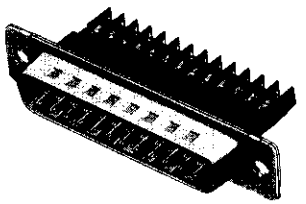
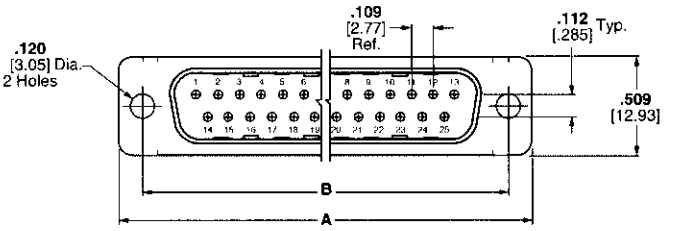
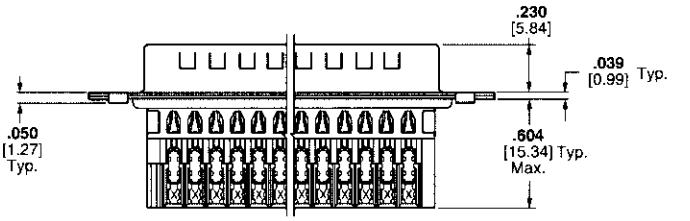
HDE-20 Metal-Shell IDC Connectors

Plug







Material and Finish:

Shell—Steel, tin plated
Insert—94V-0 rated thermoplastic, black
Contacts—Phosphor bronze
Contact Finish—Duplex plated:
A—.000030 [0.00076] gold on mating end, tin-lead on termination end, with entire contact nickel underplated
B—Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

Related Product Data:

Contact Arrangements—page 41
Performance Characteristics—page 42
Interchangeable Crimp Snap-In Contacts—page 126
Application Tooling—pages 126-128
Mateable Connectors:
HDP—pages 95-102
HD-20 Board Mount—pages 55-72, 83-90, 92-94
Mating/Panel Mounting—page 43
Cable Clamps—pages 137, 138, 140-142, 145, 146, 149, 150
Mating Hardware—pages 151-155, 158, 160

Technical Documents:

Product Specification—108-40011
Application Specifications—114-40002
114-40003
Instruction Sheet—408-6645
Note: Instruction Sheets for AMP Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111.**

Shell Size	No. of Contact Positions	Dimensions A	Dimensions B	Contact Finish (Plating Code)	Connector Part Numbers: Contact Identification No. 1 for 30-26 AWG [0.05-0.15mm²] Wire	Contact Identification No. 2 for 26-22 AWG [0.15-0.4mm²] Wire	Contact Identification No. 3 for 22-20 AWG [0.4-0.6mm²] Wire
					Plug	Plug	Plug
1	9	**1.213** 30.81	**.984** 24.99	A	745492-1	745492-2	745492-3
				B	—	745492-5	—
2	15	**1.541** 39.14	**1.312** 33.33	A	745494-1	745494-2	—
				B	—	745494-5	—
3	25	**2.088** 53.04	**1.852** 47.04	A	745496-1	745496-2	745496-3
				B	—	745496-5	745496-6
4	37	**2.729** 69.32	**2.500** 63.50	A	745498-1	745498-2	—
				B	—	745498-5	745498-6

Notes: 1. All connectors are preloaded with insulation displacement contacts. Pins in plug connectors and sockets in receptacle connectors. Contacts accept a max. wire insulation thickness of .015 [0.38] and a max. wire insulation dia. of .060 [1.52].
2. Connectors can be made available with clinch nuts, contact Tyco Electronics.
3. HDE connectors are designed for terminating solid or stranded (7-strand max.) wire.
4. Individual conductor strands should be larger than .005 inch [0.127] diameter.
5. Extraction Tool Part No. 91232-1 (Instruction Sheet 408-6631) is used to remove pin or socket contacts.
6. For terminating more than one wire, or a drain wire, use crimp contacts on page 126.

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967