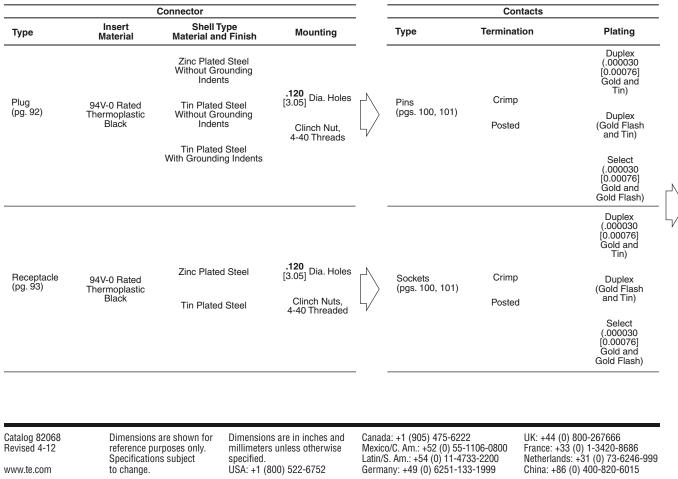


HDP-20 Crimp Snap-In Contact Connectors



Product Selection Guide



millimeters unless otherwise

USA: +1 (800) 522-6752

specified.

90

Catalog 82068 Revised 4-12

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reference purposes only.

Specifications subject

to change.



HDP-20 Crimp Snap-In Contact Connectors (Continued)

Product Facts

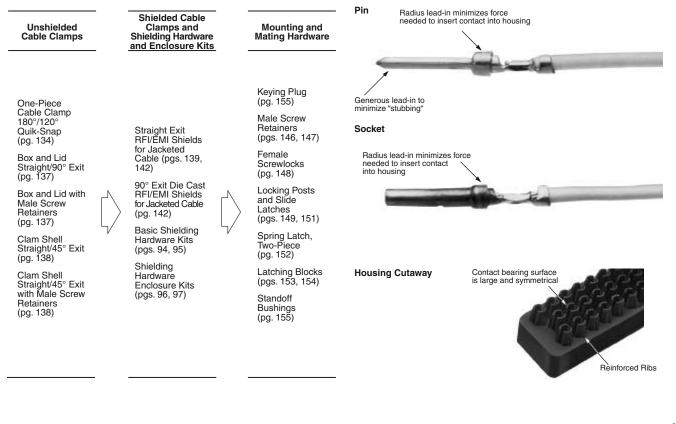
- Shell sizes offer wide choice of contact positions—9, 15, 25, 37 and 50
- Lower cost, commercial version of the military approved series
- Tin or zinc plated shells, with or without grounding indents
- Crimp snap-in contacts allows loading of only the number of contacts being used
- Available with shielding hardware and shielding enclosure kits
- Numerous cable clamps and mating hardware options
- Low cost, high performance, precisionformed crimp contacts

- Machine applied terminations assure highest production rates at lowest applied cost
- Intermateable with any size 20 Subminiature D connector dimensionally complying with MIL-C-24308
 - Recognized 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 1088108 (LR 7189-207)

Section Contents

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Preassembled Shielded Connector Kits	
Ferrules for Shielding Hardware Kits	
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Application Tooling	102





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Plug

HDP-20 Crimp Snap-In Contact Connectors (Continued)



Material and Finish:

Shell—Steel, zinc or tin plated Insert—94V-0 rated thermoplastic, black

Mounting Holes:

Cable Connectors

Standard—.120 [3.05] Dia. Clinch Nut—4-40 threads with self-locking feature

Related Product Data:

Contact Arrangements—page 40 Performance Characteristics page 41

Contacts—pages 100, 101 Application Tooling—page 102

Mateable Connectors: HDE—pages 110-123 HDP—pages 90-102 HD-20 Board Mount pages 54-71, 78-85, 87-89

Mating/Panel Mounting—page 42 Cable Clamps—pages 132, 133, 135-137, 140, 141, 144, 145 Mating Hardware—pages 146-150, 153, 155

Technical Documents:

Product Specification—108-40005

Application Specifications— 114-10000, 114-40030



Clinch Nut (Plug and Receptacle)

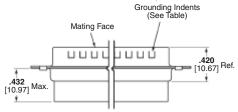
Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111.**

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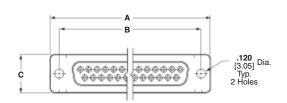


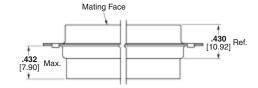


HDP-20 Crimp Snap-In Contact Connectors (Continued)



Receptacle







	No. of						PI	ug Part Numbe	ers	Becenteel	e Part Nos.	
Shell		Dimensions		ıs	Insert Mounting	Zinc	Tin Pla	ted Shell	Zinc	Tin		
Size	Contact Positions	A	В	С	Material	Method	Plated Shell	Without Grounding Indents	With Grounding Indents	Plated Shell	Plated Shell	
4	9	1.213	.984	.494	94V-0	Standard	205204-9	205204-8	205204-4	205203-8	205203-3	
1 9	⁹ 30.81 24.9	24.99	24.99 12.55	55 940-0	Clinch Nut	—	1658642-2	1658642-1	_	1658643-1		
2	a 45 1		1.541	1.312	.494	94V-0	Standard	205206-9	205206-8	205206-3	205205-7	205205-2
2	15		33.33	12.55	94 -0	Clinch Nut	_	_	5745908-2	_	1658644-1	
0	05	2.088	1.852	.494	0414.0	Standard	5205208-1	207464-7	207464-2	5205207-1	207463-1	
3	25	53.04	47.04	12.55	94V-0	Clinch Nut	_	_	5745036-2	207516-6	207516-5	
	07	2.729	2.500	.494	0.014.0	Standard	205210-8	205210-7	205210-3	205209-7	205209-2	
4	37	69.32	63.50	12.55	94V-0	Clinch Nut	_	_	745135-4	_	5207661-3	
-	50	2.635	2.406	.605	0414.0	Standard	1658641-3	1658641-1	1658641-2	1658640-2	1658640-1	
5		50	50	66.93	61.11	15.37	94V-0	Clinch Nut	_	_	5745883-2	_

Note: Plugs accept size 20 DF pin contacts and receptacles accept size 20 DF socket contacts.



Clinch Nut (Plug and Receptacle)

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111.**

Note: All part numbers are RoHS compliant.

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HDP-20 Basic Shielding Hardware Kits

Plug



Each kit contains:

Connector

Cable Connectors

- Inner shield
- Outer shield

Contacts and ferrules must be purchased separately.

Material and Finish:

Connector Shells—Steel, tin plated Connector Insert—94V-0 rated thermoplastic, black Shield—Steel, tin plated

Related Product Data:

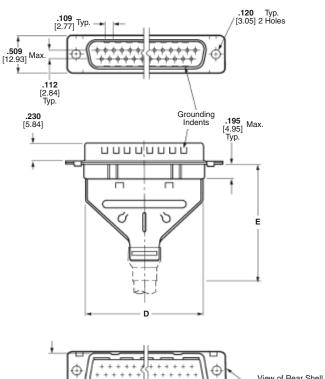
Contact Arrangements—page 40 Performance Characteristics page 41 Contacts—pages 100, 101 Application Tooling—page 102 Mateable Connectors: HDE—pages 110-123 HDP—pages 90-102 HD-20 Board Mount pages 54-71, 78-85, 87-89 Mating/Panel Mounting—page 42 Mating Hardware—pages 146-150, 153, 155 Ferrules—page 99

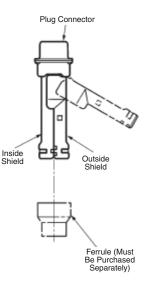
Technical Documents:

Product Specifications— 108-40005 108-40030 Application Specifications— 114-10000 114-40030

Instruction Sheet—408-9010

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111.**





View of Rear Shell (With Shields Removed)

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.462 [11.73] Max.

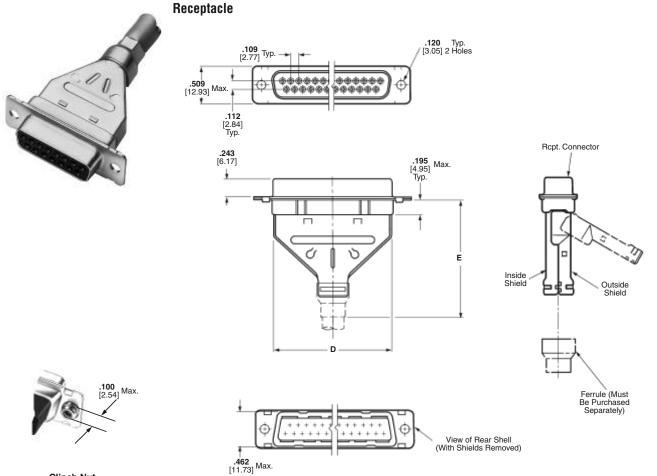
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HDP-20 Basic Shielding Hardware Kits (Continued)



Clinch Nut
(Plug and Receptacle)

Shell	No. of Contact	Dimensions		Recommended Cable	Max. Inner Cable	Mounting	Plug Kit Numbers	Receptacle Kit Numbers	
Size	Positions	D	E	Outer Dia. Range	Bundle Dia.†	Method	Flug Kit Nullibers	Receptacie Kit Numbers	
-	0	.700	1.535	.165455	.350	Standard	1658645-1	1658646-1	
1	9	17.78 38.99 4.19-11.56	4.19-11.56	4.19-11.56	4.19-11.56	8.89	Clinch Nut	5748526-1	5748536-1
2	15	15 1.024	1.024 1.535 26.01 38.99	.165455 4.19-11.56	.350	Standard	1658647-1	5747539-1	
2	15	26.01			8.89	Clinch Nut	5750636-1	5787908-1	
3	25	1.576	1.535	.165455	.350	Standard	1658648-1	1658649-1	
3	25	40.03	38.99	4.16-11.56	8.89	Clinch Nut	_	1658662-1	
		2.215	1.892	.338562	.450	Standard	1658650-1	1658651-1	
4	37	56.26	48.06	8.59-14.28	11.43	Clinch Nut	5786929-1	—	
5	50	2.120 53.85	1.876 47.65	.338480 8.59-12.19	.450 11.43	Standard	1658652-1	1658653-1	

Notes: 1. Plugs accept size 20 DF pin contacts and receptacles accept size 20 DF socket contacts.

2. Components of the kits are shipped unassembled and bulk-packaged in quantities of 100 pieces.

†Maximum cable diameter after jacket and braid removed.

Note: All part numbers are RoHS compliant.

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Specifications subjectDimensions are in inches and
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China: +86 (

95

Cable Connectors



Plug

HDP-20 Shielding Hardware Enclosure Kits



Each Kit Contains:

- Connector
- Inner shield
- Outer shield
- Enclosure

Cable Connectors

Two jackscrews

Contacts and ferrules must be purchased separately.

Material and Finish:

Connector Shells-Steel, tin plated. Connector Insert-94V-0 rated thermoplastic, black Shield-Steel, tin plated Enclosure—PVC, black Jackscrews—Zinc alloy

Related Product Data:

Contact Arrangements—page 40 Performance Characteristicspage 41 Contacts-pages 100, 101 Application Tooling—page 102 Mateable Connectors: HDE—pages 110-123 HDP—pages 90-102 HD-20 Board Mountpages 54-71, 78-85, 87-89 Mating/Panel Mounting-page 42 Mating Hardware—pages 146-150, 153, 155 Ferrules—page 99

Technical Documents:

Product Specifications-108-40005 108-40030

Application Specifications— 114-10000 114-40030

Instruction Sheet—408-9172 Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling

Assistance Center: 1-800-722-1111.

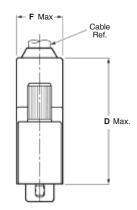
96

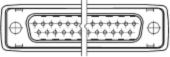
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Expanding Neck Accommodates Cable Ferrule (Must Be Purchased Separately, As Required By **.125** [3.18] Max. Cable Diameter Jackscrew Qty. 2 1 Shield 2 **1.467** [37.26] Qty. 2 .812 Typ. [20.62] Typ. ш Enclosure ۵ <u>____</u> E Max Plug Connector HDP-20







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reference purposes only. millimeters unless otherwise Specifications subject specified. USA: +1 (800) 522-6752

Dimensions are in inches and

Dimensions are shown for

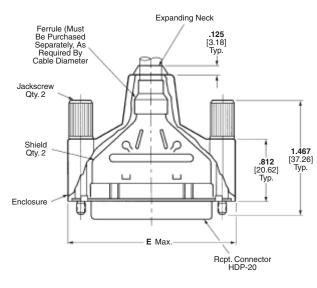
to change.

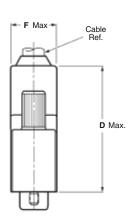


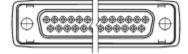
HDP-20 Shielding Hardware Enclosure Kits (Continued)



Receptacle







Shell	No. of Contact	Di	mensio	ns	Recommended Cable Outer	Max. Inner Cable	Insert	Kit Nu	mbers	Shield Enclos Expan	sure sion
Size	Positions	D	E	F	Diameter Range	Bundle Dia.†	Material	Plug	Receptacle	Too Cable O.D. (Max.)	Part Number
1	9	1.660 42.16	1.355 34.42	.630 16.00	.190330 4.83-8.38	.330 8.38	94V-0	1658655-1	1658654-1	.330 8.38	58241-4
2	15	1.660 42.16	1.685 42.80	.630 16.00	.190330 4.83-8.38	.330 8.38	94V-0	1658657-1	1658656-1		
3	25	1.660 42.16	2.210 56.13	.630 16.00	.217435 5.51-11.05	.350 8.89	94V-0	1658659-1	1658658-1	.450 11.43	58241-1
4	37	2.010 51.05	2.865 72.77	.730 18.54	.338562 8.59-14.28	.450 11.43	94V-0	5747958-1	1658660-1	.572	58241-2
5	50	2.010 51.05	2.775 70.49	.730 18.54	.338562 8.59-14.28	.450 11.43	94V-0	1658661-1	5747959-1	14.52	JO241-2

Notes: 1. Plugs accept size 20 DF pin contacts and receptacles accept size 20 DF socket contacts.

2. Components of the kits are shipped unassembled and bulk-packaged in quantities of 100 pieces.

†Maximum cable diameter after jacket and braid removed.

Note: All part numbers are RoHS compliant.

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Shielded Connector, Preassembled Kit

Designed to meet the requirements of Local Area Networking, this Subminiature D Shielded Connector Kit is available with slide latches attached to the receptacle. The receptacle is shielded and covered with a durable plastic enclosure. This shielding decreases emissions and provides an effective EMI/RFI barrier.

Preassembled connector kits are available in Subminiature D, shell size 2, 15-position configuration and accept crimp, snap-in HD-20 contacts. Contacts are available separately and allow for selective positioning.

Other sizes and styles can be made available, consult TE.

Material and Finish:

Cable Connectors

Inserts-94V-0 rated nylon, black Enclosures—Elastomer, styrene polyolefin, or PVC, black

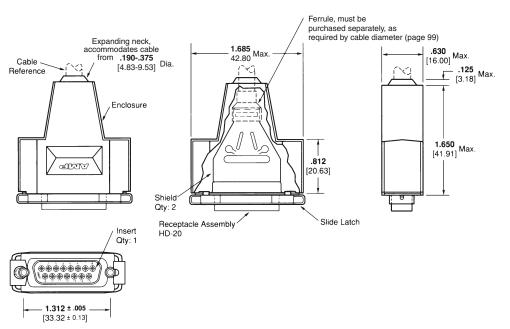
Shields and Shells—Carbon steel per ASTM A109, plated with .000200 [0.00508] min. tin over .000050 [0.00127] min. copper

Related Product Data:

Contact Arrangements—page 40 Performance Characteristicspage 41 Contacts—pages 100, 101 Application Tooling—page 102 Ferrules—page 99

Technical Documents:

Product Specifications-108-40005, 108-40030, 108-40032 Application Specifications-114-10000 & 114-40030



Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.

Receptacle Part No. 749246-1

Note: All part numbers are RoHS compliant.

specified.

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UK: +44 (0) 800-267666



HDP-20 Ferrules for Shielding Hardware Kits

Ferrules for Shielding Hardware Kits



Stepped



Straight

Material and Finish:

Steel (annealed), tin plated

Related Product Data:

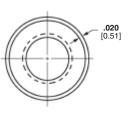
Shielding Hardware and Enclosure Kits—pages 94-98

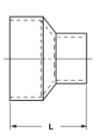
Technical Documents:

Instruction Sheets— 408-9507 408-9508

408-9243 408-9242

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111**.





Shell	a	L	Cable	Part Nu	mbers
Sizes	Style	Dim.	Diameter	Ferrule	Die Sets*
1-3	Stepped	.440 11.18	.165190 4.19-4.83	3-747579-0	543424-3
1-3	Stepped	.440 11.18	.190217 4.83-5.51	3-747579-0	543424-2
1-3	Stepped	.440 11.18	.217246 5.51-6.25	3-747579-0	543424-8
1-3	Stepped	.440 11.18	.246284 6.25-7.21	3-747579-2	543424-1
1-3	Stepped	.440 11.18	.284324 7.21-8.23	3-747579-2	543424-7
1-3	Stepped	.440 11.18	.324375 8.23-9.53	3-747579-4	543424-6
1-3	Straight	.440 11.18	.375437 9.53-11.10	2-747579-7	543424-5
1-3	Straight	.440 11.18	.400460 10.16-11.56	3-747579-6	543424-4
4-5	Stepped	.625 15.88	.230265 5.84-6.73	2-747580-4	543425-2
4-5	Stepped	.625 15.88	.338385 8.59-9.78	2-747580-3	543425-1
4-5	Stepped	.625 15.88	.375-432 9.53-10.97	2-747580-1	58238-1
4-5	Stepped	.625 15.88	.422490 10.72-12.45	3-747580-1	58237-2
4-5	Straight	.625 15.88	.480562 12.19-14.28	2-747580-2	58237-1

*Die sets used with Hand Crimping Tool Part No. 543344-1 or Pneumatic Bench Tool Part No. 312522-3 equipped with Die Set Holder Part No. 58449-1.

Application Tooling for Shielding Hardware Kits



Hand Crimping Tool No. 543344-1 (Requires Die Sets, see table above.)

Dimensions are shown for

reference purposes only. Specifications subject

to change.



Shielding Enclosure Expansion Tools Part No. 58241-1 (.450 [11.43])† 58241-2 (.572 [14.53])† 58241-4 (.330 [8.38])† †Maximum Cable Diameter (Instruction Sheet—408-9172)

Note: All part numbers are RoHS compliant.

Pneumatic Bench Tool No. 312522-3 (Requires Die Set Holder No. 58449-1.)



