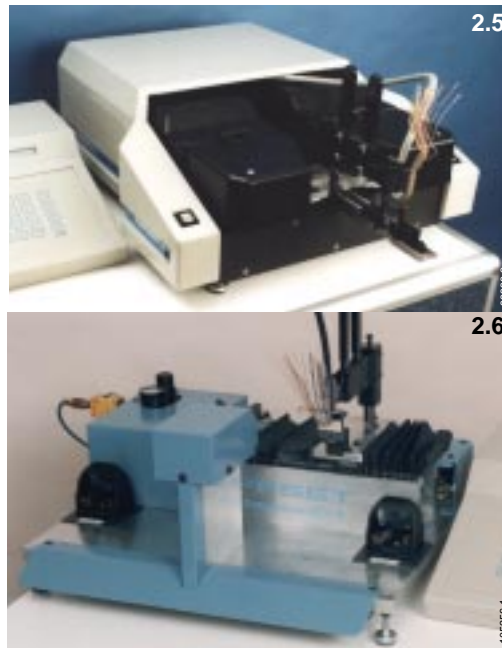


Product Facts

- Low applied costs
- Terminates most jacketed cable
- Straight (180°) or right-angle (90°) wire dress
- Microprocessor controlled
- Stored program capability
- Selective termination of connector positions
- Rapid tooling changeover for different connector types
- Manufactured under an ISO 9001 Certified Quality System

A copy of the certificate is available upon request.



The **CHAMPOMATOR 2.5 Terminating Machine** is a compact, semiautomatic bench machine for terminating multiconductor, jacketed cable with a variety of AMP connectors having insulation displacement contacts. It is microprocessor controlled, and programmed using a membrane-switch keyboard. Pertinent information for operation, including diagnostics and error conditions, is displayed on the control module.

The controller's memory can store data for up to 350 cable assemblies; data is automatically retained when the controller is turned off. The operator can choose to program any number of connector contacts, such as for various RS-232 wiring patterns. The machine will automatically index the connector through the programmed termination sequence.

The machine is easy to operate. First, clamp the cable end on the machine and load the appropriate

connector. Next, locate the pair of wires corresponding to the connector positions displayed on the control module. Then pull the wires downward—one in each hand on each side of the connector—along a pair of wire guides into the inserter assemblies. When the wires reach bottom, they are automatically terminated and trimmed. The machine is able to terminate just one wire at a time on either side. The mechanical retention of the wires by the contacts securely holds the wires in place while the cover is attached.

The **CHAMPOMATOR 2.6 Terminating Machine** terminates 30 AWG [0.06 mm²], .024 [0.61] maximum insulation diameter wires in the IDC contacts of 68-position 0.8 mm Offset CHAMP plugs. It uses a process similar to the Model 2.5 machine for wire handling. The Model 2.6 comes complete with a mandrel assembly, connector nest, and inserter package. A 180° cable clamp is provided with the machine.

The free-standing **CHAMPOMATOR 3A Terminating Machine** is the high-productivity way to terminate a variety of AMP connectors using insulation-displacement contacts. The machine automatically sorts wires from multiconductor jacketed cables and terminates them in a user-determined sequence. The sequence may include full termination of all contacts or selective termination of some, such as for various RS-232 wiring patterns.

All cable assemblies are tested for continuity and shorts.

The machine is microprocessor controlled and programmed by a touch input screen. The easy programming simplifies the process and reduces training requirements. The machine's internal storage capability can retain up to 50 cable assemblies, which can be easily retrieved by number or name. Production and diagnostics can also be accessed through the touch screen.

The machine can accommodate a variety of connectors through a simple tooling change. Tooling is currently available for CHAMP, AMPLIMITE HDE, and AMPMODU connectors. Consult AMP for other connector families.

Field engineering service, including machine setup and installation assistance, is provided under the warranty. This service is also offered for a fee after the warranty period has expired.

Need more information?

For more information, specifically about tooling, call the AMP Tooling Assistance Center at **1-800-722-1111**.

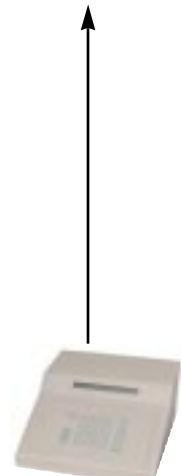
©1989, 1993, 1995, and 1998 by AMP Incorporated.
All Rights Reserved.

AMP, AMPLIMITE, AMPMODU, CHAMP, and CHAMPOMATOR are trademarks.

Ordering Information

Each machine is shipped with a set of tooling for a specified application. A voltage-specific controller must be ordered separately for each Model 2.5 or 2.6 machine. Accessories are required for some connectors and must be ordered separately for each size connector.

