

HDF-20 IDC Mass Termination Connector for Flat Ribbon Cable, .050 [1.27] Conductor Centres

Product Facts

- Available in all 5 standard shell sizes
- Selection of through holes, 4-40 threaded inserts or 4-40 threaded self-locking inserts
- Option of 90° or 180° cable
- Low terminated height from the mounting flange to the back of the connector
- Visual inspection of termination possible
- Fluted cover provides positive alignment of cable prior to termination
- Wide range of application tooling—from portable hand tool to bench mounted pneumatic semi-automatic equipment
- Patented insulation displacement contact latches into the connector
- Contact design provides a "gastight" termination
- Contacts accept 28 AWG [0.08mm²] solid and stranded, and 26 AWG [0.15mm²] solid and stranded round conductor flat ribbon cable on .050 [1.27] centres
- Qualified to Battelle Level III environments
- Contacts are duplex plated with gold on the mating end and tin-lead on the termination end
- Recognised under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Listed under Underwriters
 Laboratories Inc., Standard
 1863, Communication
 Circuit Accessories,
 File No. E81956
- Certified by Canadian Standards
 Association, File No. LR 7189



HDF-20 Low Profile Metal-Shell Connectors (for Round Conductor Flat Ribbon Cable)

Plug Assemblies (with Grounding Indents)



Housing and Covers are Preassembled; Cable Stabiliser is Separate.

Material and Finish:

Front Shell—Steel, tin plated Housing, Cover & Cable Stabiliser—Black thermoplastic, 94V-0 rated

Threaded Inserts—Brass, unplated Contacts—Phosphor bronze, duplex plated .000030 [0.00076] gold on mating end, .000100-.000200 [0.00254-0.00508] bright tin-lead on termination end, with entire contact underplated .000050 [0.00127] nickel

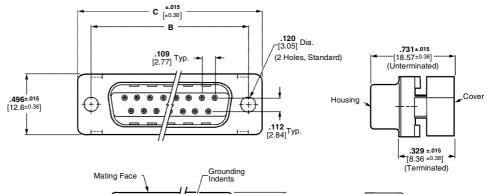
Technical Documents:

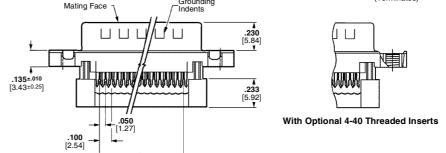
Product Specifications

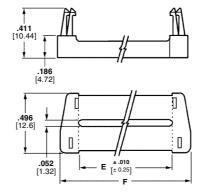
108-40004 Ribbon Cable, PVC Insulated, AMP 108-40012 HDF-20 Low Profile Connectors

Application Specification

114-40005 Ribbon Cable Connectors







Optional Cable Stabiliser—90° or 180° Exit

No. of							Plug Assembly Part Numbers	
Contact Positions (Shell Size)			Dimensi	ions		Optional Cable Stabiliser	With	With
	В	С	D	E	F	Part Numbers	Standard Mounting Holes	Threaded Inserts
9 (1)	.984 24.99	1.216 30.89	.400 10.16	.480 12.19	.759 19.28	747275-4	747306-4	747043-4
15 (2)	1.312 33.32	1.541 39.14	.700 17.78	.780 19.81	1.087 27.61	747275-3	747306-3	747043-3
25 (3)	1.852 47.04	2.090 53.09	1.200 30.48	1.280 32.51	1.623 41.22	747275-2	747306-2	747043-2
37 (4)	2.500 63.50	2.732 69.39	1.800 45.72	1.880 47.75	2.275 57.78	747275-1	747306-1	747043-1

Note: All plug assemblies are supplied with housing and cover preassembled (shown above).

www.tvcoelectronics.com



HDF-20 Low Profile Metal-Shell Connectors (for Round Conductor Flat Ribbon Cable)

Socket Assemblies



Housing and Covers are Preassembled; Cable Stabiliser is Separate.

Material and Finish:

Front Shell—Steel, tin plated Housing, Cover & Cable Stabiliser—Black thermoplastic, 94V-0 rated

Threaded Inserts—Brass, unplated Socket Contacts—Phosphor bronze, duplex plated .000030 [0.00076] gold on mating end, .000100-.000200 [0.00254-0.00508] bright tin-lead on termination end, with entire contact underplated .000050 [0.00127] nickel

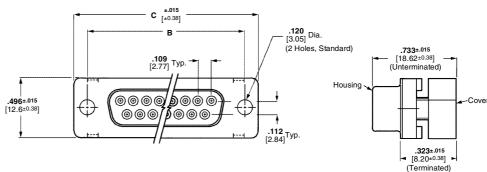
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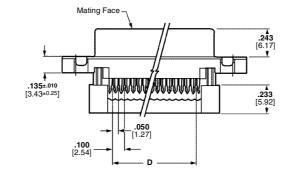
Product Specifications

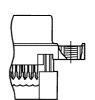
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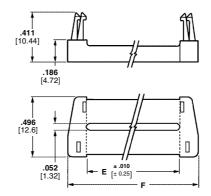
114-40005 Ribbon Cable Connectors







With Optional 4-40 Threaded Inserts



Optional Cable Stabiliser-90° or 180° Exit

No. of							Socket Assembly Part Numbers		
Contact			Dimens	ions		Optional Cable Stabiliser	With	With	
Positions (Shell Size)	В	С	D	E	F	Part Numbers	Standard Mounting Holes	Threaded Inserts	
9 (1)	.984 24.99	1.216 30.89	.400 10.16	.480 12.19	.759 19.28	747275-4	747303-4	747052-4	
15 (2)	1.312 33.32	1.541 39.14	.700 17.78	.780 19.81	1.087 27.61	747275-3	747303-3	747052-3	
25 (3)	1.852 47.04	2.090 53.09	1.200 30.48	1.280 32.51	1.623 41.22	747275-2	747303-2	747052-2	
37 (4)	2.500 63.50	2.732 69.39	1.800 45.72	1.880 47.75	2.275 57.78	747275-1	747303-1	747052-1	

Note: All plug assemblies are supplied with housing and cover preassembled (shown above).



