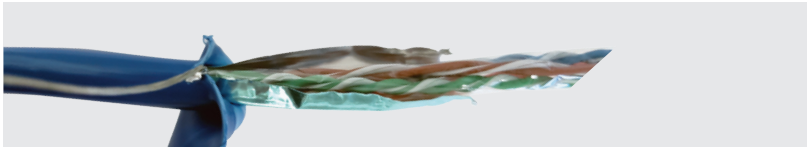
Make a small slit in the jacket close to the drain wire; make sure not to cut anything but the outer jacketing

3



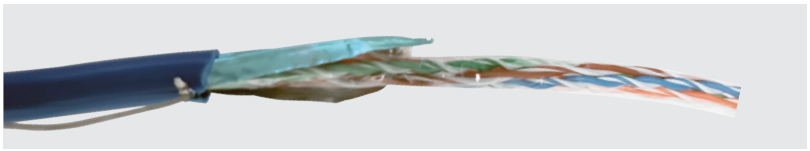
Position the drain wire in the slit, then pull it down to create a slit approximately 1.5" in length; you may need to grab the drain wire end with pliers to grip it firmly while tearing through the strong jacketing

4



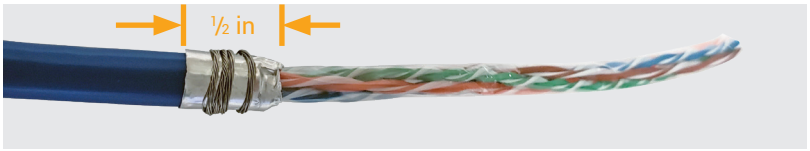
From the free end, carefully peel the jacketing away from the foil along the full length of the slit

5



Cut off the peeled back jacketing at the base of the slit; make sure to leave the foil in place

6



Fold the foil down over the outside of the jacketing, then wind the free end of the drain wire around the foil-covered jacket; keep just a 0.5" segment of foil, cutting the rest away

7

Peel away the PET tape and cut it off; your cable is now ready for termination

Foil and Braided Shielded Cable

Process applies to Belden part numbers like 7921A, 7938A and 7957A

1

Using the cable stripping tool, remove 2.5" of the exterior jacket material

2

Begin pulling the braided shield down toward the edge of the jacketing

3

Keep approximately 0.5" of the braided shield around the exposed top of the jacketing; twist the remaining braided shield to tighten the ends of the braid together

4

Unwind the drain wire to the top of the jacketing and pull the foil to separate it from the twisted pairs

5

Cut and remove the exposed drain wire, foil shielding and braided shield "tail"; your cable is now ready for termination

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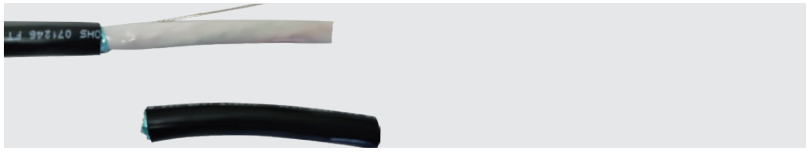
Special Case: Cable with Tight Jacket-Foil Clearance

Process applies to Belden part numbers like 7953A

1

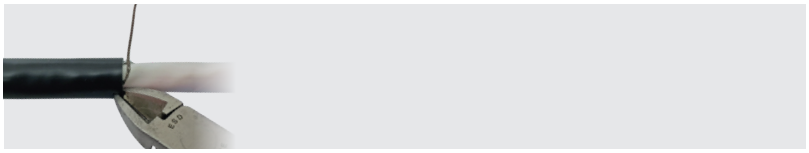
Using the cable stripping tool, remove 2.5" of the exterior jacket material

2



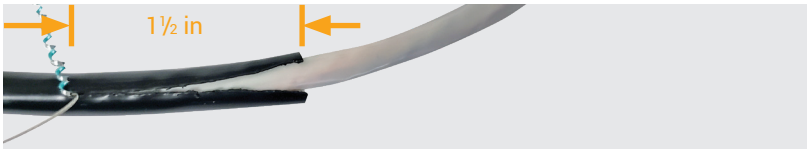
Remove outer jacket and foil shielding from exposed end

3



Make a small slit in the jacket close to the drain wire; make sure not to cut anything but the outer jacketing