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HDP-20 Connector Contacts, Precision Formed

Contact Size 20 DF Pin Diameter .040 [1.02]

Material and Finish:

Pin—Brass

Socket—Phosphor bronze

Plated

Cable Connectors

A-Select-Gold flash over nickel on entire contact, with additional .000030 [0.00076] gold on mating end B—Duplex—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated C-Gold flash over nickel on entire contact **D**—Duplex—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Related Product Data:

Performance Characteristicspage 41 Connectors used with:

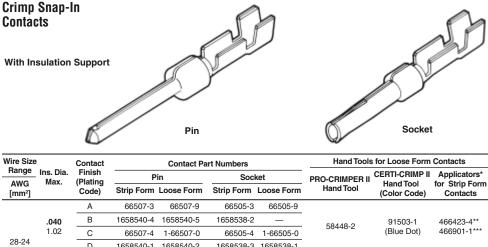
HDP—pages 92-97 Application Tooling—page 102

Technical Documents:

Product Specification-108-40005

Application Specifications— 114-10000 114-40030

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.



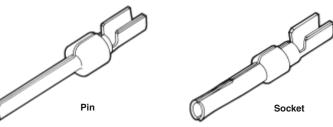
		.040	В	1658540-4	1658540-5	1658538-2	_	58448-2	91503-1	466423-4**
		1.02	С	66507-4	1-66507-0	66505-4	1-66505-0	50440-2	(Blue Dot)	466901-1***
	28-24 0.08-0.2		D	1658540-1	1658540-2	1658538-3	1658538-1			
	0.00 0.2		А	66682-2	66682-4	66683-2	66683-4			
		.060 1.52	В	5066682-9	—	1-5066683-0	—	—	91549-1 (Black Dot)	466963-1***
		1.02	D	5066682-6	_	5066683-7	_		(Black Bot)	
			А	745254-2	745254-6	745253-2	745253-6			
	26-22	.040	В	1658544-2	1658544-1	1658543-2	1658543-1	_	91525-1 (Yellow Dot)	466968-1***
	0.15-0.4	1.27	С	745254-3	745254-7	745253-3	745253-7	_		
			D	1658544-3	—	1658543-3	—			
			А	66506-3	66506-9	66504-3	66504-9			
		.060	В	1658539-1	1658539-3	1658537-3	1658537-4	58448-2	91503-1	466422-4**
		1.52	С	66506-4	1-66506-0	66504-4	1-66504-0	30448-2	(Red Dot)	466900-1***
			D	1658539-2	1658539-4	1658537-1	1658537-2			

*For Part Nos. of Special Applicators and Applicators for other model machines, call the TE Tooling Assistance Center at 1-800-722-1111.

**For use with AMP-O-LECTRIC Model "G" Terminating Machine.

***For use with AMP-O-MATIC Model II Stripper-Crimper Machine.





Insertion/Extraction Tool No. 91285-1

Instruction Sheet—408-9404

Wire Size		Contact	Contact Pa	rt Numbers	Hand To Loose Forr		
Range AWG [mm ²]	Ins. Dia. Max.	Finish (Plating Code)	Pin Strip Form	Socket Strip Form	CERTI-CRIMP II Hand Tool (Color Code)	Applicators* for Strip Form Contacts	
28-24 0.08-0.2	.068 1.73	А	205310-2	205311-3	91548-1 (Blue Dot)	466903-1***	
24-20	.068	А	205202-2	205201-3	91548-1	400000 4***	
0.2-0.6	1.73	С	205202-6	205201-6	(Red Dot)	466902-1***	
		А	745229-2	745230-2			
22-18	.068	В	1658541-1	1658542-2	91513-1	400000 4***	
0.4-0.8	1.73	1.73 C 745229		745229-5	745230-5	(Green Dot)	466996-1***
		D	_	1658542-1			

Note: Wire insulation diameter is limited by the connector housing cavity and clearance for the insertion/extraction tool.

*For Part Nos. of Special Applicators and Applicators for other model machines, call the TE Tooling Assistance Center at 1-800-722-1111.

***For use with AMP-O-MATIC Model II Stripper-Crimper Machine.

Note: All part numbers are RoHS compliant.

specified.

Dimensions are in inches and

millimeters unless otherwise

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HDP-20 Connector Contacts, Precision Formed (Continued)

Contact Size 20 DF Pin Diameter .040 [1.02] Material and Finish:

Pin—Brass

Socket—Phosphor bronze Plated:

A—Duplex plated .000030 [0.00076] gold on mating end, with entire contact .000050 [0.00127] min. nickel underplated

B—Duplex plated gold flash on mating end, with entire contact .000050 [0.00127] min. nickel underplated

Related Product Data:

Performance Characteristics—page 41

Connectors used with: HDP—pages 92, 93

Technical Documents:

Product Specification—108-40005 Application Specifications— 114-10000

114-10000

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111.**

Contact Size 20 DF Pin Diameter .040 [1.02] Material and Finish:

Pin—Brass

Socket—Phosphor bronze Plated—Gold flash over nickel on entire contact, with additional .000030 [0.00076] gold on mating end

Related Product Data:

Performance Characteristics—page 41

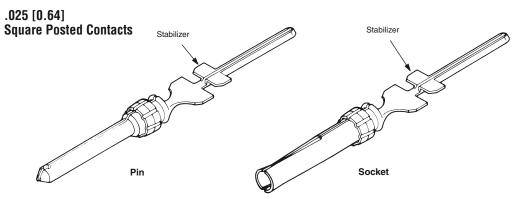
Connectors used with: HDP—pages 92-97

Technical Documents:

Product Specification—108-40005 Application Specification— 114-40030

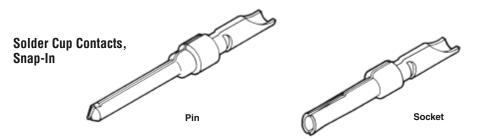
Insertion/Extraction Tool No. 91285-1

This tool includes interchangeable tips to Insert/Extract: Size 22, 28-22 AWG [0.08-0.4 mm²] Size 20, Posted Contacts (Instruction Sheet—408-9404)



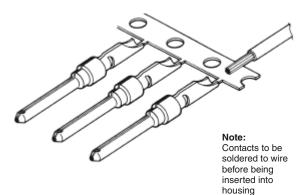
Contact Finish (Plating		Loose Form Contact Numbers									
	.125 [3.18] Post Length*		.188 [4.78] Post Length*		.427 [10.85] Post Length*		.651 [16.54] Post Length*				
Code)	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket			
А	—	5-745288-5	5-745287-4	7-745288-0	4-745287-7	5-745288-8	5-745287-0	6-745288-1			
В	_	_	_	—	_	7-745288-2	_	7-745288-2			

*Length of post extending from rear of HDP-20 metal-shell connector.



18 AWG Max. Wire (.046 [1.17] Max. Conductor Diameter)

Strip Contac	Form t Number	Loose Form Contact Number			
Pin	Socket	Pin	Socket		
66570-2	66569-2	66570-3	66569-3		



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Dimensions are shown for

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Cable Connectors



HDP-20 Application Tooling

HDP-20 contacts may be applied by a variety of hand tools and machines. For low production runs, repairs and prototype work, we offer either our premium CERTI-CRIMP Hand Tool or our commercial PRO-CRIMPER II Hand Tool. For medium-volume production, you have the choice of our AMP-O-LECTRIC Model "G" Terminating Machine, our new Model "M" Terminating Machine, or our AMP-O-MATIC Model II Stripper-Crimper Machine. The Stripper-Crimper is typically used for terminating the wires of jacketed cable. All three machines can be bench mounted.

Cable Connectors

For production requirements ranging from non-stop high volumes to countless series of short runs, our popular AMPOMATOR CLS IV+ fullyautomated lead-making machine is an ideal choice.

For further information about these or other TE hand tools and machines, call the TE Tooling Assistance Center at 1-800-722-1111.



AMPOMATOR CLS IV+ Lead-Making Machine

This versatile machine now incorporates two AMP-O-LECTRIC Model "G" Terminating Units. Basically, it produces single-wire leads in lengths from 1.62 [41.2] to 1000 [25 400]. It measures, cuts, strips and terminates wire sizes from 26 to 10 AWG [0.12 to 6 mm²] stranded and 26 to 16 AWG [0.12 to 1.4 mm²] solid. Production rates range up to 4800 leads per hour for 3 [76.2] lengths.

The machine is microprocessor controlled, and programmed and operated with an easy-to-follow, menudriven touchscreen. It can retain data for up to 200 lead assemblies. Off-line programming is also possible with optional software OffLine-Plus for Windows 95, Part No. 189263-2.

Air requirement is 90 psi [6.21] bar minimum at 15 scfm [0.0071 m³/s]. Power requirement is single-phase 220 VAC, 50 or 60 Hz, 25 A.

For further information request Catalog 124324.

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Note: All part numbers are RoHS compliant.

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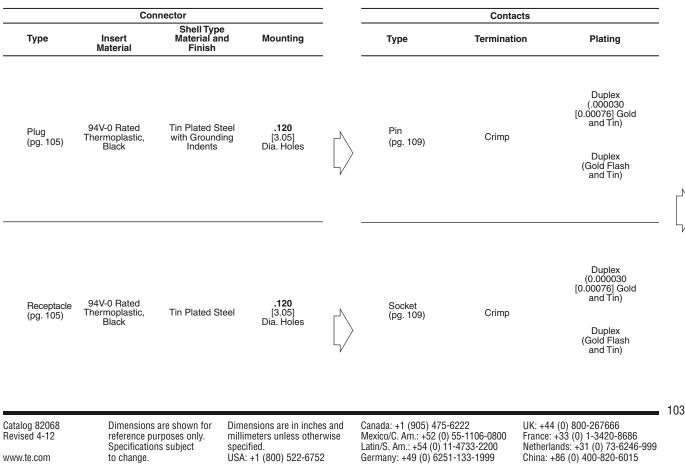
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HDP-22 Crimp Snap-In Contact Connectors



Product Selection Guide





HDP-22 Crimp Snap-In Contact Connectors (Continued)

Product Facts:

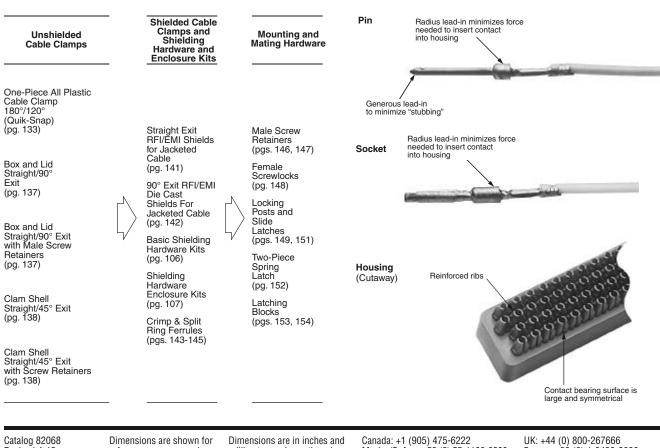
- Approximately 65% higher density than HD-20 connectors
- Lower cost, commercial version of the military approved Series 90 family
- Available with shielding overmold hardware and shielding enclosure kits
- Capable of using numerous standard HD-20 cable clamps and mating hardware

- Low cost, high performance, precisionformed crimp contacts
- Intermateable with any size 22 Subminiature Ď connector dimensionally complying with MIL-C-24308
- **Recognized under the Component Program of** Underwriters Laboratories Inc., 🔊 File No. E28476
- Listed under Underwriters Laboratories Inc., Standard 1863, Communication Circuit Accessories, (UL) File No. E81956
- Certified by Canadian Śtandards Association, File **S₽**∘ No. LR 1088108 (LR 7189-207)

Section Contents

Plug and Receptacle Connectors	105
Basic Shielding Hardware Kits	
Shielding Hardware Enclosure Kits	107
Ferrules for Shielding Hardware Kits	108
Contacts	
Application Tooling1	08, 109

Contact Retention Features



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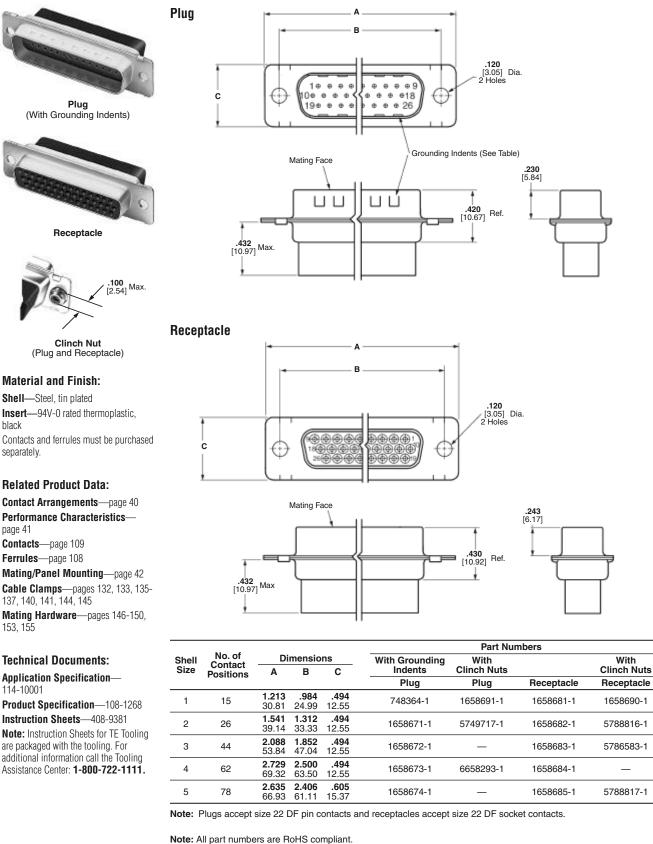
to change.

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HDP-22 Crimp Snap-In Contact Connectors (Continued)



Insert-94V-0 rated thermoplastic, black Contacts and ferrules must be purchased separately.

Related Product Data:

Contact Arrangements—page 40 Performance Characteristicspage 41

137, 140, 141, 144, 145

153.155

114-10001

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.

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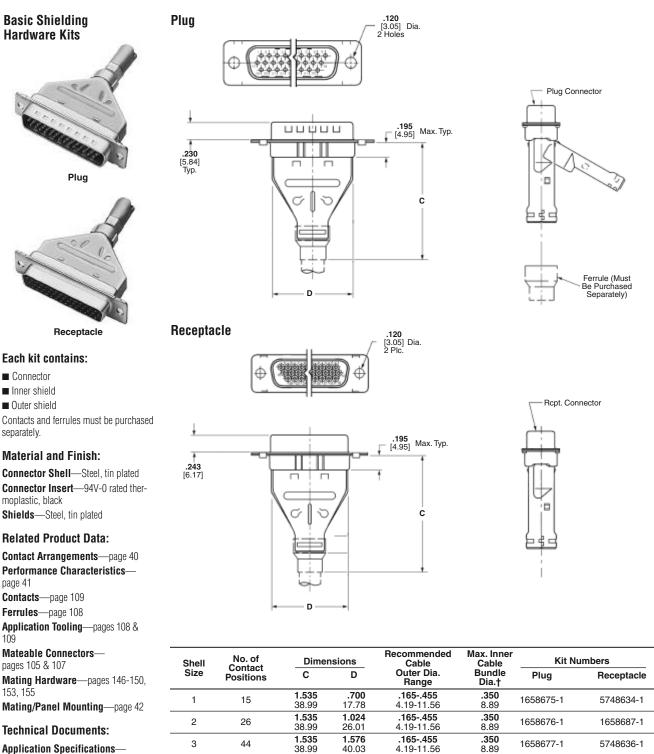
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Instruction Sheet-408-9381, 408-9010

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.

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separately.

page 41

109

153, 155

Shell	No. of	No. of Dimensions		Recommended Cable	Max. Inner Cable	Kit Nu	Kit Numbers	
Size	Positions	С	D	Outer Dia. Range	Bundle Dia.†	Plug	Receptacle	
1	15	1.535 38.99	.700 17.78	.165455 4.19-11.56	.350 8.89	1658675-1	5748634-1	
2	26	1.535 38.99	1.024 26.01	.165455 4.19-11.56	.350 8.89	1658676-1	1658687-1	
3	44	1.535 38.99	1.576 40.03	.165455 4.19-11.56	.350 8.89	1658677-1	5748636-1	
4	62	1.892 48.06	2.215 56.26	.338562 8.59-14.28	.450 11.43	5748471-1	_	
5	78	1.876 47.65	2.120 53.85	.338490 8.59-12.45	.450 11.43	5748472-1	_	

Notes: 1. Plugs accept size 22 DF pin contacts and receptacles accept size 22 DF socket contacts. 2. Components of the kits are shipped unassembled and bulk-packaged in quantities of 100 pieces. †Maximum cable diameter after jacket and braid removed.

Note: All part numbers are RoHS compliant.

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Dimensions are shown for



Shielding Hardware Enclosure Kits



Plug



Receptacle

Each kit contains:

- Connector
- Inner shield
- Outer shield
- Enclosure
- Two jackscrews

Contacts and ferrules must be purchased separately.

Material and Finish:

Connector Shell—Steel, tin plated Connector Insert—94V-0 rated thermoplastic, black Shields—Steel, tin plated Enclosure—PVC, black

Jackscrews—Zinc alloy

Related Product Data:

Contact Arrangements—page 40 **Performance Characteristics** page 41

Contacts—page 109

Ferrules—page 108 Application Tooling—pages 108 &

109

Mateable Connectors pages 105 & 106

Mating Hardware—pages 146-150, 153-155

Mating/Panel Mounting—page 42

Technical Documents:

Application Specifications— 114-10001

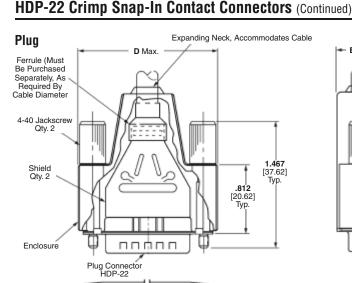
Product Specification—108-1268 Instruction Sheet—408-9381 408-9172

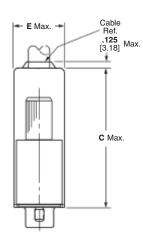
Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.

Dimensions are shown for

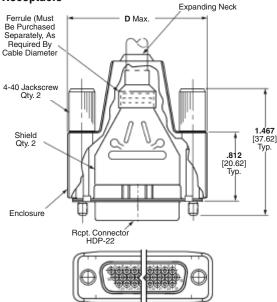
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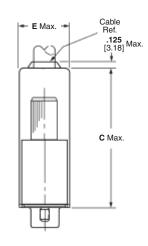
to change.