Insulation Displacement Connector		Machine Part Numbers (Includes Tooling)	Required Accessory Part Numbers (Order Separately, Based on Connector Size)				Controller Part Numbers (Voltage-Specific)					
Product Family	Style		Connector Tie Bar		Nest for Plugs			Nest for Receptacles				
			Size	Part Number	Size	Part Number	Size	Part Number				
2.5	Subminiature D Connectors (AMPLIMITE)	.050 Series	354786-1	20	762637-1	60	762637-5	—				
				26	1-762637-1	68	762637-6					
				26-Slimline	1-762637-3	80	762637-7					
				28	1-762637-2	100	762637-9					
				40	762637-3	120	1-762637-0					
				50	762637-4							
	CHAMP Connectors	.050 Series Back-to-Back	1-354786-8	—								
				HDE	354786-4	Nest for Plugs		Nest for Receptacles				
						Size	Part Number	Size	Part Number			
						9	764000-1	9	764001-1			
						15	764000-2	15	764001-2			
						19	764000-5	19	764001-5			
25	764000-3	25	764001-3									
CHAMP Connectors	Standard	354786-2 (180° Dress) 354786-3 (90° Dress)	—									
			0.8 mm Series	354786-7 (180° Dress)	—							
					.050 Series	354786-6	—					
			Category 5	354786-8 (90° Dress) 1-354786-5 (180° Dress)			—					
							24-Pos. Back-to-Back With a Clamp	1-354786-6 (90° Dress) 1-354786-7	—			
			AMPMODU Connectors	MT					354786-9 (180° Dress) 1-354786-0 (90° Dress)	Connector Spacer		
Size	Part Number	Size			Part Number							
6	854028-1	26			1-854028-1							
8	854028-2	28			1-854028-2							
10	854028-3	30			1-854028-3							
12	854028-4	32			1-854028-4							
Level V	1-354786-1 (180° Dress) 1-354786-2 (90° Dress)	Connector Spacer										
		Size		Part Number	Size	Part Number						
		8		854041-1	24	854041-7						
		10		854041-2	28	854041-8						
		12		854041-3	30	854041-9						
		16		854041-4	32	1-854041-0						
2.6	CHAMP Connectors	68-Pos. 0.8 mm Offset Plug	662300-1 (180° Dress)	—				852423-4 (U.S.A./120 VAC) 852423-5 (Europe/230 VAC)				
				3A	Subminiature D Connectors (AMPLIMITE)	HDE	662600-□* (180° or 90° Dress)	—				Not Required
CHAMP Connectors	Standard											
AMPMODU Connectors	Level V											



A Controller must be ordered separately for each Model 2.5 or 2.6 Machine.

852423-1 (U.S.A./120 VAC)
852423-3 (Europe/230 VAC)

*Each CHAMPOMATOR 3A Machine includes one set of tooling for one product family. Contact AMP for appropriate dash number.

Specifications

Engineering Review and Machine Orders

Refer to the Wire Accommodation section of the appropriate connector catalog, as referenced below, to determine if the customer wire has been approved by AMP. If the wire is unapproved, follow the instructions on page 4 of this catalog prior to placing a machine order.

Note: Customer wire is not used for Model 2.5 machine setup. It is used for Model 2.6 and 3A setup.

CHAMPOMATOR 2.5

Length — 24 [610]
Width — 24 [610]
Height — 12 [305]
Weight — 75 lb [34 kg]
Air Requirements —
 80 psi [5.52 bar] at
 .75 scfm [0.000354 m³/s]
Cycle Time (Typ.) —
 3-5 minutes (24-pos. connector),
 5-7 minutes (50-pos. connector)
Customer Manual — 409-5839

CHAMPOMATOR 2.6

Length — 21 [530]
Width — 16 [400]
Height — 10 [250]
Weight — 75 lb [35 kg]

Electrical Requirements —
 120 VAC, 60 Hz, 4 A
Air Requirements —
 80 psi [5.52 bar] at 1.13 scfm
 [0.000533 m³/s]
Cycle Time (Typ.) —
 6-9 minutes (68-pos. connector)
Customer Manual — 409-5892

Controller (for Model 2.5 or 2.6)

Length — 17 [440]
Width — 11 [285]
Height — 6 [150]
Weight — 21 lb [9 kg]
Electrical Requirements —
 120 VAC (U.S.A.), or 230 VAC (Europe);
 50/60 Hz; 4 A
Customer Manual — 409-5791

