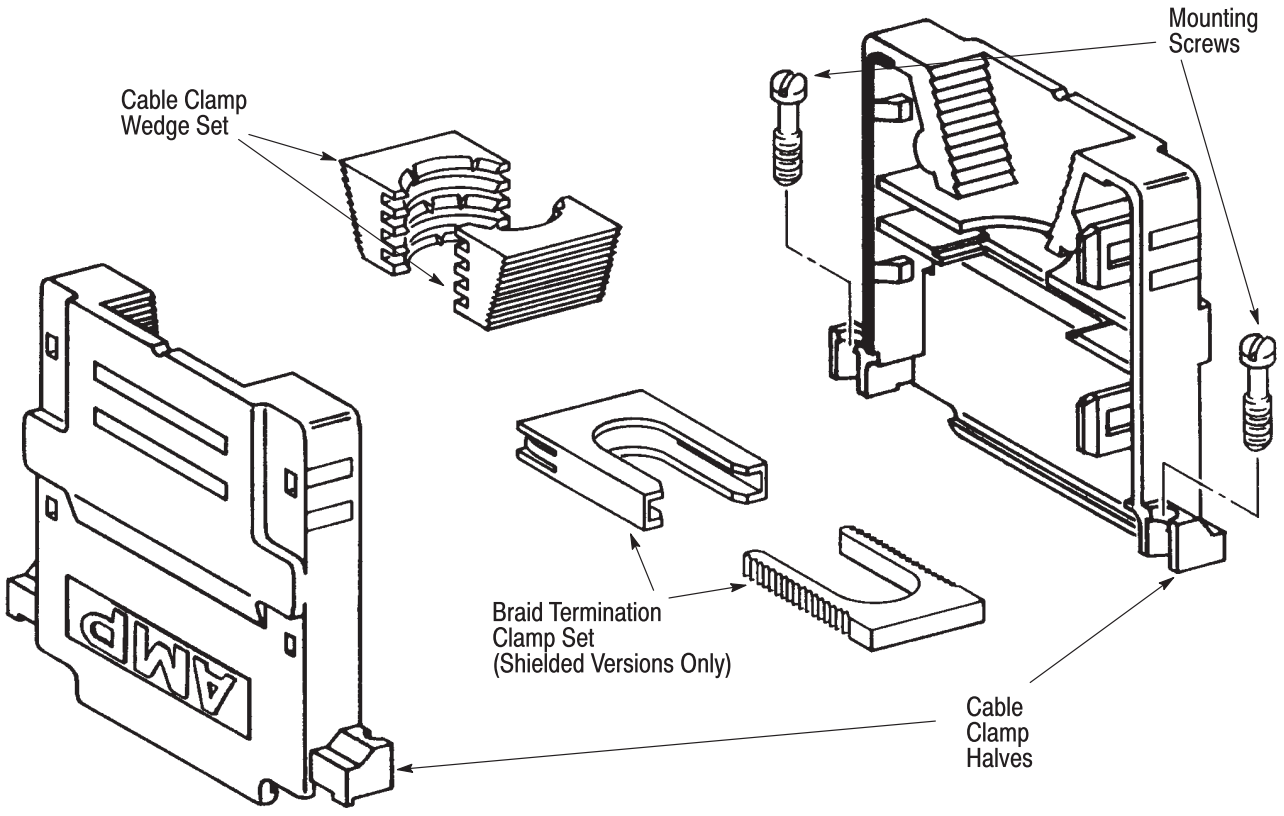
Universal Cable Clamp Kits for AMPLIMITE* Connectors



Kit Part No.	Number of Positions		Connector Type	Clamp Type	Cable Range, mm [in.]	
	Connector				Outer Jacket Diameter	Inner Wire Bundle Diameter
	HD–20	HD–22				
5747824–1	25	44	HDE or HDP	Unshielded	4.83 – 13.46 [.190 – .530]	12.19 [.480] Max
5748665–2				Shielded		

Figure 1

1. INTRODUCTION

This instruction sheet covers the assembly and installation of the Universal Cable Clamp Kits listed in Figure 1. The kits are used to provide strain–relief and electromagnetic shielding for AMPLIMITE HDP and HDE–type connectors (plugs and receptacles).

NOTE

All dimensions on this document are in metric units [with U.S. customary units in brackets]. Figures and illustrations are for identification only and are not drawn to scale.

Please read these instructions carefully before assembling any cable clamp kits.

2. DESCRIPTION

The universal cable clamp kit consists of two cable clamp halves, a two–piece braid termination clamp (shielded versions only), two cable clamp wedge sets, and two self–retaining mounting screws.

3. CABLE CLAMP INSTALLATION PROCEDURE

Obtain the desired 25–position connector and jacketed cable, and then refer to the chart in Figure 1 of this instruction sheet for selection of the cable clamp kit for your application. Install the cable clamp as follows:

1. Strip the cable jacket 34.93 to 38.10 mm [1.375 to 1.500 in.] from the end of the cable, taking care not to nick or cut the internal shielding or conductor insulation. See Figure 2.