Receptacle





Shell No. of		Dimensions			Recommended Cable	Max. Inner	Kit Nu	Kit Numbers		nclosure n Tool
Size	Positions	С	D	Е	Outer Diameter	Cable Bundle Dia.†	Plug	Receptacle	Cable O.D. (Max.)	Part Number
1	15	1.640 41.66	1.355 34.42	.630 16.00		.330 8.38	1658678-1	1658688-1	.330	58241-4
2	26	1.640 41.66	1.685 42.80	.630 16.00		.330 8.38	1658679-1	1658689-1	8.38	50241-4
3	44	1.640 41.66	2.205 56.01	.630 16.00		.350 8.89	1658680-1	5748641-1	.450 11.43	58241-1
4	62	2.010 51.05	2.860 72.64	.730 18.54		.450 11.43	5748476-1	5748642-1	.572	58241-2
5	78	2.010 51.05	2.770 70.36	.730 18.54		.450 11.43	5748477-1	_	14.52	56241-2

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Notes: 1. Plugs accept size 22 DF pin contacts and receptacles accept size 22 DF socket contacts. 2. Components of the kits are shipped unassembled and bulk-packaged in quantities of 100 pieces.

 Components of the kits are shipped unassembled and bulk-packaged in quantities of 100 pieces †Maximum cable diameter after jacket and braid removed.

Note: All part numbers are RoHS compliant.

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HDP-22 Crimp Snap-In Contact Connectors (Continued)

Ferrules for Shielding Hardware Kits



Stepped



Straight

Material and Finish:

Cable Connectors

Steel (annealed), tin plated

Related Product Data: Shielding Hardware and Enclosure Kits—pages 106 & 107

Technical Documents:

Instruction Sheets-
408-9507
408-9508
408-9243
408-9242
Notes Instruction Chart

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111**.

Application Tooling for Shielding Hardware Kits



Hand Crimping Tool No. 543344-1 (Requires Die Sets, see table above.)

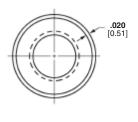
108

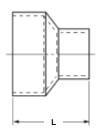
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Dimensions are shown for





Shell	Style	L	Cable	Part Nu	Part Numbers		
Sizes	Style	Dim.	Diameter	Ferrule	Die Sets*		
1-3	Stepped	.440 11.18	.165190 4.19-4.83	3-747579-0	543424-3		
1-3	Stepped	.440 11.18	.190217 4.83-5.51	3-747579-0	543424-2		
1-3	Stepped	.440 11.18	.217246 5.51-6.25	3-747579-0	543424-8		
1-3	Stepped	.440 11.18	.246284 6.25-7.21	3-747579-2	543424-1		
1-3	Stepped	.440 11.18	.284324 7.21-8.23	3-747579-2	543424-7		
1-3	Stepped	.440 11.18	.324375 8.23-9.53	3-747579-4	543424-6		
1-3	Straight	.440 11.18	.375437 9.53-11.05	7-747579-7	543424-5		
1-3	Straight	.440 11.18	.400460 10.16-11.56	3-747579-6	543424-4		
4-5	Stepped	.625 15.88	.230265 5.84-6.73	2-747580-4	543425-2		
4-5	Stepped	.625 15.88	.338385 8.59-9.78	2-747580-3	543425-1		
4-5	Stepped	.625 15.88	.375-432 9.53-10.97	2-747580-1	58238-1		
4-5	Stepped	.625 15.88	.422490 10.72-12.45	3-747580-1	58237-2		
4	Straight	.625 15.88	.480562 12.19-14.28	2-747580-2	58237-1		

*Die sets used with Hand Crimping Tool Part No. 543344-1 or Pneumatic Bench Tool Part No. 312522-3 equipped with Die Set Holder Part No. 58449-1.



Shielding Enclosure Expansion Tools Part No. 58241-1 (.450 [11.43])† 58241-2 (.572 [14.53])† 58241-4 (.330 [8.38])† †Maximum Cable Diameter (Instruction Sheet—408-9507)

Note: All part numbers are RoHS compliant.

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Pneumatic Bench Tool No. 312522-3 (Requires Die Set Holder No. 58449-1.)

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HDP-22 Crimp Snap-In Contact Connectors (Continued)

Material

Pin—Brass

Socket—Phosphor bronze

Finish

A-Duplex plated .000030 [0.00076] gold on mating end, tin on crimp barrel, with entire contact nickel underplated

B—Duplex plated gold flash on mating end, tin on crimp barrel, entire contact nickel underplated

Related Product Data:

Performance Characteristicspage 41

Connectors used with-pages 105-107

Technical Documents: Application Specification-

114-10001 Product Specification—108-1268

Instruction Sheet—408-9381

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.

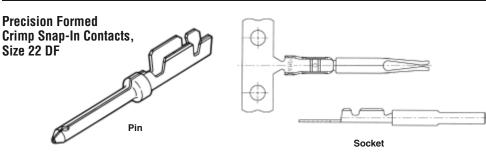


Applicators

To accommodate the broad range of wire termination products that TE produces most TE terminating machines are designed for use with interchangeable applicators. The basic styles are quickly interchangeable to minimize costly down times, and feature dial-in wire and insulation crimp-height settings. Special applicators are now available for use with the AMP Crimp Quality Monitor, for measuring the crimp height of each termination as it is made, plus evaluating the quality of each crimp.

For further information, request Catalog 65404.

For applicator part numbers, call the TE Tooling Assistance Center at 1-800-722-1111.



Wire		Contact	Contact Part Numbers				Hand Tools		
Size Diameter		Finish			Socket		for Loose Form Contacts		
AWG mm ²	Max.	(Plating Code)	Strip Form	Loose Form	Strip Form	Loose Form	PRO-CRIMPER II Hand Tool	CERTI-CRIMP II Hand Tool	
28-22	.040	Α	1658670-1	1658670-2	1658686-1	1658686-2	90800-1	91520-1	
0.4-0.08 1.02		В	1658670-3	1658670-4	1658686-3	1658686-4	90600-1	91520-1	

Notes: 1. Strip form contacts shipped 20,000 pieces/reel.

Insertion/Extraction Tool No. 91285-1 (Instruction Sheet—408-9404)

This tool contains interchangeable tips to Insert/Extract Size 22, 28-22 AWG [0.08-0.4 mm²] Crimp Contacts Size 20, 28-20 AWG [0.08-0.4 mm²] Crimp Contacts Size 20, Posted Contacts

Application Tooling



AMP-O-LECTRIC MODEL "G" **Terminating Machine**

A totally new design of our most popular machine for bench-top operation. It features a quiet and highly-reliable direct motor drive, electronic controls for ease of setup and operation, and improved guarding and lighting for operator convenience and safety. All versions also include either manual or automatic precision adjustment for crimp height. Power requirement is 120 or 220 VAC, 50 or 60 Hz.

For further information, request Catalog 65828.

AMP-O-MATIC Model II Stripper-Crimper Machine

This machine automatically strips as well as terminates individual wires. Similar to the AMP-O-LECTRIC Model "G" machine, applicators are quickly interchangeable, and it includes precision adjustment for crimp height. All adjustments can be made from the front of the machine without special tools. Power requirement is 120 VAC. Air requirement is 80-100 psi [5.52-6.89 bar], 3.5 scfm 0.00165 m³/sl.

For further information request Catalog 65004.



PRO-CRIMPER II Hand Tool Part No. 90800-1

Features interchangeable die sets and ratchet control that provides full die closure to help eliminate partial crimps. The new design is more durable, and requires dramatically less hand force

For further information, request Catalog 82276.

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HDE-20 IDC Connectors for Discrete Wire and Jacketed Cable



Product Selection Guide

		Connector	-			ntacts Loaded*		
Туре	Insert Material	Shell Type Material and Finish	Mounting	-	Туре	Termina	tion	Plating
Plug All-Plastic (pg. 112) Metal-Shell (pg. 114)	94V-0 Rated Thermoplastic, Black	Tin Plated Steel	.120 [3.05] Dia. Holes		Pins	Insulat Displace * Interchangea snap-in co available, see	ment able crimp ntacts	Duplex (.000030 [0.00076] Gold and Tin) Duplex (Gold Flash and Tin)
Receptacle All-Plastic (pg. 113) Metal-Shell (pg. 115)	94V-0 Rated Thermoplastic, Black	Tin Plated Steel	.120 [3.05] Dia. Holes		Sockets	Insulat Displace * Interchangea snap-in co available, see	ment able crimp ntacts	Duplex (.000030 [0.00076] Gold and Tin) Duplex (Gold Flash and Tin)
atalog 82068 evised 4-12 ww.te.com	Dimensions a reference pu Specification to change.	rposes only. millimete s subject specified.	ns are in inches and rs unless otherwise 800) 522-6752	Mexico Latin/S	Am.: +54 (0)	5-6222 0) 55-1106-0800 11-4733-2200 251-133-1999	Netherlands:	00-267666 0) 1-3420-8686 +31 (0) 73-6246-999) 400-820-6015

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Cable Connectors

Catalog 82068 Revised 4-12



-

(UL)

\$₽®

Selective loading of con-

Crimp snap-in contacts

available for making

Recognized under the

of Underwriters Laboratories Inc.,

File No. E28476

Communication

File No. E81956

Certified by

No. 1088108 (LR 7189-207)

Listed under

Component Program

Inc., Standard 1863,

Circuit Accessories,

Canadian Standards Association, File

jumpers between circuits

Underwriters Laboratories

tacts available

HDE-20 IDC Connectors for Discrete Wire and Jacketed Cable (Continued)

Product Facts

- Insulation displacement contacts preloaded in housings
- No wire stripping
- Post plated contacts with no bare edges
- Duplex plated contacts gold on mating end and tin on crimp end
- Patented contact ensures reliable termination of a wide range of wire sizes and insulation diameters
- Removable contacts for replacement and repair

Typical Application Rates

Tool	Rate
Pistol Style	7.4 Sec./Line
Arbor Tool	5.0 Sec./Line
CHAMPOMATOR Machine	2.8 Sec./Line

Note: Rates are based on total time to complete a double ended 25 position Jacketed Cable Assembly

Unshielded Cable Clamps Shielded Cable Clamps and Shielding Hardware and Enclosure Kits

Mounting and Mating Hardware

One-Piece, All-Plastic Cable Clamp, 180°/120° Exit (Quik-Snap) (pg. 133)

Unshielded Cable Clamps Straight/90° Exit (pg. 132)

Slide-On Back Cover (pg. 136) Straight Exit RFI/EMI Shields for Jacketed Cable (pg. 142)

90° Exit Die Cast RFI/EMI Shields for Jacketed Cable (pg. 142)

Basic Shielding Hardware Kits (pgs. 116, 117)

Shielding Hardware Enclosure Kits (pgs. 118, 119) Male Screw Retainers (pgs. 146, 147) Female Screwlocks

(pg. 148) Locking Posts and Slide Latches (pgs. 149, 151)

Spring Latches, (pg. 152)

Latching Blocks, (pgs. 153, 154) Keying Plug (pg. 155)

Section Contents

All-Plastic Plug and Receptacle Connectors 112, 113
Metal-Shell Plug and Receptacle Connectors 114, 115
Basic Shielding Hardware Kits
Shielding Hardware Enclosure Kits
Ferrules for Shielding Hardware Kits
Interchangeable Contacts, Crimp Snap-In
Application Tooling

Catalog 82068 Revised 4-12

Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in inches and millimeters unless otherwise specified. USA: +1 (800) 522-6752 Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999



HDE-20 All-Plastic IDC Connectors

Plug



Plug

Material and Finish:

Housing-94V-0 rated thermoplastic, black

Contacts—Phosphor bronze

Cable Connectors

Contact Finish—Duplex plated: A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated **B**—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Related Product Data:

Contact Arrangements—page 40 Performance Characteristicspage 41

Interchangeable Crimp Snap-In Contacts—page 121

Application Tooling—pages 121-123 Mateable Connectors:

HDP-pages 90-97 HD-20 Board Mount—pages 54-71, 78-85, 87-89

Mating/Panel Mounting-page 42 Cable Clamps-pages 132, 133, 135-137, 139, 140, 144, 145

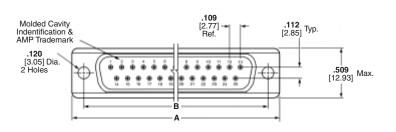
Mating Hardware—pages 146-150, 153.155

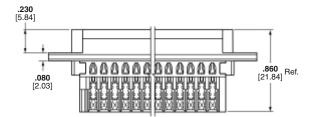
Technical Documents:

Product Specification—108-40011
Application Specifications—
114-40002
114-40003

Instruction Sheet—408-6621

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.





					Connector Pa	r Part Numbers		
Shell Size	No. of Contact Positions	Dimensions A B		Contact Finish (Plating Code)	Contact Identification No. 1 for 30-26 AWG [0.05-0.15mm ²] Wire Plug	Contact Identification No. 2 for 26-22 AWG [0.15-0.4mm ²] Wire Plug		
	2	1.213	.984	Α	_	745203-2		
1 9	30.81	24.99	В	_	1-745203-1			
0	15	1.541	1.312	A	_	745207-7		
2	15	15	15	39.14	33.33	В	_	_
0	0.5 2	2.090	1.852 47.04	А	745211-9	745211-7		
3	25	53.09		В	_	745211-8		
4	07	2.732	2.500	А	—	745215-7		
	37	69.39	63.50	В	_	_		

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].

HDE connectors are designed for terminating solid or stranded (7-strand max.) wire.
 Individual conductor strands should be larger than .005 inch [0.127] diameter.

Extraction Tool Part No. 91232-1 (Instruction Sheet 408-6631) is used to remove pin or socket contacts. 4.

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China: +86 (0) 400-820-6015

For terminating more than one wire, or a drain wire, use crimp contacts on page 121. 5.

Note: All part numbers are RoHS compliant.

specified.

Dimensions are shown for

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to change.

Dimensions are in inches and

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Catalog 82068 Revised 4-12

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HDE-20 All-Plastic IDC Connectors (Continued)

Receptacle



Receptacle

Material and Finish:

Housing-94V-0 rated thermoplastic, black

Contacts—Phosphor bronze

Contact Finish—Duplex plated: A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated **B**—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Related Product Data:

Contact Arrangements—page 40 Performance Characteristicspage 41 Interchangeable Crimp Snap-In

Contacts—page 121 Application Tooling—pages 121-123

Mateable Connectors: HDP-pages 90-97 HD-20 Board Mount—pages 54-71, 78-85, 87-89

Mating/Panel Mounting—page 42 Cable Clamps-pages 132, 133, 135-137, 139, 140, 144, 145

Mating Hardware—pages 146-150, 153, 155

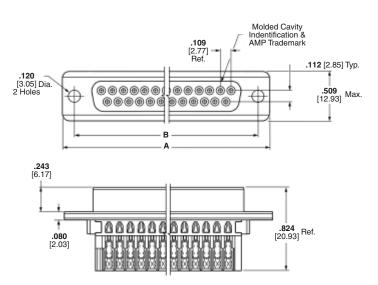
Technical Documents:

Product Specification—108-40011
Application Specifications—

114-40002 114-40003

Instruction Sheet—408-6621

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.



Shell	No. of				Connector Part Numbers Contact Identification	
Size	Contact Positions	Α	В	Finish (Plating Code)	No. 2 for 26-22 AWG [0.15-0.4mm²] Wire	
					Receptacle	
	0	1.213	.984	А	745201-7	
I	9	30.81	24.99	В	745201-9	
2	15	1.541 39.14	1.312 33.33	А	745205-7	
	05	2.090	1.852	А	745209-7	
3	25	53.09	47.04	В	745209-8	

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. HDE connectors are designed for terminating solid or stranded (7-strand max.) wire.

3. Individual conductor strands should be larger than .005 inch [0.127] diameter.

4. Extraction Tool Part No. 91232-1 (Instruction Sheet 408-6631) is used to remove pin or socket contacts.

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5. For terminating more than one wire, or a drain wire, use crimp contacts on page 121.

Note: All part numbers are RoHS compliant.

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Dimensions are in inches and

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HDE-20 Metal-Shell IDC Connectors

Plug



Material and Finish:

Cable Connectors

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 on termination end, with entire contact nickel underplated **B**—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Related Product Data:

Contact Arrangements—page 40 Performance Characteristicspage 41 Interchangeable Crimp Snap-In Contacts—page 121

Application Tooling—pages 121-123

Mateable Connectors: HDP-pages 90-97

HD-20 Board Mount—pages 54-71, 78-85, 87-89

Mating/Panel Mounting-page 42 Cable Clamps—pages 132, 133, 135-137, 138, 140, 144, 145

Mating Hardware—pages 146-150, 153.155

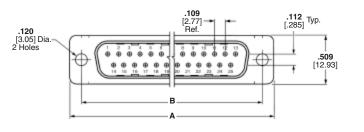
Technical Documents:

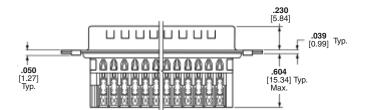
Product Specification—108-40011

Application Specifications— 114-40002

114-40003

Instruction Sheet-408-6645 Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.





					Co	onnector Part Numbe	ers
Shell No. of Size Positions		Dimensions A B		Contact Finish (Plating Code)	Contact Identification No. 1 for 30-26 AWG [0.05-0.15mm ²] Wire	<u> </u>	Contact Identification No. 3 for 22-20 AWG [0.4-0.6mm ²] Wire
					Plug	Plug	Plug
4	9	1.213	.984	А	1-745492-7	1-745492-8	1-745492-9
I	1 9	30.81	1 24.99	В		2-745492-0	—
2	15	1.541		А	1-745494-7	1-745494-5	_
2	15	39.14		В		1-745494-6	_
3	25	2.088	1.852	А	1-745496-9	1-745496-7	2-745496-0
3	25	53.04	47.04	В	—	1-745496-8	_
4	37	2.729	2.500	А	1-745498-6	1-745498-5	—
4	37	69.32	63.50	В	_	1-745498-7	_

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 TE.

HDE connectors are designed for terminating solid or stranded (7-strand max.) wire.
 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.

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6. For terminating more than one wire, or a drain wire, use crimp contacts on page 121.

Note: All part numbers are RoHS compliant.

specified.

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HDE-20 Metal-Shell IDC Connectors (Continued)

Receptacle



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 on termination end, with entire contact nickel underplated **B**—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Related Product Data:

Contact Arrangements—page 40 Performance Characteristics-

page 41

Interchangeable Crimp Snap-In Contacts—page 121

Application Tooling—pages 121-123

Mateable Connectors: HDP-pages 90-97

HD-20 Board Mount-pages 54-71, 78-85, 87-89

Mating/Panel Mounting-page 42 Cable Clamps-pages 132, 133, 135-137, 139, 140, 144, 145

Mating Hardware—pages 146-150, 153.155

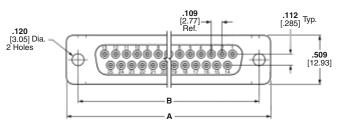
Technical Documents:

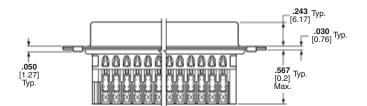
Product Specification—108-40011 Application Specifications—

114-40002 114-40003

Instruction Sheet-408-6645

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.