HDF-20 Low Profile All-Plastic Connectors (for Round Conductor Flat Ribbon Cable)

Plug Assemblies



Housing and Covers are Preassembled; Cable Stabiliser is Separate.

Material and Finish:

Housing, Cover & Cable Stabiliser—Black thermoplastic, 94V-0 rated

Threaded Inserts—Brass, unplated Pin Contacts—Phosphor bronze, duplex plated .000030 [0.00076] gold on mating end, .000100-.000200 [0.00254-0.00508] bright tin-lead on termination end, with entire contact underplated .000050 [0.00127] nickel

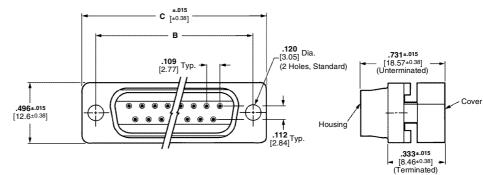
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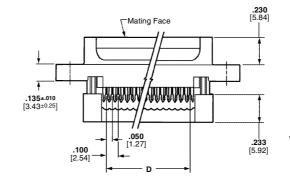
Product Specifications

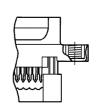
108-40004 Ribbon Cable, PVC Insulated, AMP 108-40012 HDF-20 Low Profile Connectors

Application Specification

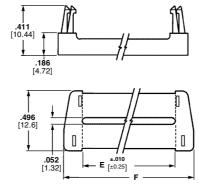
114-40005 Ribbon Cable Connectors







With Optional 4-40 Threaded Inserts



Optional Cable Stabiliser-90° or 180° Exit

No. of							Plug Assembly Pa		
Contact Positions (Shell Size)			Dimensio	ns		Optional Cable Stabiliser Part Numbers	With	With	
	В	С	D	E	F		Standard Mounting Holes	Threaded Inserts	
9 (1)	.984 24.99	1.216 30.89	.400 10.16	.480 12.19	.759 19.28	747275-4	747321-4	747053-4	
15 (2)	1.312 33.32	1.541 39.14	.700 17.78	.780 19.81	1.087 27.61	747275-3	747321-3	747053-3	
25 (3)	1.852 47.04	2.090 53.09	1.200 30.48	1.280 32.51	1.623 41.22	747275-2	747321-2	747053-2	
37 (4)	2.500 63.50	2.732 69.39	1.800 45.72	1.880 47.75	2.275 57.78	747275-1	747321-1	747053-1	
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Note: All plug assemblies are supplied with housing and cover preassembled (shown above).

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HDF-20 Low Profile All-Plastic Connectors (for Round Conductor Flat Ribbon Cable)

Socket Assemblies



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Material and Finish:

Housing, Cover & Cable Stabiliser—Black thermoplastic, 94V-0 rated

Threaded Inserts—Brass, unplated Socket Contacts—Phosphor bronze, duplex plated .000030 [0.00076] gold on mating end, .000100-.000200 [0.00254-0.00508] bright tin-lead on termination end, with entire contact underplated .000050 [0.00127] nickel

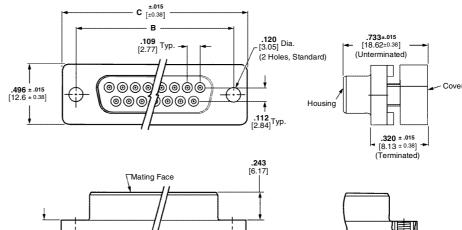
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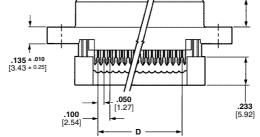
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108-40004 Ribbon Cable, PVC Insulated, AMP 108-40012 HDF-20 Low Profile Connectors

Application Specification

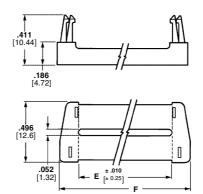
114-40005 Ribbon Cable Connectors







With Optional 4-40 Threaded Inserts



Optional Cable Stabiliser—90° or 180° Exit

No. of							Socket Assembly Part Numbers	
Contact Positions (Shell Size)	В	C	<u>imensior</u> D	E E	F	Optional Cable Stabiliser Part Numbers	With Standard Mounting Holes	With Threaded Inserts
9 (1)	.984 24.99	1.216 30.89	.400 10.16	.480 12.19	.759 19.28	747275-4	747318-4	747051-4
15 (2)	1.312 33.32	1.541 39.14	.700 17.78	.780 19.81	1.087 27.61	747275-3	747318-3	747051-3
25 (3)	1.852 47.04	2.090 53.09	1.200 30.48	1.280 32.51	1.623 41.22	747275-2	747318-2	747051-2
37 (4)	2.500 63.50	2.732 69.39	1.800 45.72	1.880 47.75	2.275 57.78	747275-1	747318-1	747051-1

Note: All plug assemblies are supplied with housing and cover preassembled (shown above).