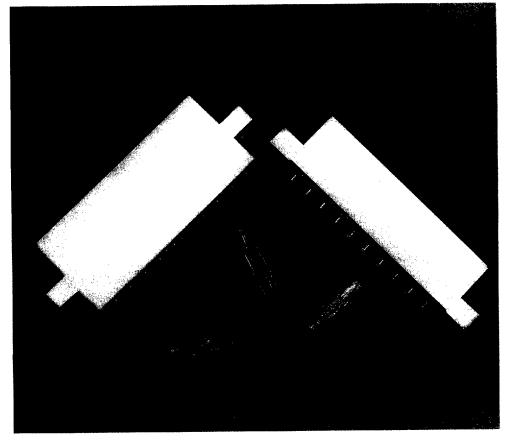
High Current Connectors

Product Facts

- High current capability up to 30 amperes*
- UL rated 94V-0 glass-filled thermoplastic housings
- Choice of wire-to-board and board-to-board (solder tail) connector configurations in 3, 4, 8, 9, 10 and 12 contact
- Heavy duty contacts made of high conductivity copper alloy with tin-over-nickel plating
- **■** Contacts on .312 [7.92] centers
- Large redundant areas of contact assure excellent electrical continuity
- Connectors available for mating with .062 [1.57], .093 [2.36] and .125 [3.18] thick double-sided PC hoards
- Contacts furnished in strip form for automatic machine termination and loose form for hand tool application
- Recognized under the Component Program of Underwriters Laboratories Inc. File No. E28476
- **■** Certified by Canadian **Standards Association** File No. LR 7189





AMP High Current Edge Connectors are an economical answer to the costly problem of interconnecting high current printed circuitry. Designed for a current capability of up to 30 amperes*, these connectors feature UL rated 94V-0, rugged glass-filled thermoplastic housings and high conductivity copper alloy contacts with bright tin-overnickel plating. Contacts are on .312 [7.92] centers.

Connectors are available in 3, 4, 8, 9, 10 and 12 contact positions and in a choice of two styles for board-toboard and wire-to-board applications.

The board-to-board connectors are supplied preloaded with solder tail contacts and are designed to mate with .062 [1.57] thick doublesided daughter boards.

Wire-to-board housings are available with and without mounting ears and with capabilities of mating with .062 [1.57], .093 [2.36] and .125 [3.18] thick doublesided daughter boards. These housings are designed to accept crimp, snap-in contacts which can accommodate a wire size range of 16-10 AWG [1.25-6 mm2]. Contacts are furnished in strip form for automatic machine termination and in loose form for hand tool application.

While the basic contact is designed to carry 30 amperes* of current, the actual number of contacts in a connector carrying 30 amperes is limited by the "T" rise of the connector and the PC board.

Performance Specifications

Contact Current Rating*:

30 amperes, max.

Dielectric Withstanding Voltage (Sea Level): 1800 VAC

Operating Voltage:

250 VAC, max.

Insulation Resistance:

1000 megohms, min.

Contact Resistance @ 30 amperes: 2 milliohms, max.

Operating Temperature:

-40°C to +95°C **Contact Engagement Force:**

40 oz. [11.12 N], max.

*When used with a .180 [4.57] wide double-sided PC board with 5 oz. [0.14 Kg] min. copper each side. Consult AMP engineering when paralleling contacts for power applications.



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High Current Connectors (Continued)

Crimp, Snap-In Contacts

Material and Finish:

Copper alloy CDA-195 plated .000150 [0.00381] bright tin over .000030 [0.00076] nickel

Related Product Data:

Performance Specifications page 142

Connector Housings—page 144 Application Tooling-pages 165, 166

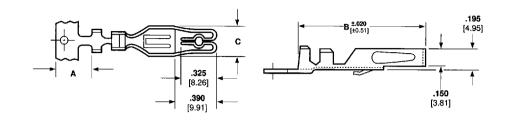
Technical Documents

(pages 172, 173):

AMP Product Specification 108-9045

AMP Application Specification 114-9005

AMP Instruction Sheets 408-7782, 408-7783, 408-7802



Wire Size Range		Ins. Dia.	Dimensions			Mateable	Contact Part Numbers		Applicator for	Hand Tool
AWG	mm²	Range	A	В	С	Daughter Board Thickness	Loose Piece	Strip Form	AMP-O-LECTRIC Machine	69710-1 Die Insert
16-14	1.25-2	. 090145 2.29-3.68		1.160 29.46		.062 1.57	530518-1	530517-2	466439-2	90333-1
12-10	3-6	.1 60210 4.06-5.33		1.230 31.24			530520-1	530519-2	466438-2	90332-1

^{*}Applicators are for Model "K" machines. Consult AMP for applicators for other bench machines and lead-making machines.



Hand Crimping Tool 69710-1



Extraction Tool 91116-1

Specifications subject to change.

Consult AMP for latest specifications.