					Connector Part Numbers				
Shell Size	No. of Contact Positions	Dime A	nsions B	Contact Finish (Plating Code)	Contact Identification No. 1 for 30-26 AWG [0.05-0.15mm ²] Wire	Contact Identification No. 2 for 26-22 AWG [0.15-0.4mm ²] Wire	Contact Identification No. 3 for 22-20 AWG [0.4-0.6mm ²] Wire		
					Receptacle	Receptacle	Receptacle		
	9	1.213	.984	А	1-745491-6	1-745491-7	1-745491-9		
-	9	30.81	0.81 24.99	В	—	1-745491-8	—		
2	15	1.541	1.312	Α	1-745493-6	1-745493-4	—		
2	15	39.14	4 33.33	В	_	1-745493-5	—		
3*	25	2.088	1.852	А	1-745495-7	1-745495-8	1-745495-9		
3	3 20	53.04	47.04	В	_	2-745495-0	—		
4	27	2.729	2.500	А	1-745497-6	1-745497-5	_		
4	4 37	69.32	.32 63.50	В	—	1-745497-7	—		

* RS-232, size 3 connector, for 26-22 [0.15-0.4mm²] AWG wire select loaded circuits 1-8,15,17, 20 and 22, Plug Part No. 747740-1, Receptacle Part No. 747741-1, gold flash contacts.

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].

- Connectors can be made available with clinch nuts, contact TE. 2.
- 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.

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6. For terminating more than one wire, or a drain wire, use crimp contacts on page 121.

Note: All part numbers are RoHS compliant.

specified.

Dimensions are in inches and

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Dimensions are shown for

reference purposes only.

Specifications subject

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Cable Connectors

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China: +86 (0) 400-820-6015



HDE-20 Basic Shielding Hardware Kits



Each kit contains:

- Connector
- Inner shield
- Outer shield

Cable Connectors

Ferrules must be purchased separately.

Material and Finish:

Connector Shell—Steel, tin plated Connector Insert—94V-0 rated thermoplastic, black

Shield—Steel, tin plated

Contacts—Phosphor bronze

Contact Finish—Duplex plated: A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

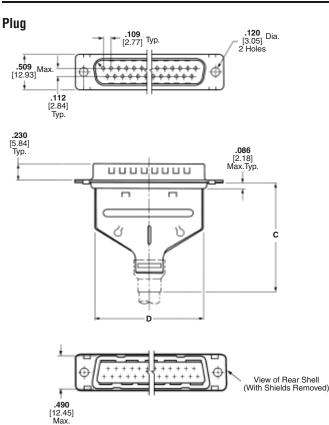
Related Product Data:

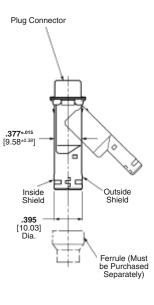
Contact Arrangements—page 40 **Performance Characteristics** page 41

Application Tooling—pages 121-123 Mateable Connectors: HDP—pages 90-97 HD-20 Board Mount—pages 54-71, 78-85, 87-89

Mating Hardware—pages 146-150, 153, 155

Mating/Panel Mounting-page 42





Technical Documents:

Product Specifications— 108-40011

108-40030 **Application Specifications**— 114-40002 114-40003 114-40006 **Instruction Sheet**—408-9010

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111.**

		No. of Dimensions Contact C D			Max. Inner Cable Bundle Dia.†	Contact Finish (Plating Code)	Cor	Connector Part Numbers			
Shell Size	Contact			Recommended Cable Outer			Contact I.D. No. 1 for 30-26 AWG	Contact I.D. No. 2 for 26-22 AWG [0.15-0.4mm ²] Wire	Contact I.D. No. 3 for 22-20 AWG		
Pos.		°,	0 0	Dia. Range			[0.05-0.15mm ²] Wire		[0.4-0.6mm ²] Wire		
							Plug	Plug	Plug		
1	9	1.520 38.61	.678 17.22	.165455 4.19-11.56	.350 8.89	А	_	747515-7	_		
		1.520	1.002	.165455	.350	А	747531-7	747531-8	_		
2	15	38.61	25.45	4.19-11.56	8.89	В	_	747531-9	_		
	05	1.520	1.550	.165455	.350	А	747547-8	747547-9	_		
3	25	38.61	39.37	4.19-11.56	8.89	В	_	1-747547-0			
4	07	1.867	2.205	.338562	.450	А	_	_	_		
4	4 37	47.42	56.01	8.59-14.28	11.43	В	_	1-747563-0			

Note: Components of the kits are shipped unassembled and bulk-packaged in quantities of 100 pieces. †Maximum cable diameter after jacket and braid removed.

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n for Dimensions are in inches and

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millimeters unless otherwise

Note: All part numbers are RoHS compliant.

specified.

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HDE-20 Basic Shielding Hardware Kits (Continued)



Each kit contains:

- Connector
- Inner shield
- Outer shield

Ferrules must be purchased separately.

Material and Finish:

Connector Shell-Steel, tin plated Connector Insert-94V-0 rated thermoplastic, black

Shield-Steel, tin plated

Contacts—Phosphor bronze Contact Finish—Duplex plated: A-.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated B-Gold flash on mating end, tin on termination end, with entire contact nickel underplated

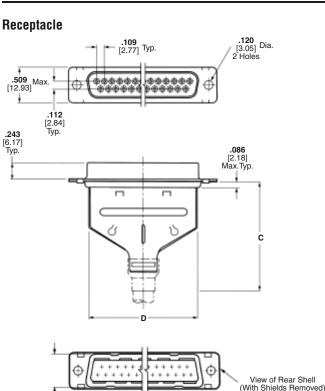
Related Product Data:

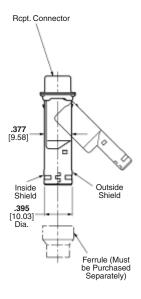
Contact Arrangements—page 40 Performance Characteristicspage 41

Application Tooling—pages 121-123 **Mateable Connectors:** HDP-pages 90-97 HD-20 Board Mount-pages 54-71, 78-85, 87-89

Mating Hardware—pages 146-150, 153, 155

Mating/Panel Mounting—page 42







Product Specifications—

.490 [12.45] Max.

108-40011 108-40030

Application Specifications-114-40002 114-40003 114-40006

Instruction Sheet—408-9010

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.

						Connector Part Numbers			
No. of Contact Pos.	Dimer C	nsions D	Recommended Cable Outer Dia. Range	Max. Inner Cable Bundle Dia.†	Contact Finish (Plating Code)	Contact I.D. No. 1 for 30-26 AWG [0.05-0.15mm ²] Wire	Contact I.D. No. 2 for 26-22 AWG [0.15-0.4mm ²] Wire	Contact I.D. No. 3 for 22-20 AWG [0.4-0.6mm ²] Wire	
						Receptacle	Receptacle	Receptacle	
1 0	1.520	.678	.165455 4.19-11.56	.350	А	—	747516-7	747516-8	
9	38.61	17.22		8.89	В	—	747516-9	_	
45	1.520	1.002	.165455	.350	А	—	747532-7	—	
15	38.61	25.45	4.19-11.56	8.89	В	—	747532-8	_	
05	1.520	1.550	.165455	.350	A	—	747548-8	_	
25	38.61	l 39.37 4.19-11.56 8.89 [–]	В	—	747548-9	_			
37	1.867 47.42	2.205 56.01	.338562 8.59-14.28	.450 11.43	В	747564-8	747564-9	_	
	9 15 25	Contact Pos. Difference 9 1.520 38.61 15 38.61 25 1.520 38.61 27 1.867	Dimensions Dimensions Contact Pos. Dimensions 9 1.520 .678 38.61 17.22 15 1.520 1.002 38.61 25.45 25 1.520 1.550 38.61 39.37 27 1.867 2.205	No. of Contact Pos. Dimensions C Cable Outer Dia. Range 9 1.520 .678 .165455 38.61 17.22 4.19-11.56 15 1.520 1.002 .165455 25 1.520 1.002 .165455 38.61 25.45 4.19-11.56 25 1.520 1.550 .165455 38.61 39.37 4.19-11.56 27 1.867 2.205 .338562	No. of Contact Pos. Dimensions C Cable Duer Dia. Range Inner Cable Bundle Dia. Range 9 1.520 .678 .165455 .350 9 38.61 17.22 4.19-11.56 8.89 15 1.520 1.002 .165455 .350 25 1.520 1.002 .165455 .350 25 1.520 1.002 .165455 .350 38.61 25.45 4.19-11.56 8.89 25 1.520 1.350 .165455 .350 38.61 39.37 4.19-11.56 8.89 27 1.867 2.205 .338562 .450	No. of Contact Pos. Dimensions C Cable D Inner Outer Dia. Bundle Dia.† Contact Finish (Plating Code) 9 1.520 .678 .165455 .350 A 9 38.61 17.22 4.19-11.56 8.89 B 15 1.520 1.002 .165455 .350 A 25 1.520 1.002 .165455 .350 A 25 1.520 1.550 .165455 .350 A 27 1.867 2.205 .338562 .450 B	No. of Contact Pos. Dimensions C Recommended Date Dia. Max. Inner Bandle Dia.† Contact Finish Bundle Dia.† Contact I.D. No. 1 for 30-26 AWG [0.05-0.15mm²] Wire 9 1.520 .678 .165-455 .350 A 9 1.520 1.722 4.19-11.56 8.89 B 15 1.520 1.002 .165-455 .350 A 25 1.520 1.550 .165-455 .350 A 25 1.520 1.520 .165-455 .350 A 25 1.520 1.550 .165-455 .350 A 25 1.520 1.550 .165-455 .350 A 27 1.867 2.205 .338-562 .450 B	No. of Contact Pos. Dimensions C Recommended Outer Dia. Bange Max. Inner Cable Dia. Bundt Dia. + Contact Finish (Plating Code) Contact for 30-26 AWG [0.5-0.15mm²] Contact I.D. No. 1 for 30-26 AWG [0.5-0.15mm²] Contact I.D. No. 2 for 26-22 AWG [0.5-0.15mm²] 9 1.520 .678 38.61 .165455 4.19-11.56 .350 8.89 A — 747516-7 15 1.520 1.002 38.61 .165455 4.19-11.56 .350 8.89 A — 747516-9 15 1.520 1.002 38.61 .165455 4.19-11.56 .350 8.89 A — 747532-7 15 1.520 1.02 38.61 .165455 39.37 .350 4.19-11.56 A — 747532-8 25 1.520 .165455 39.37 .350 4.19-11.56 A — 747548-8 25 1.520 1.550 38.61 .165455 39.37 .350 4.19-11.56 A — 747548-9 27 1.867 2.205 .338562 .450 B — 747564.9	

Note: Components of the kits are shipped unassembled and bulk-packaged in quantities of 100 pieces. †Maximum cable diameter after jacket and braid removed.

Note: All part numbers are RoHS compliant.

Dimensions are in inches and Dimensions are shown for millimeters unless otherwise reference purposes only. Specifications subject specified. to change.

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Catalog 82068 Revised 4-12



Plug

HDE-20 Shielding Hardware Enclosure Kits



Each kit contains:

- Connector
- Inner shield
- Outer shield
- Enclosure
- Two jackscrews Ferrules must be purchased separately.
- Material and Finish:

Connector Shell—Steel, tin plated Connector Insert-94V-0 rated thermoplastic, black Shield-Steel, tin plated

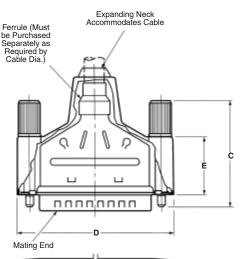
Enclosure—PVC, black

Jackscrews—Zinc alloy Contacts—Phosphor bronze

Contact Finish—Duplex plated: A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated **B**—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

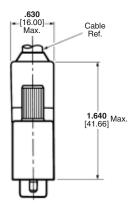
Related Product Data:

Contact Arrangements—page 40
Performance Characteristics— page 41
Application Tooling—pages 121-123
Mateable Connectors: HDP—pages 90-97 HD-20 Board Mount—pages 54-71,
78-85, 87-89
Mating Hardware —pages 146-150, 153, 155
Mating/Panel Mounting—page 42



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Technical Documents:

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Product Specifications— 108-40011
108-40030
Application Specifications— 114-40002
114-40003
114-40006 114-40008
Instruction Sheet—408-9172
Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.

									Kit Part Numbers	6	Shieldi	ng								
Shell	No. of Contact		mensio		Recommended Cable - Outer	Max. Inner Cable	Contact Finish	Contact I.D. No. 1	Contact I.D. No. 2	Contact I.D. No. 3	Enclos Expans Tool	ion								
Size	Pos.	С	D	Е	Dia. Range	Bundle Dia.†	(Plating Code)	for 30-26 AWG [0.05-0.15mm ²]	for 26-22 AWG [0.15-0.4mm ²]	for 22-20 AWG [0.4-0.6mm ²]	Cable	Part								
							Plug	Plug	Plug	O.D. (Max.)	No.									
	9	1.640	1.355	.630	.190330	.330	А	_	1-747944-5	_										
I	9	41.66	34.42	16.00	4.83-8.38	8.38	В	_	1-747944-6	_	.330	58241-4								
2	45	1.640	1.685	.630	.190330	.330	А	—	1-747946-5	_	8.38	50241-4								
2	15	41.66	42.80	16.00	4.83-8.38	1.83-8.38 8.38	8.38	8.38	8.38	8.38	8.38	8.38	8.38	8.38	В	—	1-747946-6	_		
3	25	1.640	2.210	.630	.217435	.350	Α	1-747948-5	1-747948-6	—	.450	50041 1								
3	25	41.66	56.13	16.00	5.51-11.05	8.89	В	—	1-747948-8	1-747948-9	11.43	58241-1								
4	07	2.010	2.865	.730	.338562	.450	А	1-747950-4	1-747950-5	_	.572	58241-2								
4	37	51.05	72.77	18.54	8.59-14.28	11.43	В	_	1-747950-6	_	14.52	30241-2								

†Maximum cable diameter after jacket and braid removed.

Dimensions are shown for

Note: All part numbers are RoHS compliant.

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reference purposes only. Specifications subject to change.

Dimensions are in inches and millimeters unless otherwise specified. USA: +1 (800) 522-6752

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UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015



Receptacle

HDE-20 Shielding Hardware Enclosure Kits (Continued)



Each kit contains:

- Connector
- Inner shield
- Outer shield
- Enclosure
- Two jackscrews
- Ferrules must be purchased separately.

Material and Finish:

Connector Shell-Steel, tin plated Connector Insert-94V-0 rated thermoplastic, black

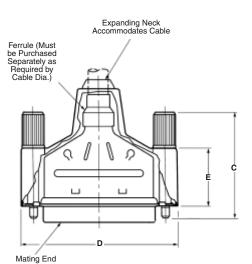
Shield-Steel, tin plated Enclosure—PVC, black Jackscrews—Zinc alloy

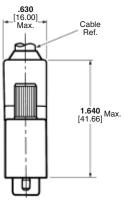
Contacts—Phosphor bronze

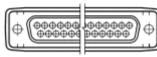
Contact Finish—Duplex plated: A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated **B**—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

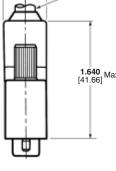
Related Product Data:

Contact Arrangements—page 40 Performance Characteristicspage 41 Application Tooling—pages 121-123 **Mateable Connectors:** HDP-pages 90-97 HD-20 Board Mount-pages 54-71, 78-85, 87-89 Mating Hardware—pages 146-150, 153, 155 Mating/Panel Mounting-page 42









Technical Documents:

Product Specifications-108-40011 108-40030

Application Specifications-

114-40002 114-40003 114-40006 114-40008 Instruction Sheet—408-9172 Note: Instruction Sheets for TE Tooling are packaged with the tooling. For

additional information call the Tooling Assistance Center: 1-800-722-1111.

	Shell No. of							Kit Part	Numbers	Shielding	
Shell			imensio	ns	Recommended Cable Outer	Max. Inner Cable	Contact Finish	Contact I.D. No. 1	Contact I.D. No. 2	Enclosure Expansion	
Size	Pos.	С	C D E Dia. Bundle (Plating Range Dia.† Code)		for 30-26 AWG [0.05-0.15mm ²]			Part			
			Hange Dia.		Receptacle	Receptacle	O.D. (Max.)	No.			
	0	1.640	1.355	.630	.190330	.330	А	1-747943-5	1-747943-6		
I	9	41.66	34.42	16.00	4.83-8.38	8.38	В	_	1-747943-7	.330	58241-4
0	45	1.640	1.685	.630	.190330	.330	А	1-747945-5	_	8.38	50241-4
2	15	41.66	42.80	16.00	4.83-8.38	8.38	В	_	_		
•	05	1.640	2.210	.630	.217435	.350	А	1-747947-5	1-747947-6	.450	50044.4
3	25	41.66	56.13	16.00	0 5.51-11.05 8.89		В	_	1-747947-7	11.43	58241-1
4	07	2.010	2.865	.730	.338562	.450	А	_	_	.572	50044.0
4	37	51.05	72.77	18.54	8.59-14.28	11.43	В	_	_	14.52	58241-2

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Germany: +49 (0) 6251-133-1999

†Maximum cable diameter after jacket and braid removed.

Dimensions are shown for

reference purposes only.

Note: All part numbers are RoHS compliant.

specified.

Dimensions are in inches and

millimeters unless otherwise

USA: +1 (800) 522-6752

Catalog 82068 Revised 4-12

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Specifications subject to change.



HDE-20 Crimp Snap-In Contact Connectors

Ferrules for Shielding Hardware Kits



Stepped



Straight

Material and Finish:

Cable Connectors

Steel (annealed), tin plated

Related Product Data: Shielding Hardware and

Enclosure Kits—pages 116-119

Technical Documents:

Instruction Sheets— 408-9242 408-9243 408-9507 408-9508

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111**.

Application Tooling for Shielding Hardware Kits



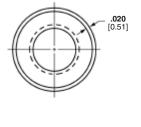
Hand Crimping Tool No. 543344-1 (Requires Die Sets, see table above.)

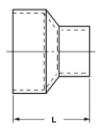
120

Catalog 82068 Revised 4-12

Revised 4-12 reference purposes only. Specifications subject to change.

Dimensions are shown for





Shell		1	Cable	Part Nu	mbers
Sizes	Style	Dim.	Diameter	Ferrule	Die Sets*
1-3	Stepped	.440 11.18	.165190 4.19-4.83	3-747579-0	543424-3
1-3	Stepped	.440 11.18	.190217 4.83-5.51	3-747579-0	543424-2
1-3	Stepped	.440 11.18	.217246 5.51-6.25	3-747579-0	543424-8
1-3	Stepped	.440 11.18	.246284 6.25-7.21	3-747579-2	543424-1
1-3	Stepped	.440 11.18	.284324 7.21-8.23	3-747579-2	543424-7
1-3	Stepped	.440 11.18	.324375 8.23-9.53	3-747579-4	543424-6
1-3	Straight	.440 11.18	.375435 9.53-11.05	2-747579-7	543424-5
1-3	Straight	.440 11.18	.400455 10.16-11.56	3-747579-6	543424-4
4	Stepped	.625 15.88	.230265 5.84-6.73	2-747580-4	543425-2
4	Stepped	.625 15.88	.338385 8.59-9.78	2-747580-3	543425-1
4	Stepped	.625 15.88	.375-432 9.53-10.97	2-747580-1	58238-1
4	Stepped	.625 15.88	.422490 10.72-12.45	3-747580-1	58237-2
4	Straight	.625 15.88	.480562 12.19-14.28	2-747580-2	58237-1

*Die sets used with Hand Crimping Tool Part No. 543344-1 or Pneumatic Bench Tool Part No. 312522-3 equipped with Die Set Holder Part No. 58449-1.