4

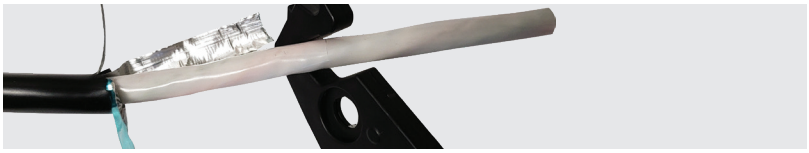


Position the drain wire in the slit, then pull it down to create a slit approximately 1.5" in length; you may need to grab the drain wire end with pliers to grip it firmly while tearing through the strong jacketing

5

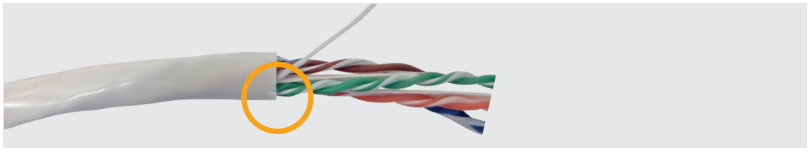
From the free end, carefully peel the jacketing away from the foil along the full length of the slit

6



At the end of the slit, cut off the peeled back outer jacketing; carefully peel back the foil shielding but DO NOT cut it away; using the cable stripping tool, remove 2.5" of the inner jacket material

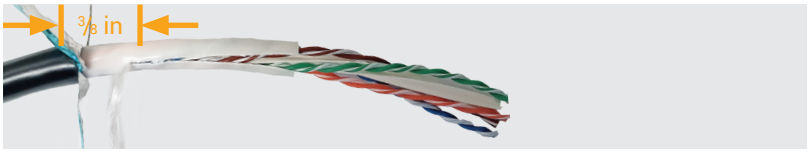
7



Make a small slit in the jacket close to the ripcord; make sure not to cut anything but the inner jacketing

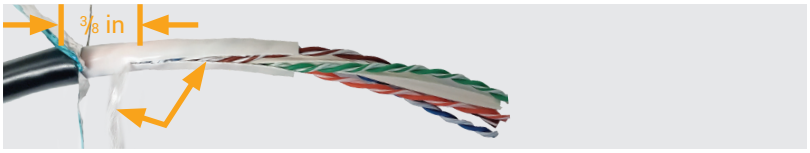
(Process continues on next page)

8



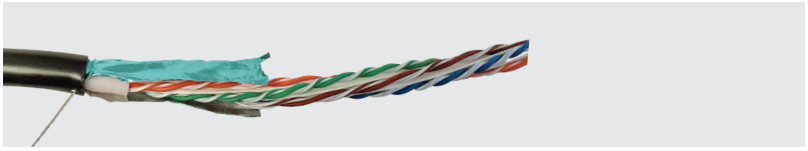
Position the ripcord in the slit, then pull it down to create a slit in the inner jacket; leave approximately 3/8" of solid inner jacketing between the bottom of the slit and the top of the outer jacketing

9



At the end of the slit, cut off the peeled back inner jacketing and the loose ripcord end

10

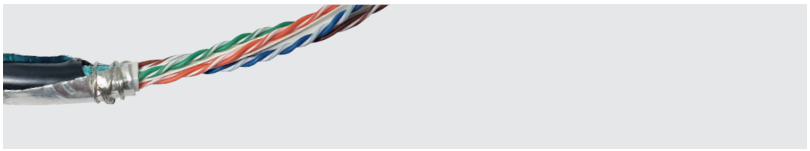


Smooth the foil ends back up over the cut inner jacket and exposed twisted paird

11

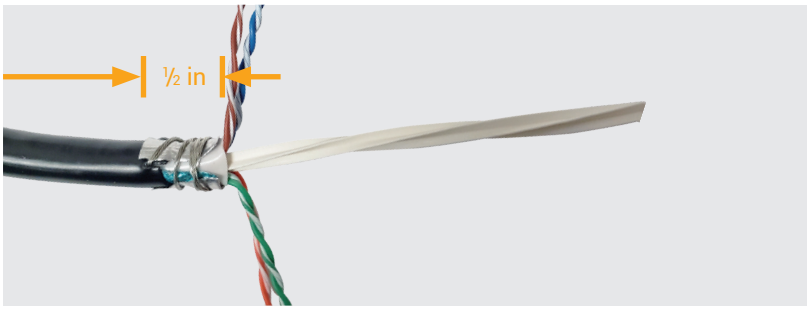
Turn back the foil shielding from the end of the inner jacket, with the conductive surface side facing out for grounding

12



Wind the free end of the drain wire around the foil-covered jacketing

13



Keep just a 0.5" segment of foil by cutting the rest away and your cable is ready for termination