

ETC Setup Guide

DMX Cable Preparation for Screw Termination

Overview

This document describes how to prepare Belden® 9729 (or equivalent) cable to terminate into a screw terminal style connector.

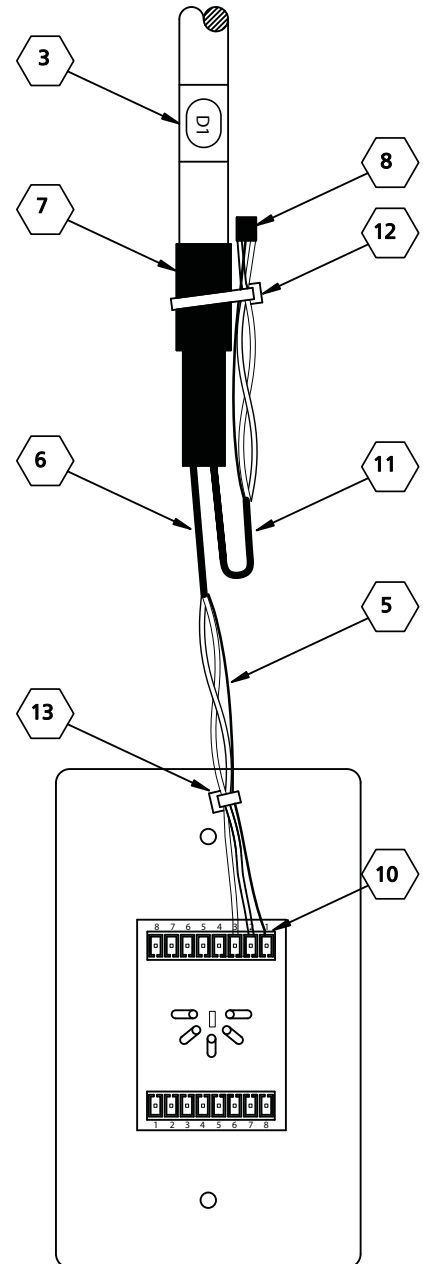
Note: *Not for use with Cat5, Cat5e, or Cat6 cable. When running DMX with these cable types, an insulation-displacement connector (IDC) is required. Please contact ETC for an IDC Termination Kit (order part number 4100A1013).*

DMX Cable Preparation

- 1: Cut cable (if necessary) so that an 8" (20 cm) tail extends from the edge of the box.
- 2: Strip 7" (17 cm) of the outer jacket.
- 3: Label the cable with the data type and run designation (DMX1, DMX2, etc.)
- 4: Strip the foil shielding from each wire set to within 1/4" (6 mm) of the outer jacket.
- 5: Untwist the shield wire from each pair and apply a piece of 1/16" (1.5 mm) clear heat shrink to each shield wire.
- 6: Twist each shield wire back onto its data pair, and then apply a 1.5" (38 mm) piece of 3/16" (4.8 mm) heat shrink all the way down each 3-wire set. Make sure to capture the foil shielding at the base.
- 7: Apply the 2" (50 mm) piece of the 3/8" (10 mm) heat shrink, centered on the end of the cable jacket and the bases of all the wires in the cable.
- 8: Cap the ends of the unused pair of wires with a 1" (25 mm) piece of 3/16" (5 mm) heat shrink centered over the end of the wires.
- 9: Strip 3/16" (5 mm) of insulation from all of the wires to be used.

Note: *In the case of "touch-and-go" applications with two wires landing at the same terminal, strip both wires to 3/4" (19 mm), twist them together tightly, and then trim them to 3/16" (5 mm). When wiring multiple DMX devices, ensure that the wiring daisy chain contains no "Ys" or loops.*

- 10: Maintain the wire pair twist as close to the connector as possible and terminate the wires as required.
- 11: Bend back the unused set of wires.
- 12: Secure the unused set of wires to the cable with a wire tie.
- 13: Secure the terminated wire sets together with a wire tie 2" (50 mm) from the connector.



Corporate Headquarters ■ Middleton, WI, USA ■ Tel +608 831 4116 ■ Service: (Americas) service@etcconnect.com

London, UK ■ Tel +44 (0)20 8896 1000 ■ Service: (UK) service@etcconnect.com

Rome, IT ■ Tel +39 (06) 32 111 683 ■ Service: (UK) service@etcconnect.com

Holzkirchen, DE ■ Tel +49 (80 24) 47 00-0 ■ Service: (DE) techserv-hoki@etcconnect.com

Hong Kong ■ Tel +852 2799 1220 ■ Service: (Asia) service@etcconnect.com

Web: etcconnect.com ■ © 2017 Electronic Theatre Controls, Inc.

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