Shielding Enclosure Expansion Tools Part No. 58241-1 (.450 [11.43])† 58241-2 (.572 [14.53])† 58241-4 (.330 [8.38])† †Maximum Cable Diameter (Instruction Sheet—408-9507)

Note: All part numbers are RoHS compliant.

Dimensions are in inches and millimeters unless otherwise specified. USA: +1 (800) 522-6752 Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999

Pneumatic Bench Tool No. 312522-3 (Requires Die Set Holder No. 58449-1.)

> UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015



Interchangeable

Crimp Snap-In

Contacts.

HDE-20 Contacts, Precision Formed

Material and Finish:

Phosphor bronze, duplex plated as follows:

A—Duplex plated .000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Related Product Data:

Performance Characteristics page 41

Connectors used with: HDF____nages 112-119

HDE—pages 112-119

Technical Documents:

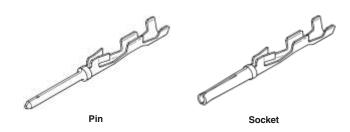
Product Specifications— 108-40011 108-40030

Application Specifications—

114-40002 114-40003 114-40006 114-40008

Instruction Sheet-408-6738

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: **1-800-722-1111**.



Wire Size Range AWG mm ²		Insulation Diameter		Contact Finish	Contact Part Numbers		
	Code*	Single Wire	Two Wire	(Plating Code)	Pin Strip Form	Socket Strip Form	
26-22	4	4	.054 .039	.039	А	_	1-745269-1
0.15-0.4	4	1.37	0.99	В	1-745266-0	1-745269-0	
22-18	3	22-18	.075	.054	А	1-745267-0	1-745270-1
0.4-0.8		1.91	1.91 1.37	В	_	1-745270-0	

* A Code indicating accepted wire size range is stamped inside insulation crimp barrel of each contact.

Notes: 1. Extraction Tool No. 91232-1 is used to remove pin and socket contacts.

2. Strip form contacts shipped 10,000 pieces/reel.

Note: All part numbers are RoHS compliant.

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Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in inches and millimeters unless otherwise specified. USA: +1 (800) 522-6752 Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999 121

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HDE-20 Application Tooling

Hand Tools with Modular Heads

Technical Documents:

Instruction Sheets 408-6790 408-9414 408-6789

Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Hotline: **1-800-722-1111.** A modular interchangeable head provides versatility to these tools. Along with the head used to terminate Subminiature D connectors, heads are available to terminate other TE product lines.

The head used to terminate the Subminiature D, HDE connectors can be used with a manual pistol grip tool, an air pistol grip tool and a bench mount power assembly. These tools terminate one unstripped wire per cycle and index the connector to the next terminating position. The head rotates to permit optimum access to the wiring area.

Manual Pistol Grip Tool



Handle and Head Tool Assembly No. 608868-1 Handle No. 58074-1 Head Assembly No. 58063-2

This tool is manually actuated, using modular heads.

Air Pistol Grip Tool



Handle No. 58075-1 Head Assembly No. 58063-2 Air actuated, utilizing modular heads.

Bench Mounted Tools with Modular Heads Bench Mount Pneumatic Power Assembly



Bench Assembly No. 58338-1 Head Assembly No. 58063-2

This tool is air actuated with either a foot or knee switch.

Dimensions are shown for

reference purposes only. Specifications subject

to change.

Bench Mount Electric Power Assembly



Head Assembly No. 58063-2 This tool electrically powered and actuated by a foot switch.

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HDE-20 Application Tooling (Continued)

Product Facts

- Low applied costs
- Automatic termination of jacketed cable
- Automatic continuity check and shorts test
- Single- or double-ended assemblies
- Microprocessor controlled with touch input screen
- Stored program capability
- Selective termination of connector positions
- Rapid tooling changeover for different connector types
- Handles a variety of TE insulation-displacement connectors
- Terminates both multicolor and single-color wires
- Remote programming capability
- Straight or right-angle wire dress
- **Control Module** 852423-1 120 VAC

Technical Documents:

Instruction Sheets 408-7777 Manual Arbor Tool Note: Instruction Sheets for TE Tooling are packaged with the tooling. For additional information call the Tooling Assistance Center: 1-800-722-1111.





Control Module No. 852423-1

CHAMPOMATOR 2.5 Machine No. 354786-4



Arbor Tool No. 91085-2 Applicators: Wire O.D. .041-.060 [1.04-1.52]-No. 543157-1 (tool mount), 543426-1 (termination tool) Wire O.D. .040 [1.02] and smaller-No. 543157-1 (tool mount), 543426-2 (termination tool)

Note: All part numbers are RoHS compliant.

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CHAMPOMATOR 3A Terminating Machine

This machine is the high-productivity way to terminate multiconductor, jacketed cable with a variety of TE connectors having insulation displacement contacts. It automatically sorts the wires, and terminates them in a programmed sequence. The sequence may use all or some of the connector contacts, 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 monitoring and diagnostics can also be accessed through the touch

Contact TE for the tooling required for your specific applications.

CHAMPOMATOR 2.5 Terminating Machine

This is a compact, semiautomatic bench machine. It is microprocessor controlled, and programmed using a membrane switch keyboard. The potential machine rate is one pair of wires per second. Contact TE for the tooling required for your specific applications.

The CHAMPOMATOR Model 2.5 Bench Terminating Machine-Part No. 354786-4 is used in conjunction with Control Module-Part No. 852423-1.

Contact TE for application specific requirements.

Manual Arbor Tool

The arbor tool with applicator is used to terminate jacketed cable. Wires are neatly routed and trimmed to length with the cable jacket close to the connector. 400 to 800 terminated wires per hour are typical.

UK: +44 (0) 800-267666

China: +86 (0) 400-820-6015

France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999



Subminiature D Connectors HDF-20 for Flat Ribbon Cable

Product Facts

- Available in all 5 standard shell sizes
- Visual inspection of termination possible
- Fluted cover provides positive alignment of cable prior to termination
- Wide range of application tooling
- Patented insulation displacement contact latches into the connector cover
- Contact design provides a "gas-tight" termination

Cable Connectors

- 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] centers
- Qualified to Battelle Level III environment
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR 7189
- Listed and complies with UL 1863, Communication Circuit Accessories File No. E81956

Plug — Low Profile Metal Shell



Receptacle — Low Profile Metal Shell



		Plug Pa	art Nos.	Receptacle Part Nos.		
No. of Pos. & (Shell Size)	Cable Stabilizer Part No.	With Standard Mounting Holes	With 4-40 Threaded Inserts	With Standard Mounting Holes	With 4-40 Threaded Inserts	
9 (1)	747275-4	1658613-4	1658608-4	1658612-4	1658610-4	
15 (2)	747275-3	1658613-3	1658608-3	1658612-3	1658610-3	
25 (3)	747275-2	1658613-2	1658608-2	1658612-2	1658610-2	
37 (4)	747275-1	1658613-1	1658608-1	1658612-1	1658610-1	
50 (5)	746785-1	_	1658607-1	_	1658606-1	

Note: All assemblies are supplied with housing and cover pre-assembled. Optional cable stabilizer must be ordered separately.

Material

Front Shell—Steel, tin or tin plated Housing, Cover & Cable Stabilizer— Thermoplastic, 94V-0, black

Threaded Inserts—Brass, unplated Contacts—Phosphor bronze, duplex

plated .000030 [0.00076] min. gold on mating end, .000100-.000200 [0.00254-0.00508] bright tin on termination end with entire contact underplated .000050 [0.00127] min. nickel

Related Product Data

Contact Arrangement—page 40 Performance Characteristics page 41

Mateable Receptacles: HDF-20 Metal-Shell—page 124 HDE—pages 110-121 (Sizes 1–4 only) HDP—pages 90-109 HD-20 Board Mount—pages 54-71, 78-85, 87-89 Mating/Panel Mounting—page 126

Ribbon Cable—page 125 Accessories: Commoning Strip—page 146 Mating Hardware—pages 146-150, 153 & 154

Application Tooling—page 127

Technical Documents

Product Specification—108-40012

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Dimensions are shown for

Dimensions are in inches and millimeters unless otherwise specified. USA: +1 (800) 522-6752

Note: All part numbers are RoHS compliant.

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Plug Assemblies

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

Material and Finish

Housing, Cover & Cable Stabilizer—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 on termination end, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Contact Arrangement—page 40 **Performance Characteristics** page 41

Mateable Receptacles: HDF-20 All-Plastic—page 124 HD-20 Board Mount—pages 54-71,

78-85, 87-89 HDE All-Plastic—pages 147, 148

Mating/Panel Mounting—page 126 Ribbon Cable—page 125

Accessories: Mating Hardware—pages 146-150, 153, 155

Application Tooling—page 127

Technical Documents

Product Specifications— 108-40012 HDF-20 Low Profile Connectors



Housing and Covers are Preassembled; Cable Stabilizer is Separate.

Receptacle Assemblies



Housing and Covers are Preassembled; Cable Stabilizer is Separate.

No. of	Optional	Plug Assem	bly Part No.	Receptacle Assembly Part No.		
Contact Pos. & (Shell Size)	Cable Stabilizer Part No.	With Standard Mounting Holes	With Threaded Inserts	With Standard Mounting Holes	With Threaded Inserts	
9 (1)	747275-4	1658615-4	1658611-4	1658614-4	1658609-4	
15 (2)	747275-3	1658615-3	1658611-3	1658614-3	1658609-3	
25 (3)	747275-2	1658615-2	1658611-2	1658614-2	1658609-2	
37 (4)	747275-1	1658615-1	—	1658614-1	1658609-1	

Note: All assemblies are supplied with housing and cover pre-assembled. Optional cable stabilizer must be ordered separately.

Ribbon Cable Parameters

	28 AWG [0.08	mm ²] Part No.	26 AWG [0.15mm ²] Part No.
No. of Conductors	Length	Per Reel	Length Per Reel
conductors	100 Ft. [30.5m]	500 Ft. [152.4m]	500 Ft. [152.4m]
9	1-57040-2	1-971111-2	57034-2
15	1-57040-5	1-971111-5	57034-5
25	57040-2	971111-2	57034-9
37	1-57040-8	1-971111-8	1-57034-3
50	57040-6	971111-6	1-57034-5

Note: All part numbers are RoHS compliant.

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Cable Connectors

UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015 125



Е

HDF-20 Plugs/Receptacles Mating and Panel Mounting Specifications

С

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Cutout for Rear Mount

and Short Latching Blocks

D

.040 [1.02] Dia. (Typ.)

(2 Holes)

.129±

3.28^{± 0.05}1

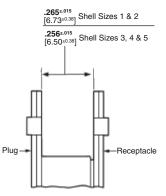
+

K Radius

(4 Places) в

Plug/Receptacle Mating

Panel Cutouts



The .265/.256 [6.73/6.50] dimensions are required to assure full mating of connector halves. These dimensions must be taken into consideration when determining the method of mounting, panel thickness, etc.

Panel Mounting

Plugs and receptacles can be mounted to a panel from either the front or rear, using a variety of accessory hardware. Typical examples are shown below.



Typical Front-Panel Mounted HDF-20 Plug



(37)

5

(50)

Rear

Front

Rear

Mounting Method Shell Dimensions Size Front/Rear H* J* (Pos.) Α R С D Е F Panel .984 .492 .874 .437 .513 .257 Front 24.99 12.50 22.20 11.10 13.03 6.53 1 (9) **.984** 24.99 .492 12.50 **.806** 20.47 **.403** 10.24 .550 13.97 .449 .225 .750 Rear 19.05 11.41 5.72 1.312 .656 1.202 .601 .513 .257 Front _ _ 33.33 16.66 30.53 15.27 13.03 6.53 2 (15) 1.312 656 1.134 750 .567 .449 .225 .730 Rear 18.54 14.40 11.41 19.05 16.66 28.80 5.72 33.33 1.852 **.926** 23.52 1.743 **.872** 22.15 **.513** 13.03 .257 Front 47.04 44 27 6 53 3 (25) 1.852 926 1.674 .842 .449 .225 **1.275** 32.39 750 Rear 21.39 11.41 19.05 23.52 42.52 5.72 47.04 2.500 1.250 2.391 1.196 .513 .257 Front 13.03 63.50 31.75 60.73 30.38 6.53 4

*Panel cutout configuration with H and J dimensions provides clearance for mounting connectors with cable clamps.

2.326

59.08

2.297

58.34

2.218

56.34

Typical Rear-Panel Mounted HDF-20 Plug

126

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2,500

63.50

2.406

61.11

2.406

61.11

1.250

31.75

1.203

30.56

1.203

30.56

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1.163

29.54

1.149

29.19

1.109

28.17

.449 11.41

.623

.555

14.10

15.82

.225

5.72

.312

7.93

.278

7.06

1.920

46.05

1.753

44.52

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κ

.083

2.11

.132

.083

2.11

.132

3.35

.083

2.11

.132 3.35

.083

2.11

.132

3.35

.083

2.11

.132

3.35

.750

.750

19.05

16.13

3.35

10° ± 2°

(2 Places)

.120^{± .002} [3.05^{± 0.05}] (2 Places)

Cable Connectors



HDF-20 Application Tooling

Application Tooling



Hand Tool Kit No. 768340-1

Consists of a hand tool frame, a universal base assembly, a bench mount kit, and connector-specific tooling for AMP-LATCH Standard and Novo Receptacles, Card-Edge Connectors, and AMPLIMITE HDF-20 Connectors.

Note: For 50-position HDF connectors, you must also order Connector-Specific Kit No. 768350-1.

Note: All part numbers are RoHS compliant.

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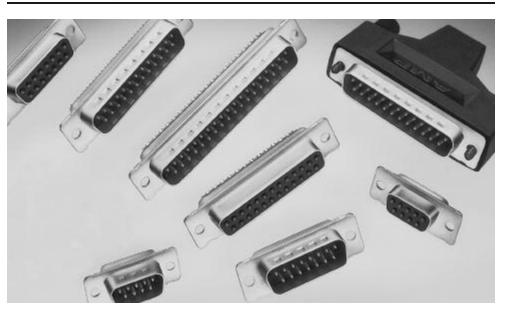
HD-20 Solder Cup Connectors

Product Facts

- Preloaded duplex-plated solder cup contacts
- Shell finish in choice of standard zinc or tin
- Two-piece 94V-0 rated plastic insert
- Anti-solderwicking contact design
- Intermateable with other subminiature D connectors
- Available in 9, 15, 25 and 37 position (shell sizes 1-4) plugs and receptacles
- Easy application without special application tools
- Shields offer full EMI shielding and ESD insulation

Cable Connectors

- Crimped shield termination for low impedance
- Shield crimp provides strain relief
- Shields may be post molded or covered with enclosures
- Recognized under the Component Program of Underwriters Laboratories, Inc., File No. E28476
- Listed under Underwriters Laboratories Inc., connectors for use in data, signal, control & Power Applications components, File No. E127344
- Certified by Canadian Standards Association, File No. LR 97981



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HD-20 Solder Cup Connectors (Continued)



Material and Finish:

Shell—Steel, tin or zinc plated **Insert**—94V-0 rated thermoplastic, black

Contacts—Phosphor bronze; duplex plated with gold flash on mating end, tin on solder cup, with entire contact nickel underplated

Related Product Data:

Mateable Connectors:

HDE—pages 110-119 HDF—pages 124-126

HDP—pages 90-101 HD-20 Solder Cup—pages 128-130 HD-20 Board Mount—pages 54-71, 78-85, 87-89 Cable Clamps—pages 132, 133, 135-137, 140, 141, 144, 145 Mating Hardware—pages 146-150, 151-154

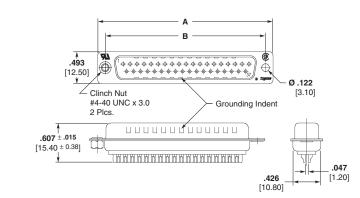
Technical Documents:

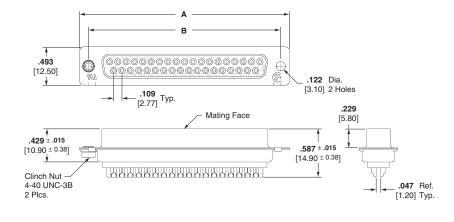
Product Specification 108-40031 Instruction Sheet 408-9193



Plug

Receptacle





Shell	No. of	Dimer	nsions	Plug Part Numbers		Receptacle Part Numbers	
Size	Contact Positions	A	B	Tin Plated Shell	Zinc Plated Shell	Tin Plated Shell	Zinc Plated Shell
1	9	1.210 30.80	.984 24.99	5-747904-2	5-747904-2	5-747905-2	5-747905-2
2	15	1.544 39.20	1.313 33.32	5-747908-2	5-747908-2	5-747909-2	5-747909-2
3	25	2.089 53.01	1.853 47.04	5-747912-2	5-747912-2	5-747913-2	5-747913-2
4	37	2.734 69.40	2.502 63.50	5-747916-2	5-747916-2	5-747917-2	747917-4

Note: All part numbers are RoHS compliant.

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HD-20 Solder Cup Shielding Hardware Enclosure Kits

Plug and Receptacles



Each kit contains

- Connector with preloaded, nonremovable contacts
- Shield
- Enclosure

Cable Connectors

Two jackscrews

Material and Finish:

Connector Shell-Steel, tin plated Connector Insert-94V-0 rated thermoplastic, black Shields-Steel, tin plated Enclosure—PVC, black

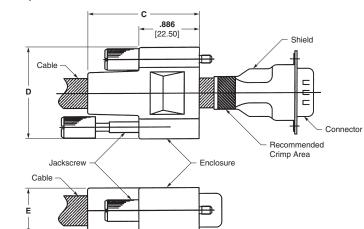
Jackscrews-Brass, zinc coated Contacts—Phosphor bronze; duplex plated with gold flash on mating end, tin on solder cup, with entire contact nickel underplated

Related Product Data:

Mateable Connectors: HDE-pages 110-119 HDF-pages 124-126 HDP-pages 90-101 HD-20 Solder Cup-pages 128-130 HD-20 Board Mount-pages 82-85, 87-89

Technical Documents:

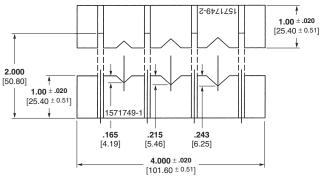
Product Specification 108-40031 Instruction Sheets 408-9193



Shell	No. of Contact	Dimensions					(it umbers	Shielding E Expansio		
Size	Positions	С	D	E	Insulation Diameter	Plug	Receptacle	Cable O.D. (Max.)	Part Number	
					.217270 5.51-6.86	1571650-4	1571654-4			
1	9	1.64	1.33	.659	.270324	1571650-5	1571654-5	.355	58241-4	
I	9	41.67	33.74	16.74	6.86-8.23	1571650-6	1571654-6	9.02	30241-4	
					.324385 8.23-9.78	1571650-6	1571654-6			
					.217270 5.51-6.86	1571651-4	1571655-4			
2	15	1.64	1.65		.659 .270324	1571651-5	1571655-5	.355	58241-4	
2		41.67	41.67 41.86		16.74 6.	6.86-8.23	1571651-6	1571655-6	9.02	JOZ41-4
									.324385 8.23-9.78	1571651-6
					.217270 5.51-6.86	1571652-4	1571656-4			
3	25	1.64	2.20	.659	.270324	1571652-5	1571656-5	.465	58241-1	
3	20	41.67	55.86	16.74	6.86-8.23	1571652-6	1571656-6	11.56	50241-1	
					.324385 8.23-9.78	1571652-6	1571656-6			
4	37	2.35 59.67	2.82 71.63	.659 16.74	.455480 11.58-12.19	1571653-2	1571657-2	.562 14.28	58241-2	

Note: Components of the kits are shipped unassembled and bulk-packaged in quantities of 100 pieces.