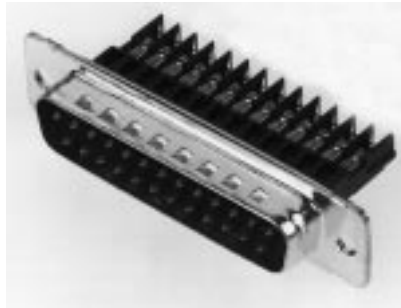
CHAMPOMATOR 3A

Length — 58 [1 475]
Width — 21 [535]
Height — 53 [1 345]
Weight — 300 lb [136 kg] approx.
Electrical Requirements —
 120 VAC, 50/60 Hz, single phase, 1 A
Air Requirements —
 80 psi [5.52 bar] at 4 scfm
 [0.001888 m³/s]
Cycle Time (Typ.) —
 .75 minute (25-pos. connector),
 1.1 minutes (50-pos. connector), or
 1.7 minutes (100-pos. connector)
Customer Manual — 409-5771

IDC Connectors Applied



AMPLIMITE .050 Connector (Catalog 82068)



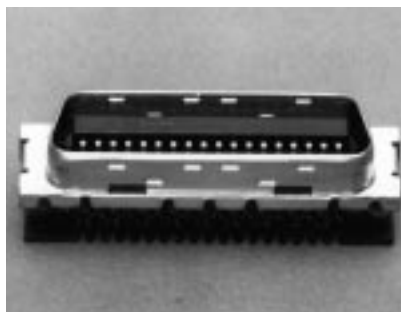
AMPLIMITE HDE Connector (Catalog 82068)



CHAMP Connector (Catalog 82008)



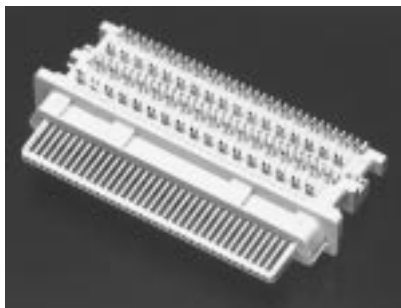
CHAMP 0.8 mm Connector (Catalog 65972)



CHAMP .050 Series Connector (Catalog 82244)



CHAMP Category 5 Connector (Catalog 296129)



CHAMP 0.8 mm Offset Plug (Part No. 787672-1)



AMPMODU MT Connector (Catalog 82104)



AMPMODU Level V Connector (Catalog 65816)

Cable Assembly Information Form for Wire

Customer Name and Address

Company _____

Customer Contact _____

Street Address _____

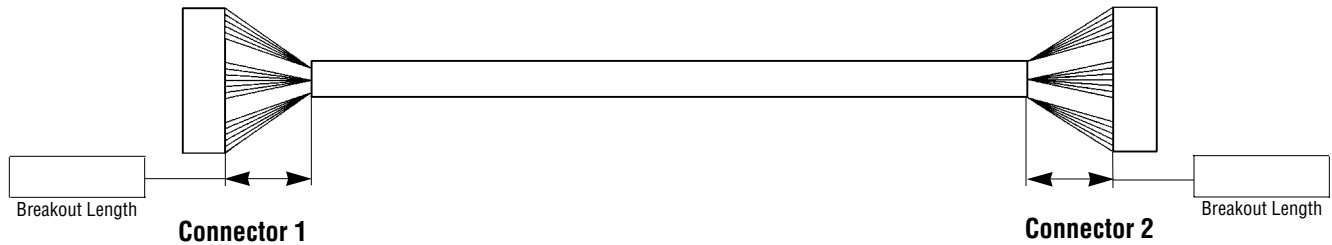
City _____ State _____ ZIP Code _____

IMPORTANT: If intending to use any wire other than AMP approved wire, complete this form prior to placing a machine order and submit the wire for engineering evaluation. Please ship a 50-ft [15-m] sample of each cable type to be terminated along with a completed copy of this form to:
ASG Filter Center 161-36
AMP Incorporated
100 AMP Drive
Harrisburg, PA 17112

Please note that this form is not required prior to ordering if using AMP approved wire.

Customer Cable Assembly Number

(Note: Complete one form for each cable assembly.)



Style (e.g. .050 Series, HDE, etc.) _____

No. of Positions _____

Male/Female _____

Connector Type (e.g. AMPLIMITE, CHAMP, etc.) _____

Connector Part No. _____

Wire Dress: 90° 180°

Style _____

No. of Positions _____

Male/Female _____

Connector Type _____

Connector Part No. _____

Wire Dress: 90° 180°

Cable Specifications

Wire Gage _____

No. of Wires _____ No. of Wires Terminated _____

Cable Manufacturer _____

Insulation Diameter _____ Insulation Tolerance _____

Insulation Type _____

Manufacturer Part No. _____