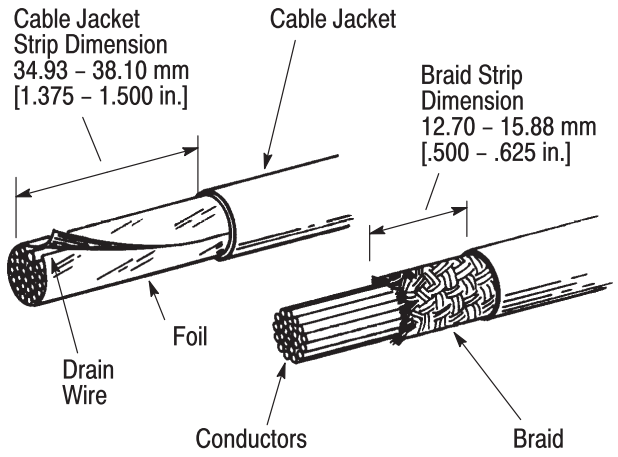


Figure 2

NOTE

If you are using the unshielded version, terminate the cable conductors and proceed to Step 6. Steps 2 through 5 are not applicable to the unshielded version of the cable clamps because the unshielded version does not have a braid termination clamp.

2. For cable with a braided shield, trim the braid 12.70 to 15.88 mm [.500 to .625 in.] from the end of the cable jacket, and then push the remaining braid back toward the cable jacket to form a bulge in the braid.

3. For cable with a foil shield, unwind the exposed foil and fold it back upon itself, leaving the plated side exposed. Wrap the folded foil around the conductors directly in front of the end of the cable jacket, and then fold the drain wire back over the wrapped foil.

4. Terminate the conductors to the connector according to the instructions packaged with the connector.

5. Apply the two–piece braid termination clamp over the bulge on the braided shield or over the folded foil.

NOTE

Position the drain wire of the foil–shielded cable so that it will be clamped by the outer half of the braid termination clamp.

6. Position the terminated connector on one half of the cable clamp, and — if using the shielded version of the cable clamp kit — insert the terminated braid clamp between the retaining walls of the housing, applying sufficient force to bottom the braid clamp in the retaining area. See Figure 3. If using an unshielded clamp kit, simply ensure that the connector flange is properly placed in one half of the cable clamp.

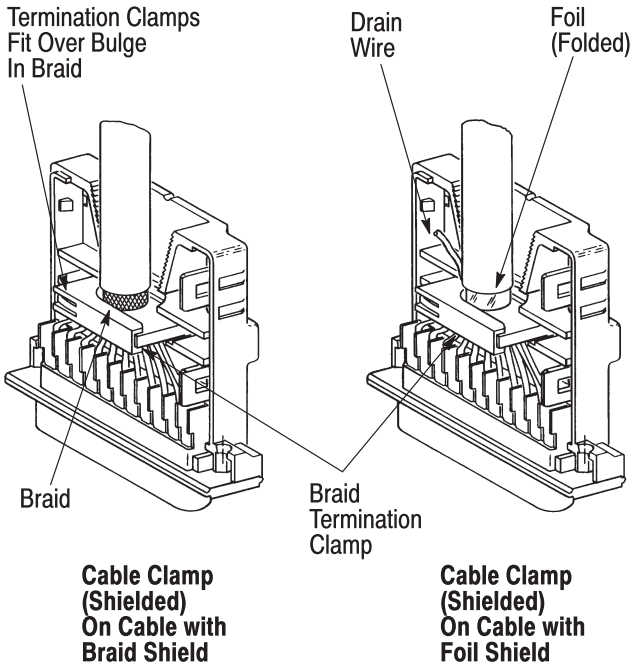


Figure 3

7. Place the remaining half of the cable clamp over the assembled half, and snap the two halves together. The internal locking lances will secure the halves.

8. Place a wedge on either side of the cable jacket and, applying equal pressure on the wedges, force them into the cable outlet of the assembled clamp until they grip the cable jacket firmly. See Figure 4.

9. Insert the two mounting screws by threading them into the holes in the clamp flanges. Each screw will be retained when it is threaded far enough to engage the undercut on the shaft of the screw.

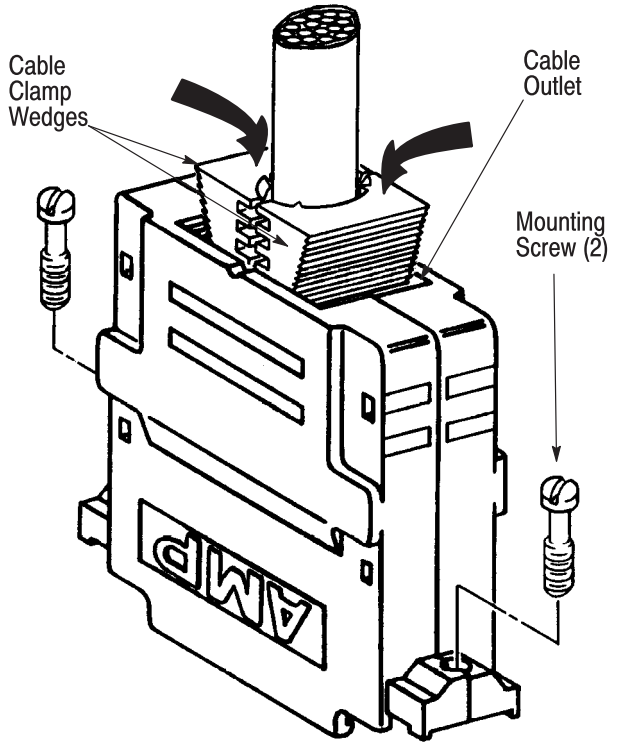


Figure 4

4. CABLE CLAMP DISASSEMBLY

In the event that a connector and a cable clamp assembly require disassembly for repair of a contact in the connector, special release tooling is required. The tool, Part Number 91266–2, is used to release the cable clamp halves without damaging them. Refer to Instruction Sheet 408–6906, packaged with the tool, for procedures and specifications relating to the release tooling.

5. REVISION SUMMARY

Revisions to this instruction sheet include:

- Replaced obsolete part numbers with RoHS complaint part numbers.
- Updated document format to corporate requirements.