HD-20 Solder Cup Shielding Hardware Crimping Tool



Assembled Tooling: Part Number 1571750-1 Individual Tools (for customer fabrication): 1571749-1 & 1571749-2

Note: All part numbers are RoHS compliant.

Dimensions are in inches and

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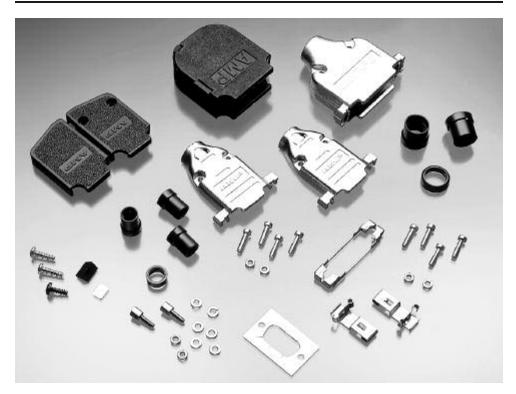
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Accessories

Numerous accessories are available for strain relief and cable clamping, shielding, connector-to-connector mating, connector-toconnector pc board mounting, and keying. These accessories are illustrated and tabled on the following pages.

To help discern the accessories available for a particular connector type, refer to the Product Selection Guide at the beginning of the connector section. Also, the connector the accessory is used with is listed under the Related Product Data heading next to the accessory listing.



Section Contents

Unshielded Cable Clamps

Universal Cable Clamps for Jacketed Cable
One-Piece, All-Plastic Cable Clamp
Straight/90° Low Profile Cable Clamps
Slide-On Back Covers
Box and Lid, Straight/90° Exit
Clam Shell, Straight/45° 138
Straight Exit, Dataphone
Straight Exit for Jacketed Cable (Two-Piece)
Straight/90° Exit 140
Shielded Cable Clamps
Straight Exit RFI/EMI Shields for Jacketed Cable
(HĎE, HDP)141
Straight/90° Éxit RFI/EMI Die Cast Shields for
Jacketed Cable (HDE, HDP) 142
Crimp and Split-Ring Ferrules

Dimensions are shown for

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Slide Latch Clips	151
Locking Post Assemblies	151
Spring Latches (Two-Piece)	
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Standoff Bushings	
Keying Plug	
EMI/RFI Gasket	

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Thermoplastic, black

Thermoplastic, black

Steel, zinc plated

page 152

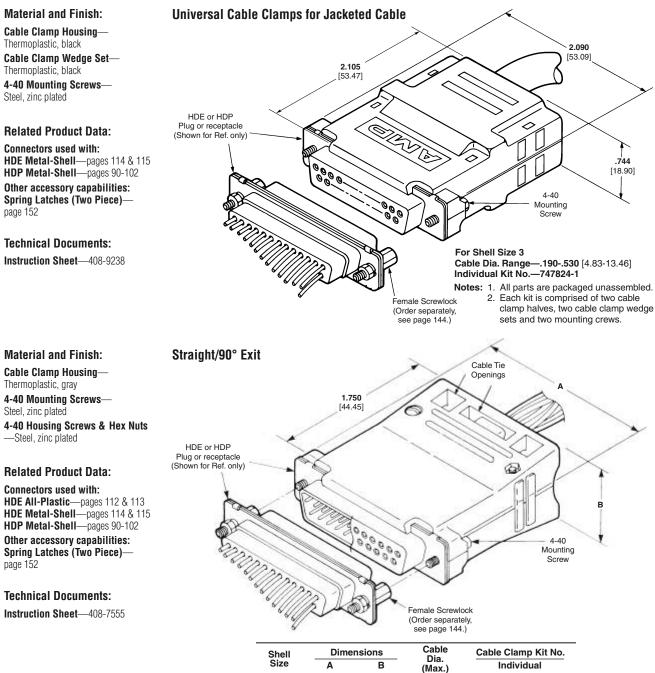
Thermoplastic, gray

-Steel, zinc plated

Steel, zinc plated

page 152

Unshielded Cable Clamps



Shell		Dimer	isions	Dia.	Cable Clamp Kit No.
	Size	Α	В	(Max.)	Individual
	2	1.550 39.37	.826 20.98	.350 8.89	5206471-1
	3	2.090	.826	.335 8.51	5206472-1
	5	53.09	20.98	.460 11.68	5745134-1
	4	2.738 69.55	.826 20.98	.675 17.15	5745081-1
	5	2.644 67.16	.938 23.83	.775 19.69	5745082-1

Notes: 1. All parts are packaged unassembled.

2. Straight or 90° cable exit is achieved by inserting AMP-TY Cable Ties through cable tie openings and clamping the cable to one

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housing half only.

Note: All part numbers are RoHS compliant.

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The TE Quik-Snap Backshell Kit is a one-piece, all-plastic cable clamp kit designed for use with either the AMPLIMITE HDP-20, HDP-22, or HDE, all-plastic or metal-shell connectors.

Kits are available for connector sizes 1, 2, 3, and 4 with a cable exit option of 180° or 120°.

Each kit contains:

- 1-Hinged, plastic clamp
- 2-Self-tapping screws
- 1-Strain relief clip
- 1-Cable exit gate plug (Used to close unused exit)

(For metal-shell connector applications an optional kit with 2 retainer clips and screws is available.)

Material and Finish:

Cover-Polypropylene, black Strain Relief Clip—Stainless steel Retainer Clip—Stainless steel Screws—Carbon steel, zinc plated Cable Gate—Polypropylene, Black

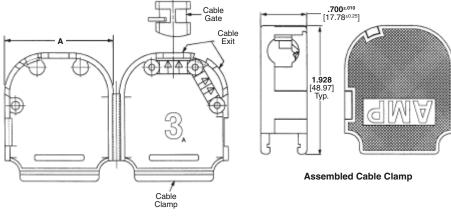
Related Product Data:

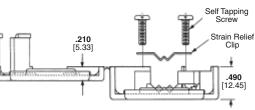
Connectors used with: HDP Metal-Shell—pages 90-102 HDE All-Plastic—pages 112 & 113 HDE Metal-Shell—pages 114 & 115

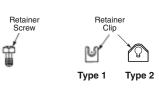
Technical Documents:

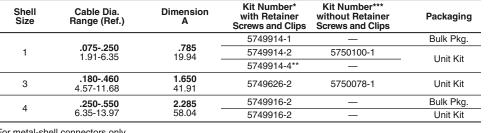
Instruction Sheet—408-7837











*For metal-shell connectors only.

**Type 2 Retainer Clip

***For Metal-Shell or All-Plastic Connectors

Note: All part numbers are RoHS compliant.

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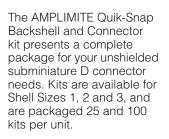
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Unshielded Cable Connector and Clamp Kits



Each kit contains:

1-Hinged Plastic Clamp 2-Retention Screws 2-Retention Clips 1-Cable Gate Plug 1-Strain Relief Clip 2-Self Tapping Screws 1-Connector and Contacts

Material and Finish:

Cable Connectors

Cover—Polypropylene, black Retention Screws—Steel, zinc plated Retention Clips—Stainless steel Cable Gate Plug—Polypropylene, Black

Strain Relief Clip—Stainless steel Self Tapping Screws—Steel, zinc plated

Contacts—Brass (HDP Pins), Phosphor Bronze (All Others), plated gold flash on the mating end, .000100 [0.00254] min. tin or tin on the terminating end, all over .000030 [0.00076] min. nickel underplating **Housing**—Polyester or nylon, glassfilled, UL rated 94V-0, black

Shell—Steel, plated .000200 [0.00508] min. tin over .000050 [0.00127] min. copper

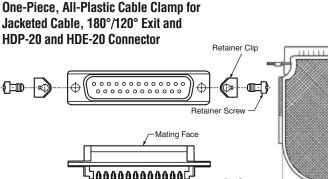
Technical Documents:

HDE Connectors: Instruction Sheets— 408-6621

Application Specifications— 114-40002 114-40003

HDP Connectors: Application Specifications— 114-10000 114-40030

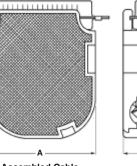
Cable Clamps: Instruction Sheet—408-9544 Retainer Clips: Instruction Sheet—408-7837



HDE-20 Connector

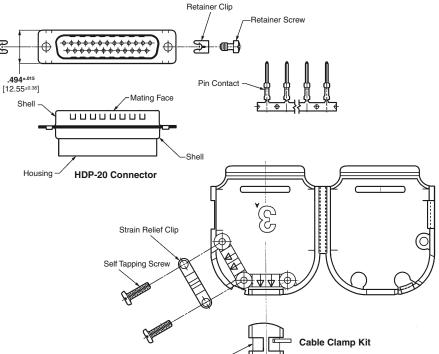
Housing -

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Assembled Cable Clamp and Connector .700±.015 [17.78±0.38] 2.079

[52.81] Max.



Pin Contact

Unshielded Cable Clamp Kits with HDP-20 Connectors

Shell Size	Cable Dia. Range (Ref.)	Dimension A	Plug Kit Part No.	Receptacle Kit Part No.	Packaging
1	.075250 1.91-6.35	.785 19.94	749808-8	749812-7	100/pack
2	.170380 4.32-9.65	1.110 28.19	749808-9	—	100/pack
3	.180460 4.58-11.68	1.650 41.91	749808-7	1-749812-1	100/pack

Cable Gate Plug

Unshielded Cable Clamp Kits with HDE-20 All-Plastic Connectors

-	Shell Size	Cable Dia. Range (Ref.)	Dimension A	Plug Kit Part No.	Receptacle Kit Part No.	Packaging
-	3	.180460 4.58-11.68	1.650 41.91	749809-9	749813-8	100/pack

Note: All part numbers are RoHS compliant.

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Unshielded Cable Clamps

Straight Exit Low Profile for Jacketed Cable

Low Profile Cable Clamps feature a two-piece construction which allows the two cover halves to be snapped together, no hardware is required for assembly. They can be used on plugs or receptacles and will not interfere with commonly used mating hardware. Sufficient Cable Support Gates (or a Cable Support Gate Latch) are supplied with each cable clamp kit to achieve adjustable clamping over a wide range of jacketed cable diameters.

Material

Black thermoplastic

Related Product Data:

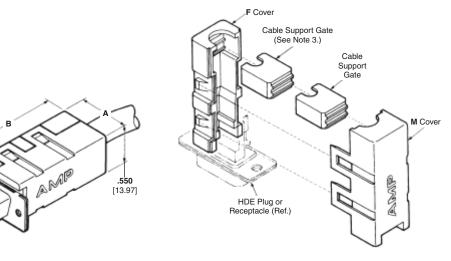
Connectors used with: HDE All-Plastic—pages 112 & 113 HDE Metal-Shell—pages 114 & 115 Other accessory capabilities: Male Screw Retainers-

pages 146 & 147

Female Screwlocks—page 148

Locking Posts and Slide Latchespages 149-151

Latching Blocks—pages 153 & 154



		Dimensior	IS	Cable		
Shell			В		Cable Cl	amp Kit No.
Size	Α	When used On Plug	When used on Receptacle	Dia. (Max.)	Individual	Bulk Packed
1	.732 18.59	1.582 40.18	1.533 38.94	.330 8.38	745547-1	745547-2
2	1.056 26.82	1.582 40.18	1.533 38.94	.425 10.80	745553-1	745553-2
3	1.604 40.74	1.700 43.18	1.651 41.94	.550 13.97	745560-1	745560-2

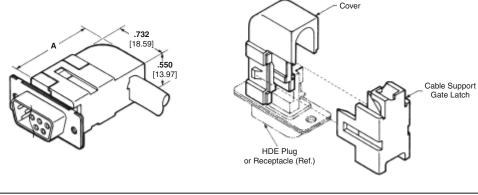
*Each part is individually bulk packed for multiple kit orders.

Notes: 1. All parts are packaged unassembled.

2. Each kit is comprised of two cover halves (F and M) and an assortment of cable support gates.

3. Cable support gate must be used as shown for small diameter cable.

90° Exit Low Profile for Jacketed Cable



Shell	Din	nension A	Cable Dia. (Max.)	Cable Clamp Kit No.
Size	When used on Plug When used on Receptacle			Individual
1	1.290 32.77	1.241 31.52	.330 8.38	745550-1

Notes: 1. All parts are packaged unassembled.

2. Each kit is comprised of a cover half and an assortment of cable support gate latches.

Note: All part numbers are RoHS compliant.

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Material

Slide-On Back Covers

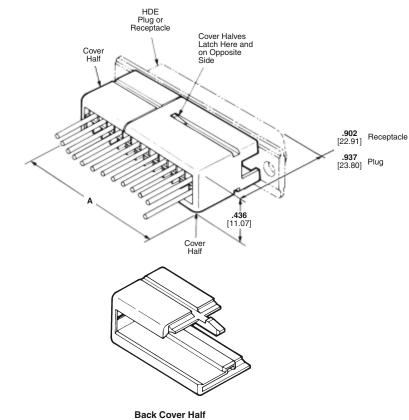
Black thermoplastic

Related Product Data:

Connectors used with: HDE All-Plastic—pages 112 & 113 HDE Metal-Shell—pages 114 & 115 Other accessory capabilities: RFI/EMI Metal Shields pages 141 & 142 Male Screw Retainers pages 146 & 147 Locking Posts and Slide Latchespages 149-151 Latching Blocks-pages 153 & 154

Technical Documents:

Instruction Sheet-408-6658



(See Note 2.)

Shell Size	Dim. A	Back Cover Kit No. Individual
1	.610 15.49	745530-1
2	.934 23.72	745530-2
3	1.482 37.64	745530-3
4	2.134 54.20	745530-4

Notes: 1. All parts are packaged unassembled.

2. Each slide-on back cover kit includes two identical cover halves which snap together over the connector.

Note: All part numbers are RoHS compliant.

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to change.

Dimensions are in inches and millimeters unless otherwise

Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999

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Box and Lid Cable Clamps can be used on either plugs or receptacles and will not interfere with commonly used hardware. Their hinged construction allows easy assembly to a harness. A wide range of cable diameters are accommodated through the use of cable support gates, supplied with each cable clamp.

Cable clamps are available in kits with appropriate hardware for convenient plug/receptacle mating. See below for kits with Male Screw Retainers.

Material and Finish:

Cable Clamp Housing-

Thermoplastic, black with textured finish Gates-Thermoplastic, black

Flat Head Screws-Steel, black, zinc plated

Related Product Data:

Connectors used with:

HDP Metal-Shell—pages 90-102 Other accessory capabilities: Male Screw Retainerspages 146 & 147 Female Screwlocks—page 148

Locking Posts and Slide Latchespages 149-151 Spring Latches (Two Piece)-

page 152 Latching Blocks-pages 153 & 154

Technical Documents:

Instruction Sheet—408-7555

Material and Finish:

Cable Clamp Housing-

Thermoplastic, black with textured finish Gates-Thermoplastic, black Flat Head Screws-Steel, black, zinc plated Male Screw-Steel, zinc plated yellow

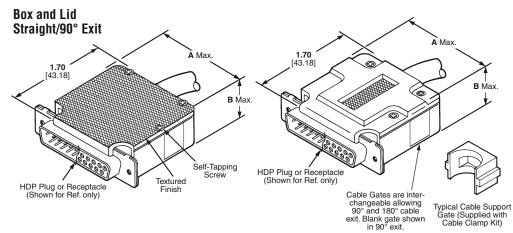
chromate Retaining Clip—Stainless steel

Related Product Data:

Connectors used with: HDP Metal-Shell—pages 90-102

Technical Documents::

Instruction Sheets-408-7555 408-7837



Shell Size 1 & 2

Shell

Size

1

2

3

4

5

Shell Size 3 & 4 & 5

Cable Connectors

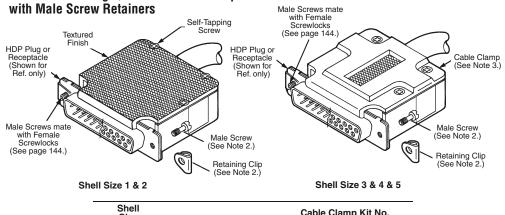
Dimensions		Cable Dia. M	ax. (Ref.)	Cable Clamp Kit No.	
Α	В	Straight Cable Exit	90° Cable Exit	Individual	Bulk Packed*
.755 19.18	.630 16.00	.160 4.06	.160 4.06	207467-1	207467-2
1.078 27.38	.630 16.00	.320 8.13	.320 8.13	207470-1	_
1.620 41.15	.770 19.56	.390 9.91	.390 9.91	207345-1	207345-2
2.268 57.61	.770 19.56	.640 16.26	.405 10.29	207473-1	207473-2
2.178 55.32	.880 22.35	.490 12.45	.490 12.45	207476-1	_

*Each part is individually bulk packed for multiple kit orders.

Notes: 1. All parts are packaged unassembled.

- Cable diameter is adjustable by changing cable support gates. Use the flat side of cable support gates for discrete wire, and the semicircle side for jacketed cable.
- 3. Cable clamp assemblies are available in kits with male screw retainers, see below.

Box and Lid Straight/90° Exit Cable Clamp Kits with Male Screw Retainers



Size	Cable Clamp Kit No.
1	5207908-1
2	5207908-4
3	5207908-7
4	1-5207908-0
5	1-5207908-3

- Notes: 1. All parts are packaged unassembled.
 - 2. Each kit is comprised of a cable clamp and male screw retainer hardware(2 each). Male screw retainers are also available in kit

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- form, see page 146.
- 3. For ordering cable clamps separately, see above.

