

Fig. 1

INTRODUCTION

AMP EUROLATCH connectors are terminated to round-conductor ribbon cable, woven cable, ground-plane cable, jacketed ribbon cable, and twisted-pair cable, using the insulation-displacement termination. Precision tooling allows all contacts simultaneously to penetrate the cable and engage the conductors without the need to strip the insulation. A cover latches onto the assembly to protect the contacts and to provide strain relief.

All dimensions on this sheet are in inches followed by millimeters (in parens), unless otherwise stated.

2. DESCRIPTION (Figure 1)

An AMP EUROLATCH connector has a three-row housing, with two of the rows loaded with insulation-displacement contacts. The connector will mate with any of the Type C or Type R Eurocard pin connectors.

Each connector consists of three parts: housing, contacts, and cover. The cover comes partially installed in slots in the ends of the housing. The cable is inserted between the housing and the cover; the cover is pushed down onto the housing by the tooling,

thereby forcing the cable into the contacts.

Latches on the contacts latch to the slots in the cover. The slots can also be used for electrical continuity checking.

Connectors can be daisy chained on a cable.

3. CABLE

The contacts are designed to accept AWG 26, 28, or 30 (.012 to .05 mm²) solid conductors or AWG 28 (.09 to .08 mm²) stranded conductors. Recommended for use with AMP EUROLATCH connectors are the following AMP planar ribbon cable :

2-499116-3: a 100-ft (30.5 m) reel, with conductor 1 marked.

These 64-conductor ribbon cables have AWG 28 (.08 mm²) stranded conductors on .050-in. (1.27 mm) centerlines.

Other .050-in. (1.27 mm) cables can also be used, provided that they meet the specifications shown in Figure 2. For ground-plane cable, the ground plane must be removed from the termination area. For woven cable, the weaving must be removed and the wires untwisted.

For proper termination, the cable end must be squarely cut. We recommend the Carpenter 95 ribbon cable cutter, which can be purchased from:

Carpenter Manufacturing Company, Inc
Fairgrounds Drive
Manlius, NY 13104

4. TOOLING

AMP EUROLATCH connectors are terminated with Die Set 91264-1, which can be used in AMP Pneumatic Tool 91112-2 or AMP Manual Tool 91085-2. See the AMP instruction sheet packaged with the die set for information on the use of the die set.

Die Set 91221-1, used with AMP-LATCH★ receptacle connectors, can be adapted for AMP EUROLATCH

connectors by replacing the locator with Locator Kit 543200-1.

5. ASSEMBLY PROCEDURE

For further information on the termination procedure, see the instruction sheet supplied with the tooling.

1. Place the connector in the tooling assembly.
2. Place the cable between the housing and cover. In such cases as ground plane, shielded, or jacketed cable, make sure the cable is properly stripped to the dimensions shown in Figure 2.
3. Cycle the tooling to terminate the cable. If daisy chaining connectors, terminate them in the sequence of first through last on the cable.
4. Inspect the termination as follows:
 - a. Make sure the termination has latched the cover.
 - b. Make sure the flutes on the cover match the conductors of the cable.
 - c. If necessary, check electrical integrity through the test probe slots in the cover.

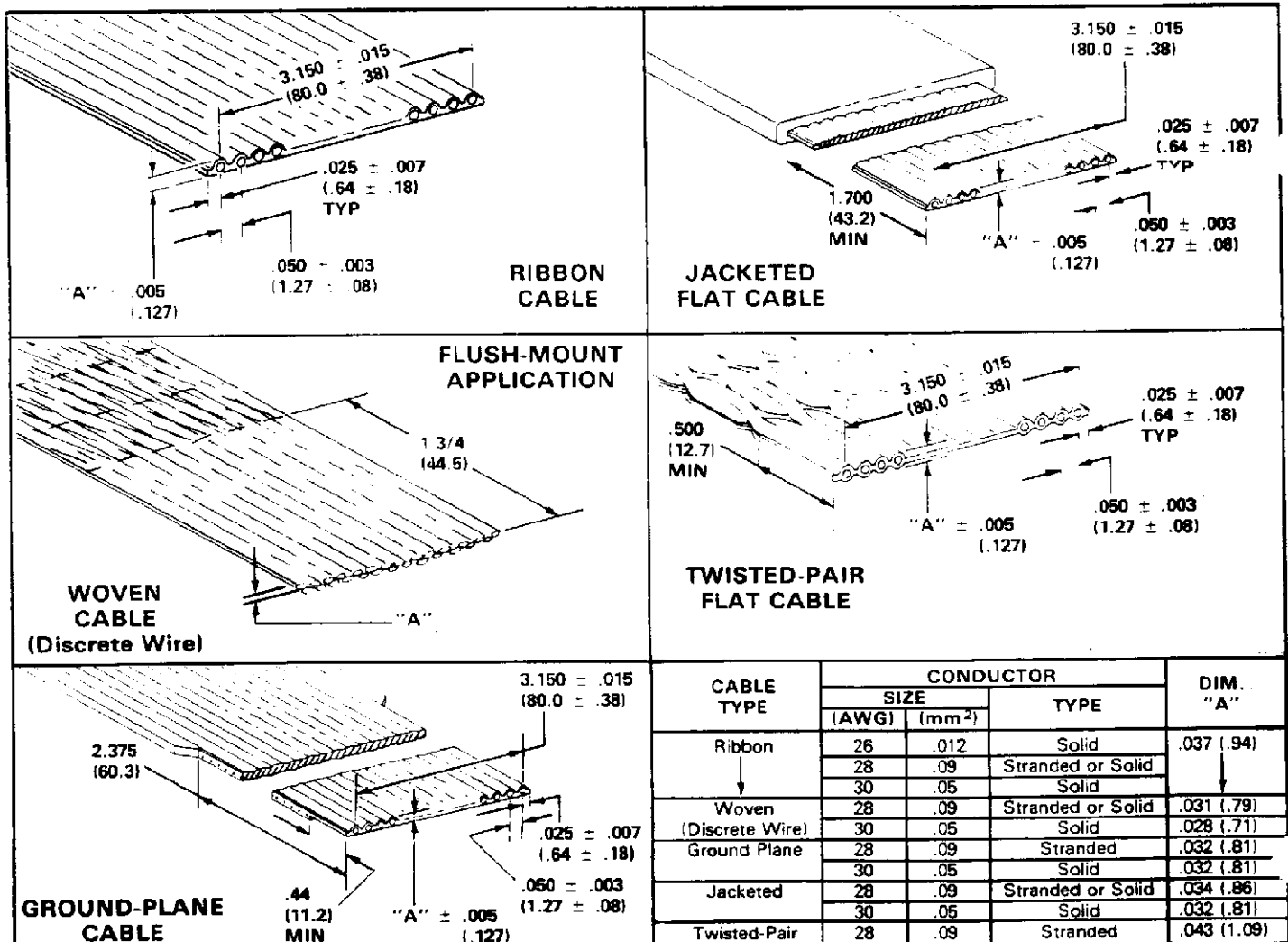


Fig. 2