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Backshell Banding Instructions

Application

The Isodyne tool-less braid termination system is intended to terminate the individual cable shield braids and the gross over-braid to military or commercial connectors.

Constant Force Spring Band

Product Descriptions

Straight Backshell

45° Backshell

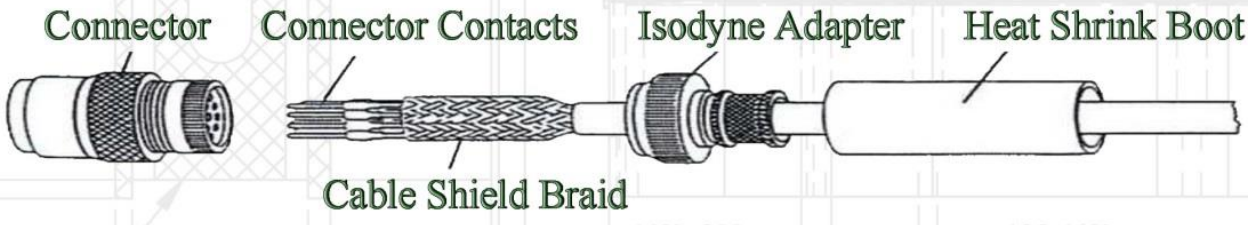
90° Backshell

Typical Spring Adapter Cable Termination

Installation Procedures

1) Assemble the cable making sure a minimum length of 1/2 inch of shield braid is available to go under the constant force spring band.

2) Before inserting connector contacts, slide the heat-shrink connector boot onto the cable followed by the Isodyne Adapter.



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3) Position the heat-shrink boot, Isodyne Adapter & shield braid out of the way and insert the connector contacts. Depending on the shield braid size it can either be folded back onto itself or bunched up accordion style out of the way for easy access to the cable conductors.

4) Thread the Isodyne Adapter onto the connector and tighten to the torque value specified in Table 1. The adapter should be initially hand tightened to ensure proper thread and teeth alignment. Then tighten with a strap wrench and torque meter to the specified torque.
Note: See Table 1 for recommended torque values.

5) If inner conductor shields are being terminated, feed them into the adapter and out pull them through the slotted openings. Secure them backwards onto the wire bundle using approved method prior to pulling up the overall shield. Bring the gross cable shield braid up onto the adapter body and, form over the rear shoulder onto the banding area.

6) Open the constant force spring and wrap it around the cable braid that is formed over the band area of the adapter. To open the spring-band, hold the coil between the thumb and index finger, locate the end of the band, and slide it backwards with the flat of your other forefinger, until it begins to roll under itself against the rest of the coil, forming a second coil, or loop. Grab both loops from the side using the thumb and forefinger of both hands. Pull open the new smaller loop until you can place this open end onto the adapter, trapping the braid between the spring coil and the end. Secure the adapter and the end and while unrolling the larger coil, until it reached the first end. The spring will now stay in place and can be installed by simply rolling the spring coil around the braid covered adapter. See our installation video at

www.isodyneinc.com

7) If utilizing a heat shrink boot (already on the cable), move boot all the way to the front of the banding area/boot groove on Isodyne Backshell. Shrink so the lip of the boot lands in the groove area, forming a seal with the body of the adapter, and conforming to the banding surface and wire bundle or jacketed cable.

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Re-entry Procedure

1) Lift up the edge of the constant force spring and push it around the circumference of the assembly to form a coil which then can be rolled around the assembly to remove the spring.

2) Carefully lift the cable braid off the adapter and push it back out of the way.

3) Remove the adapter and push it back out of the way to facilitate repairs at the connector or exposed conductor area.

4) Follow the practices detailed in these banding instructions to reinstall the Isodyne backshell.

Table 1

Installation Torque Values For Circular Electrical Connector Accessories Accessory Thread Torque ± 5 Inch Pounds			
Shell Sizes	Group 1 Light and Medium Duty MIL-C-5015 (MS3100 Series) MIL-C-26482 Series I MIL-C-26500 MIL-C-27599 MIL-C-38999 Series I & II MIL-C-81511 Series i, II, III, IV MIL-C-81703 Series I	Group 2 Heavy Duty MIL-C-5015 (MS3400 Series) MIL-C-22992 MIL-C-26482 Series II MIL-C-28840 MIL-C-38999 Series III, IV MIL-C-81703 Series III MIL-C-83723 Series I, II, III	Group 2 Values For Hand Held Tool Applications Field Repair Torque
8, 9, A	35	56	40-50
3, 10, 10SL, 11, B	35	76	40-50
7, 12 , 12S, 13, C	40	108	40-50
14, 14S, 15, D	40	116	50-60
16, 16S, 17, E	40	116	50-60
18, 19, 27, F	40	116	50-60
20, 21, 37, G	80	136	80-90
22, 23, H	80	136	80-90
24, 25, 61, J	80	136	80-90
28, 29	120	148	120-130
32, 33	120	148	120-130
36	120	148	120-130
40	160	164	150-170
44	160	164	150-170
48	160	164	150-170