Note: All part numbers are RoHS compliant.

specified

Dimensions are in inches and

millimeters unless otherwise

USA: +1 (800) 522-6752

Dimensions are shown for

reference purposes only.

Specifications subject

to change.

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Straight/45° Exit Cable Clamps

can be used on either a plug

interfere with commonly used

or receptacle and will not

hardware, such as Male Screw Retainers, Female Screw-locks or Spring Latches and Latching Blocks. Their

hinged construction allows

by merely positioning the Cable Support Gate for the desired angle prior to installing the assembly

onto the plug or receptacle. Adjustable screws are used to

tighten cable strain reliefs. Cable Clamp assemblies are available in kits with appropriate hardware for convenient plug/receptacle

Thermoplastic, black with textured finish Gates-Thermoplastic, black Pan Head Screws, 6-32 Set Screw and 6-32 Square Nut-Steel, zinc plated (sizes 1 and 2 include self-tapping

Material and Finish: Cable Clamp Housing-

Related Product Data:

HDP Metal-Shell—pages 90-102

Other accessory capabilities:

Female Screwlocks—page 148

Spring Latches (Two Piece)-

Instruction Sheet—408-7555 Material and Finish:

Cable Clamp Housing-

Gates-Thermoplastic, black

Latching Blocks—pages 153 & 154 **Technical Documents:**

Thermoplastic, black with textured finish

Pan Head Screws, 6-32 Set Screw

Male Screw-Steel, zinc plated yellow

Retaining Clip—Stainless steel **Related Product Data:** Connectors used with: HDP Metal-Shell—pages 90-102 **Technical Documents:** Instruction Sheets-

and 6-32 Square Nut-Steel, zinc plated (sizes 1 and 2 include self-tapping

Locking Posts and Slide Latches-

Connectors used with:

Male Screw Retainerspages 146 & 147

mating.

screws only)

pages 149-151

page 152

screws only)

chromate

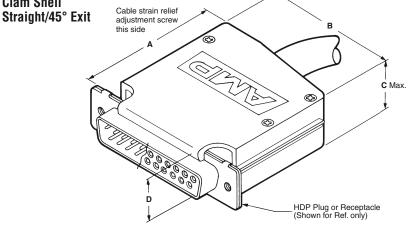
408-7555

408-7837

easy assembly to a harness. Also, the straight or 45° angle of the cable exit is achieved

Unshielded Cable Clamps (Continued)

Clam Shell



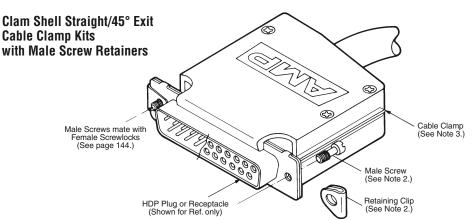
Shell Size	_	Dimen B	sions C	D	Cable Dia.	Short Cable Clamp Part No. Standard Cable C Part No. Part No.			
5126	Α	D	C	D	(Max.)	Individual	Bulk Packed*	Individual	Bulk Packed*
1	1.625 41.28	.750 19.05	.640 16.26	.640 16.26	.256 6.30	—	—	5205729-1	5205729-3
2	1.250 31.75	1.073 27.25	.600 15.24	.640 16.26	.320 8.13	5206393-1	—	—	—
2	1.625 41.28	1.073 27.25	.640 16.26	.640 16.26	.320 8.13	—	—	5205730-1	5205730-3
3	1.250 31.75	1.615 41.02	.600 15.24	.640 16.26	.420 10.67	5206390-1	5206390-3	—	_
3	1.625 41.28	1.615 41.02	.640 16.26	.640 16.26	.420 10.67	_			5205718-4
4	1.625 41.28	2.263 57.48	.640 16.26	.640 16.26	.490 12.45	_	_	5205731-1	_

*Each part is individually bulk packed for multiple assembly orders.

Notes: 1. All parts are packed unassembled.

2. Quantity of pan head screws supplied with cable clamp assembly varies with shell size.

- 3. Cable clamps are available in kits with male screw retainers, see below.
- 4. All pan head screws have combination cross-recessed and slotted heads.



Shell Size		ble Clamp No.	Standard Cable Clamp Kit No.		
	Individual	Bulk Packed*	Individual	Bulk Packed	
1	_	_	5206478-1	_	
2	_	_	5206478-2	_	
3	1-5206478-2	2-5206478-6	5206478-3	2-5206478-2	
4	_	_	5206478-4	_	
5	_	_	5206478-5	_	

*Each part is individually bulk packed for multiple assembly orders.

Notes: 1. All parts are packaged unassembled.

Dimensions are in inches and

2. Each kit is comprised of a cable clamp and male screw retainer hardware (2 each). Male screw retainers are also available in kit form, see page 146.

3. For ordering cable clamps separately, see above.

Catalog 82068

compliant.

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Note: All part numbers are RoHS

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millimeters unless otherwise reference purposes only. Specifications subject specified. USA: +1 (800) 522-6752

Dimensions are shown for

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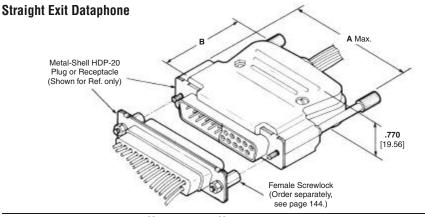
UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015



Material and Finish:

Cable Clamp Housing-Nylon, black 4-40 Fillister Head Screws & Hex Nuts-Steel, clear zinc plated Jackscrews-Steel, black zinc plated

Related Product Data: Connectors used with: HDP Metal-Shell—pages 90-102



 Shell	Dimensions		Max. Cable Dia.	Max. Cable Dia.	Cable Gate	Thread	Cable Clamp Kit No.	
Size	Α	В	(without Gate)	(with Gate)	Identification*	Size		
				.200 5.08	2A			
2	1.575 40.01	1.312 33.32	.400 10.16	.260 6.60	2B	4-40	5745122-2	
				.320 8.13	2C			
				.250 6.35	3A			
3	2.115 53.72	1.421 36.09	.500 12.70	.340 8.64	3B	4-40	5745121-2	
				.420 10.67	3C			

*Molded-in identification (as shown in chart above) is provided on cable support gates to facilitate proper selection with regard to shell size and maximum acceptable cable diameter.

Notes: 1. All parts are packaged unassembled.

2. Cable diameter is adjustable by changing cable support gates.

Straight Exit for Jacketed Cable (Two-Piece)

This cable clamp allows cable to be fully prepared and terminated to the connector before the clamp is installed.

Material and Finish:

Cable Clamps—ABS black

4-40 Fillister Head Screws and Hex Nuts—Steel, zinc plated

4-40 Mounting Screws-Steel, zinc plated

Jackscrews-Stainless steel, passivated

Related	Product	Data:
---------	---------	-------

Ferrules—pages 143-145

Connectors used with: HDE Metal-Shell—pages 114 & 115 HDP Metal-Shell—pages 90-102 Other accessory capabilities: Spring Latch (Two-Piece)page 152

Technical Documents:

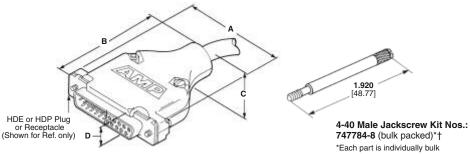
Instruction Sheet-408-6609

Dimensions are shown for

reference purposes only.

Specifications subject

to change.



747784-8 (bulk packed)*† *Each part is individually bulk packed for multiple kit orders. †Slotted for screwdriver use.

Cable Clamp Kits with Grommets

Shell		Dimer	nsions		Cable	No. of Grommets	Kit Numbers	
Size	Α	В	С	C D O.D. C D Range		Per Set	Kit Nullibers	
1	1.215 30.86	1.910 48.51	.570 14.48	.630 16.00	.185320 4.70-8.13	4	5748678-1	
2	1.545 39.24	1.910 48.51	.620 15.75	.620 15.75	.185320 4.70-8.13	4	5748678-2	
3	2.090 53.09	1.920 48.77	.680 17.27	.640 16.26	.255470 6.48-11.94	6	5748678-3	
4	2.738 69.55	1.920 48.77	.800 20.32	.620 15.75	.255470 6.48-11.94	6	5748678-4	
5	2.644 67.16	1.920 48.77	.900 22.86	.730 18.54	.255470 6.48-11.94	6	5748678-5	

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Germany: +49 (0) 6251-133-1999

Notes: 1. All parts are packaged unassembled.

2. Jackscrews must be purchased separately.

3. Split-ring and crimp ferrules are shown on pages 143-145.

4. Shielded cable clamps will not accept connector housings with clinch nuts.

Note: All part numbers are RoHS compliant.

specified.

Dimensions are in inches and

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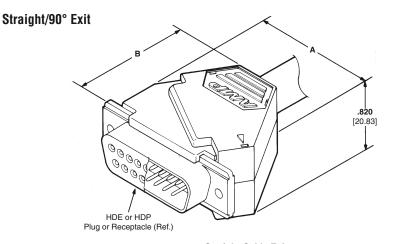
Straight/90° Exit Cable Clamps can be used on a plug or receptacle and will not interfere with commonly used mating hardware. Their three-piece construction allows easy assembly to a cable harness. Also, the same cable clamp components are used for both straight and 90° cable exit applications. This is accomplished by simply positioning the Male and Female Panels on the Yoke for the desired angle.

Material

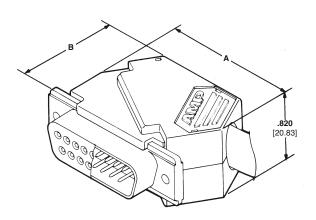
Black thermoplastic

Related Product Data:

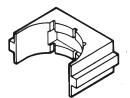
Connectors used with: HDE All-Plastic—pages 112 & 113 HDE Metal-Shell—pages 114 & 115 HDP Metal-Shell—pages 90-102 Other accessory capabilities: Female Screwlocks—page 148 Locking Posts and Slide Latches pages 149-151 Latching Blocks—pages 153 & 154



Straight Cable Exit Application



90° Cable Exit Application



Typical Cable Support Gate (Supplied with Cable Clamp Kit)

> UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015

	Cable Clamp	Dimer	nsions	Cable	Cable Clamp Kit No. Individual	
Shell Size	Configuration	Α	В	Dia.		
0	Straight Exit	1.906	1.672	FFO	745306-1	
3	90° Exit	2.066	1.396	.550		
4	Straight Exit	2.424	1.820	750	745311-1	
4	90° Exit	2.638	1.596	.750		

Notes: 1. All parts are packaged unassembled.

Dimensions are in inches and

millimeters unless otherwise

USA: +1 (800) 522-6752

 Each cable clamp assembly includes a yoke, male panel, female panel and four cable support gates. The cable diameter is adjustable by changing the cable support gates.

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Note: All part numbers are RoHS compliant.

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Dimensions are shown for

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Specifications subject

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Cable Connectors



Shielded Cable Clamps

Straight Exit RFI/EMI Shields for Jacketed Cable (Two-Piece)

This RFI/EMI shield allows cable to be fully prepared and terminated to the connector before the shield is installed. During installation, the shield of the jacketed cable is folded back and compressed into the cable opening of the RFI/EMI shield. For greater cable support and/or shielding effectiveness, split-ring and crimp ferrules are available (pages 143-145).

Material and Finish:

Die Cast Shield-Zinc alloy, plated bright nickel over bright copper

Metal-Plated Plastic Shield-

Thermoplastic, plated nickel over copp 4-40 Fillister Head Screws and

Hex Nuts-Steel, zinc plated 4-40 Mounting Screws-Steel, zind plated

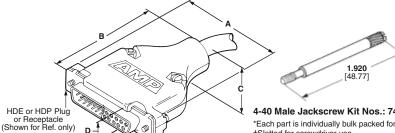
Jackscrews-Stainless steel, passivated

Related Product Data:

Ferrules—pages 143-145 Connectors used with: HDE Metal-Shell—pages 114 & 115 HDP Metal-Shell (Tin plated only)—pages 90-102 Other accessory capabilities: Spring Latch (Two-Piece)page 152

Technical Documents:

Product Specification-108-40032 Instruction Sheet—408-6609



4-40 Male Jackscrew Kit Nos.: 747784-8 (bulk packed)*+ *Each part is individually bulk packed for multiple kit orders. †Slotted for screwdriver use

Shell		Dimen	sions		Cable	Die Cast	Metal-Plated		Grommet Sets	
Size	Α	в	С	D	O.D. (Max.)	Shield Kit Numbers	Plastic Shield Kit Numbers	Cable O.D. Range	No. of Grommets Per Set	Part Number
					.200 5.08	5745171-2	5745854-5	_	_	_
1	1.215 30.86	1.910 48.51	.550** 13.97	.620** 15.75	.250 6.35	5745171-1	5745854-3	_	_	_
					.370 9.40	5745171-5	5745854-1	.185320 4.70-8.13	4	747746-1
					.225 5.72	5745172-3	5747099-7	_	_	—
0	1.545	1.910	.620	.620	.300 7.62	5745172-2	5747099-5	—	—	—
2	39.24	48.51	15.75	15.75	.375 9.53	5745172-1	5747099-3	.185320 4.70-8.13	4	747746-1
					.430 10.92	1-5745172-3	5747099-1	_	_	_
					.280 7.11	5745173-5	5745833-9	_	_	_
					.350 8.89	5745173-4	5745833-7	_	_	_
3	2.090 53.09	1.920 48.77	.680 17.27	.620 ** 15.75	.430 10.92	5745173-3	5745833-5	_	-	_
					.480 12.19	5745173-2	5745833-4	_	_	_
					.530 13.46	5745173-1	5745833-1	.255470 6.48-11.94	6	747973-1
					.350 8.89	5745174-5	5747100-9	-	-	_
					.425 10.80	5745174-4	5747100-7	_	_	_
4	2.738	1.920	.800	.620	.500 12.70	5745174-3	_	_	_	_
7	69.55	48.77	20.32	15.75	.530 13.46	2-5745174-7	-	.255470 6.48-11.94	6	747973-1
					.575 14.61	5745174-2	5747100-3	-	-	_
					.650 16.51	5745174-1	5747100-1	_	_	_
					.375 9.53	5745175-6	-	-	-	_
					.450 11.43	5745175-5	_	-	-	_
5	2.644	1.920	.900	.730	.525 13.34	5745175-4	_	.255470 6.48-11.94	6	747973-1
5	67.16	48.77	22.86	18.55	.600 15.24	5745175-3	-	-	-	_
					.675 17.15	5745175-2	—	_	-	_
					.750 19.05	5745175-1	5747098-1	_	_	_

Cable Clamp Kits with Grommets

					Cable	No. of	Kit Numbers	
Shell Size	Α	Dimen B	sions C	D	O.D. Range	Grommets Per Set	Die Cast Shield With Grommets	Metal-Plated Plastic Shield With Grommets
1	1.215 30.86	1.910 48.51	.550 ** 13.97	.620 ** 15.75	.185320 4.70-8.13	4	5748676-1	5748677-1
2	1.545 39.24	1.910 48.51	.620 15.75	.620 15.75	.185320 4.70-8.13	4	5748676-2	5748677-2
3	2.090 53.09	1.920 48.77	.680 17.27	.620** 15.75	.255470 6.48-11.94	6	5748676-3	5748677-3
4	2.738 69.55	1.920 48.77	.800 20.32	.620 15.75	.255470 6.48-11.94	6	5748676-4	5748677-4
5	2.644 67.16	1.920 48.77	.900 22.86	.730 18.54	.255470 6.48-11.94	6	5748676-5	5748677-5

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Germany: +49 (0) 6251-133-1999

Notes: 1. All parts are packaged unassembled.

specified.

Note: All part numbers are RoHS compliant.

Dimensions are shown for

reference purposes only. Specifications subject

to change.

2. Jackscrews must be purchased separately.

 Split-ring and crimp ferrules are shown on pages 143-145. Shielded cable clamps will not accept connector housings with clinch nuts. 4.

Dimensions are in inches and

millimeters unless otherwise

USA: +1 (800) 522-6752

** The following dimensions apply to metal-plated plastic Size 1: C=.570 [14.48], D=.630 [16.0] Size 3: D=.640 [16.26] cable clamps:

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Cable Connectors

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Both the straight exit and the 90° exit die cast RFI/EMI shield allows cable to be fully prepared and terminated to the connector before the shield is installed. During installation, the shield of the jacketed cable is folded back and compressed into the cable opening of the RFI/EMI shield. For greater cable support and/or shielding effectiveness, splitring and crimp ferrules are available (pages 143-145).

Material and Finish:

Cable Connectors

Shield-Zinc alloy, plated nickel over copper

4-40 Pan Head Screws & Latch Screws (90° Exit Only)-Steel, zinc plated

One-Piece Slide Latch (90° Exit Only)-Stainless steel

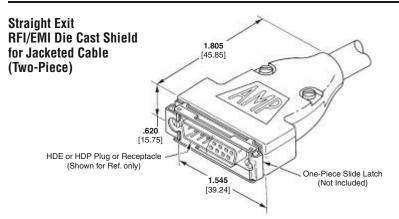
Related Product Data:

Ferrules—pages 143-145

Connectors used with: HDE Metal-Shell—pages 114 & 115 HDP Metal-Shell (Tin plated only)—pages 90-102

Technical Documents:

Product Specification-108-40032 Instruction Sheet—408-6769



Shell Size	No. of Positions	ID Letter	Cable Dia. w/Ferrules	Part Number	Grommet Kit
		E	.260300 6.60-7.72	5745919-3	_
2	15	Н	.190375 4.83-9.53	5745919-2	747746-1*
		к	.190430 4.83-10.92	5745919-1	_

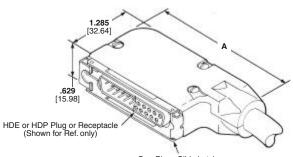
*Cable Dia. Range using Grommet is .185-.320 [4.70-8.13].

 Notes:
 1. All parts packaged unassembled.

 2. Each kit comprised of a two-piece shield with 2 pan head screws.

3. Split-ring and crimp ferrules are shown on pages 143-145.

90° Exit RFI/EMI **Die Cast Shields** for Jacketed Cable (Two-Piece)



One-Piece Slide Latch (See Note 2.)

Shell Size	Dimension A	Cable Dia. w/Ferrules	Shield with Slide Latch Kit Numbers (See Note 2)	Shield without Slide Latch Kit Numbers (See Note 3)	Grommet Kit
		.185225 4.70-6.48	5745652-4	—	—
	2.310	.260300 6.60-7.62	5745652-3	—	—
2	58.67	.190375 4.83-9.53	5745652-2*	_	747746-1
		.190430 4.83-10.92	5745652-1	_	_
		.240280 6.10-7.11	5745653-5	_	_
		.315355 8.00-9.02	5745653-4	_	_
3	2.850 72.39	.190430 4.83-10.92	5745653-3	5747194-3	_
		.440480 11.18-12.19	5745653-2	_	_
		.380530 9.65-13.46	5745653-1*	_	747973-1

* Cable Dia. with Grommet Kit: Size 2 = .185-.320 [4.70-8.13]; Size 3 = .255-.470 [6.48-11.94].

Notes: 1. All parts are packaged unassembled.

Dimensions are in inches and

millimeters unless otherwise

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specified.

2. Each kit is comprised of a two-piece shield with three pan head screws and a slide latch with two 4-40 slide latch screws. 3. Each kit is comprised of a two-piece shield with three pan head screws. 4. Split-ring and crimp ferrules are shown on pages 143-145.

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UK: +44 (0) 800-267666

France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999

China: +86 (0) 400-820-6015

Note: All part numbers are RoHS compliant.

Dimensions are shown for

reference purposes only. Specifications subject

to change.

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Material and Finish:

Outer Ferrule—Copper, plated .000100 [0.00254] min. tin Inner Ferrule-023 [0.58] thick brass, plated .000050 [0.00127] tin over copper

Related Product Data:

Shields used with: Straight Exit—pages 141 & 142 90° Exit—page 142

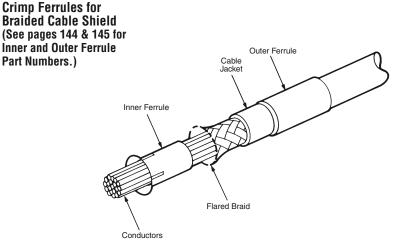
Technical Documents:

Product Specification— 108-40032 Instruction Sheets-

408-9315 Hand Tool 408-9318 Die Sets

Application Tooling

Note: Crimp ferrules are for use with braided shields only. Crimp ferrules require application tooling with die sets for attachment to cable.





Pneumatic Bench Tool No. 312522-2 (Requires Die Set Holder No. 58449-1.)

Foil or Braid

Conductors

(to be folded back over ferrule and ground wire)



AMP Hand Tool No. 543344-1 (See pages 144 & 145 for Hand Tool Die Set Numbers)

Split-Ring Ferrules for Foil or Braided **Cable Shield** (See pages 144 & 145 for Split-Ring Ferrule Part Numbers.)

Material:

Aluminum

Related Product Data:

Shields used with: Straight Exit—pages 141 & 142 90° Exit—page 142

Technical Document

Product Specification—108-40032

Note: All part numbers are RoHS compliant.

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reference purposes only. www.te.com

Specifications subject to change.

Dimensions are shown for

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Cable

Jacket

Ground

Wire

Split-Ring Ferrule

Note: Split-ring ferrules cannot be used with outer and inner ferrules. Split-ring ferrules are suitable for both foil and braided shields. The ferrules do not require tooling for assembly.

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UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999



Crimp and Split-Ring Ferrules

		-	- When using th	ese Shield Kit	s ———	-	Us	e these Ferrule	es —	>
Shell	Cable	Straight Evit	Shield Kit No.		it Die Cast d Kit No.		C	rimp Ferrule No	o. and Tooling I	No.**
Shell Size	Dia. (Max.)	Die Cast	Metal-Plated Plastic	With Slide Latch	Without Slide Latch	Split-Ring* Ferrule No.	Inner	Outer	Die Set For Hand Tool 543344-1	Applicator Die Set
	.200 5.08	5745171-2	5745854-5	_	_	745508-2	_	_	_	_
	.240 6.10	5745171-5	5745854-1	_	_	_	7-745129-8	3-745130-8	543013-2	813809-1
1	.250 6.35	5745171-1	5745854-3	_	_	745508-3	_	_	_	_
	.280 7.11	5745171-5	5745854-1	—	—	—	7-745129-9	4-745130-5	1-543013-7	813809-7
	.370 9.40	5745171-5	5745854-1	_	_	745508-6	6-745129-9	4-745130-0	543013-6	813809-5
	.225 5.72	5745172-3	5747099-7	5745652-4	_	745508-3	_	_	_	_
	.240 6.10	5745172-1	5747099-3	5745652-2	_	_	7-745129-8	3-745130-8	543013-2	813809-1
	.240 6.10	1-5745172-3 5745919-1	- 5747099-1	5745652-1	_	_	7-745129-3	3-745130-8	543013-3	813809-1
	.280 7.11	<u>1-5745172-3</u> 5745919-1	- 5747099-1	5745652-1	_	_	7-745129-8	4-745130-5	1-543013-6	813809-7
2	.300 7.62	5745172-2 5745919-3	- 5747099-5	5745652-3	_	745508-4	_	_	_	_
	.350 8.90	<u>1-5745172-3</u> 5745919-1	- 5747099-1	5745652-1	_	_	7-745129-2	3-745130-9	543013-4	813809-2
	.365 9.27	5745172-1	5747099-3	5745652-2	_	_	6-745129-9	4-745130-0	543013-6	813809-5
	.375 9.53	5745172-1 5745919-2	- 5747099-3	5745652-2	_	745508-6	_	_	_	_
	.430 10.92	1-5745172-3 5745919-1	- 5747099-1	5745652-1	_	745508-1	7-745129-1	4-745130-1	543013-7	813809-3
	.240 6.10	5745173-3	5745833-5	5745653-3	5747194-3	_	7-745129-3	3-745130-8	543013-3	813809-1
	.280 7.11	5745173-5	5745833-9	5745653-5	_	745508-4	_	_	_	
	.280 7.11	5745173-3	5745833-5	5745653-3	5747194-3	_	7-745129-8	4-745130-5	1-543013-6	813809-7
	.350 8.90	5745173-4	5745833-7	5745653-4	_	745508-5	_	_	_	_
3	.350 8.90	5745173-3	5745833-5	5745653-3	5747194-3	_	7-745129-2	3-745130-9	543013-4	813809-2
	.430 10.92	5745173-3	5745833-5	5745653-3	5747194-3	745508-1	7-745129-1	4-745130-1	543013-7	813809-3
	.430 10.92	5745173-1	5745833-1	5745653-1	_	_	7-745129-5	4-745130-1	543013-8	813809-3
	.480 12.19	5745173-2	_	5745653-2	_	745508-8	_	_	_	_
	.530 13.46	5745173-1	5745833-1	5745653-1	_	745508-9	7-745129-4	4-745130-2	1-543013-0	813809-4

*For split-ring ferrules, Min. O.D. is .040 [1.02] smaller than Max. O.D. **For inner and outer ferrules, Min. O.D. is .050 [1.27] smaller than Max. O.D. At the Max. cable O.D. the Min. insulation thickness is .060 [1.52].

Continued on Page 145

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Crimp and Split-Ring Ferrules (Continued)

		-	- When using the	se Shield Kits	>	Use these Ferrules					
Shell	Cable Dia.	Straight Exit	Shield Kit No.	90° Exit	Die Cast Kit No.		Crimp Ferrule No. and Tooling No.**				
Size	(Max.)	Die Cast	Metal-Plated Plastic	With Slide Latch	Without Slide Latch	Split-Ring* Ferrule No.	Inner	Outer	Die Set for Hand Tool 54334-1	Applicator Die Set	
	.240 6.10	5745174-4	5747100-7	_	_	_	7-745129-3	3-745130-8	543013-3	813809-1	
	.280 7.11	5745174-4	5747100-7	_	_	—	7-745129-8	4-745130-5	1-543013-6	813809-7	
	.350 8.90	5745174-5	5747100-9	_	_	745508-5	—	_	_	_	
	.350 8.90	5745174-4	5747100-7	_	_	_	7-745129-2	3-745130-9	543013-4	813809-2	
4	.430 10.92	5745174-4	5747100-7	_	_	745508-1	7-745129-1	4-745130-1	543013-7	813809-3	
	.500 12.70	5745174-3	—	_	_	745508-8	_	_	_	_	
	.525 13.34	5745174-1	5747100-1	_	_	_	7-745129-6	4-745130-2	1-543013-1	813809-4	
	.575 14.61	5745174-2	5747100-3	_	_	1-745508-0	_	_	_	_	
	.650 16.51	5745174-1	5747100-1	_	_	1-745508-1	_	_	_	_	
	.240 6.10	5745175-6	_	_	_	_	7-745129-0	3-745130-8	543013-2	813809-1	
	.365 9.27	5745175-6	_	_	—	—	6-745129-9	4-745130-0	543013-6	813809-5	
	.375 9.53	5745175-6	_	_	—	745508-6	—	—	—	_	
	.430 10.92	5745175-4	_	_	—	—	7-745129-5	4-745130-1	543013-8	813809-3	
	.450 11.43	5745175-5	_	_	—	745508-7	—	—	—	—	
5	.525 13.34	5745175-4	_	_	—	745508-9	—	—	—	—	
	.530 13.46	5745175-4	_	_	_	_	7-745129-4	4-745130-2	1-543013-0	813809-4	
	.600 15.24	5745175-3	_	_	_	1-745508-0	—	—	_	_	
	.650 16.51	5745175-1	5747098-1	_	_	—	1-745508-1	4-745130-3	1-543013-4	_	
	.675 17.15	5745175-2	_	_	_	1-745508-1	_	_	_	_	
	.750 19.05	5745175-1	5747098-1	—	—	1-745508-2	—	_	_	_	

*For split-ring ferrules, Min. O.D. is .040 [1.02] smaller than Max. O.D. **For inner and outer ferrules, Min. O.D. is .050 [1.27] smaller than Max. O.D. At the Max. cable O.D. the Min. insulation thickness is .060 [1.52]. Note: Refer to page 143 for Application Tooling for ferrules.

Note: All part numbers are RoHS compliant.

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Hardware

Commoning Strip (for HDF-20 Plugs, Size 20 Pin Contacts)

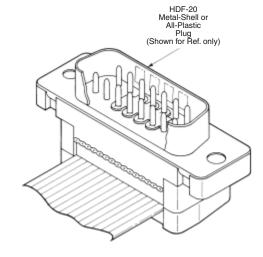
Material and Finish:

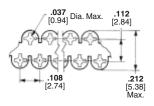
Brass, .004 [0.10] thick, tin plated **Part No. 206918-2** (Continuous Strip)

Related Product Data:

Used with HDF-20 Plugs page 126

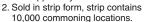
Cable Connectors





Notes:

 Use punching tool to remove undesired pin commoning locations on commoning strip. Use mating receptacle to seat strip over pins in plug. Punching tool is not supplied by TE.
 Caldi print for each pair of the participant.



Male Screw Retainers for Metal-Shell Connectors (HDE and HDP)

Material and Finish:

Male Screw—Steel, zinc plated clear or yellow chromate

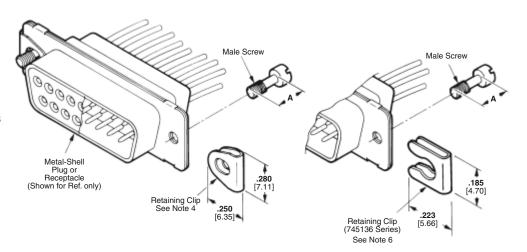
Retaining Clip—.012 [0.31] stainless steel

Related Product Data:

Connectors used with: HDE Metal-Shell—pages 114 & 115 HDP Metal-Shell—pages 90-102

Technical Documents:

Instruction Sheet—408-7837



Male Screw	Thread Size	Dimension	Male Screw R	etainer Kit No.
Finish	Thread Size	Α	Individual	Bulk Packed*
		.220	5205980-1	5205980-3
	4-40	5.59	5787354-1**	_
Yellow Chromate	4-40	.200 5.08	5745136-1	5745136-2
	M3 (Metric)	.225 5.72	5207871-1	_
Clear	4-40	.220 5.59	5205980-4	5205980-5
Chromate	4-40	.200 5.08	5745136-3	5745136-4

*Each part is individually bulk packed for multiple kit orders.

** Phillips Head Screw

Notes: 1. All parts are packaged unassembled.

Dimensions are in inches and

millimeters unless otherwise

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connector.

specified.

Dimensions are shown for

reference purposes only. Specifications subject

to change.

- 2. Each kit is comprised of two male screws and two retaining clips. Male screw retainers are also furnished as part of cable clamp kits (pages 137 and 138).
- Male screw retainers mate with female screwlocks (page 144), with HDF metal-shell connectors featuring 4-40 threaded inserts (page 148) and with HD metal-shell board mount connectors featuring 4-40 threaded inserts or female screwlocks.
- 4. Retaining clip must be assembled onto connector flanges with threaded hole toward wire side of connector.
- All screws have straight slotted heads except where noted.
 Retaining clip must be assembled onto connector flanges with notched side of retainer toward mating side of

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Note: All part numbers are RoHS compliant.

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Material and Finish:

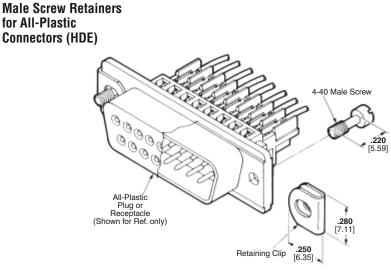
Male Screw-Steel, zinc plated yellow chromate steel

Related Product Data:

Connectors used with: HDE All-Plastic-pages 112 & 113

Technical Documents:

Instruction Sheet-408-7837



Kit Numbers:

745647-1 (Individually packaged, see Note 2) 745647-2 (Bulk packed)* *Each part is individually bulk packed for multiple kit orders.

- Notes: 1. All parts are packaged unassembled.
 - 2. Each kit is comprised of two 4-40 male screws and two retaining clips.
 - Male screw retainers mate with female screwlocks (page 148), with HDF All-Plastic connectors featuring 4-40 threaded inserts (page 125), with HD All-Plastic board mount connectors featuring integral standoffs with 4-40 threaded inserts and female screwlocks.
 - 4. Retaining clips must be assembled onto connector flanges with threaded hole toward wire side of connector.

Material and Finish:

Male Screw-Steel, zinc plated clear chromate Retaining Clip—.012 [0.51] stainless steel

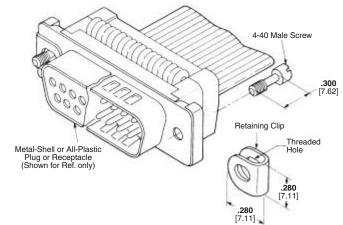
Related Product Data:

Connectors used with: HDF Metal-Shell and All-Plasticpages 125 & 126

Technical Documents:

Instruction Sheet—408-7837

Male Screw Retainers for Metal-Shell and **All-Plastic Connectors** (HDF)



Kit Numbers:

746881-1 (Individually packaged, see Note 2)

746881-2 (Bulk packed)*

*Each part is individually bulk packed for multiple kit orders.

- Notes: 1. All parts are packaged unassembled.
 - 2. Each kit is comprised of two male screws and two retaining clips.
 - 3. Male screw retainers mate with female screwlocks (page 148), and with HD board mount connectors featuring female screwlocks.
 - 4. Retaining clips must be assembled onto connector flanges with threaded hole toward wire side of connector.

Note: All part numbers are RoHS compliant.

specified.

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to change.

reference purposes only. Specifications subject

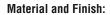
Dimensions are shown for

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Cable Connectors





All Parts—Cold rolled steel, zinc plated clear or yellow chromate

Related Product Data:

Connectors used with: HDE Metal-Shell or All-Plastic pages 112-115 HDF Metal-Shell or All-Plastic pages 125 & 126 HDP Metal-Shell—pages 90-102 HD Board Mount—pages 54-71, 78-85, 87-89

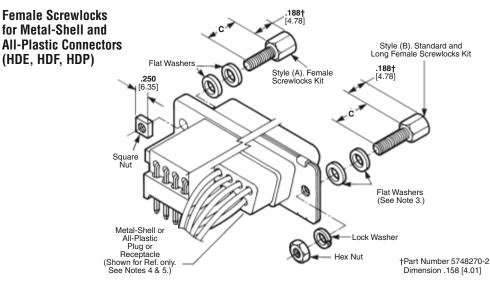
Technical Documents:

Cable Connectors

Instruction Sheet—408-7837



Nut Driver, Part No. 811262-1 (Used for assembling female screwlocks to connector flange)



Connector	Style	Dimension	Thread	Finish	Kit N	lumber
Used with	Style	С	Size	FIIIISII	Individual	Bulk Packed
HD All-Plastic Right-Angle	(A)	.250	.250 4-40	Yellow Chromate	5207952-1	—
Plugs and Receptacles	(A)	6.35	4-40	Clear Chromate	5207952-3	—
HDE Metal-Shell or All-Plastic	(B)	.250	4-40	Yellow Chromate	5745563-1	5745563-1
Plugs and Receptacles	(D)	6.35	4-40	Clear Chromate	5745563-3	5745563-4
			4-40	Yellow Chromate	5205817-1	5205817-2
HDP or HDF Metal-Shell or All-Plastic Plugs and	(P)	.312	 	Clear Chromate	5205817-3	5205817-4
Receptacles	(B)	7.93		Yellow Chromate	5207872-1	_
·			(Metric)	Clear Chromate	5207872-3	_
HD or HDF All-Plastic Plugs			4-40	Yellow Chromate	5207719-1	5207719-2
and Receptacles with	(B)	.560 14.22	4-40	Clear Chromate	5207719-3	5207719-4
Integral Standoffs	()		2-56*	Clear Chromate	5747223-3	_

 * 2-56 is the male thread size. The female thread size is 4-40.

A Each part is individually bulk packed for multiple kit orders.

Notes: 1. All parts are packaged unassembled.

2. Each female screwlock kit is comprised of two assemblies as illustrated above.

 One or two flat washers may be required for panel thicknesses less than .060 [1.52]. Female screwlocks are not recommended for panel thicknesses greater than .060 [1.52].

4. Female screwlocks with 2-56 thread size are to be used with cable clamps with mounting flanges. Female screwlocks with 4-40 and M3 (Metric) thread sizes can be used with all other cable clamps.

Female screwlocks mate with male screw retainers (pages 146 and 147).

6. Short female screwlocks cannot be used with HDF connectors (pages 125 & 126)

Individual Screwlocks

(Washers and Nuts not included)

Connector	Chula	Dimension	Thread	Finish	Screwlocks		
Used with	Style	С	Size	Finish	Individual	Bulk Packed ^A	
HD All-Plastic Right-Angle	(A)	.250	4-40	Yellow Chromate	5207953-2	_	
Plugs and Receptacles	(A)	6.35	4-40	Clear Chromate	5207953-3	—	
				Clear Chromate	—	5205818-3**	
			4-40	Clear Chilomate	5748558-3	5748558-4	
		.312		Yellow Chromate	5748270-2	5205818-2-	
HDP or HDF Metal-Shell or All-Plastic Plugs and Receptacles	(B)	7.93	M2.6** (Metric)	Clear Chromate	5749765-3	_	
Receptacies			M3*** (Metric)	Clear Chromate	5747404-3	_	
	(Special)	.185 4.70	4-40	Clear Chromate	5747877-3	-	

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△ Each part is individually bulk packed for multiple kit orders.

^{ΔΔ}With captivated star washer. No additional hardware included.

†Part No. 5748270-2 Dimension .158 [4.01]

Dimensions are in inches and

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**M2.6 is the female thread size. The male thread size is 4-40.

***M3 is the female thread size. The male thread size is 4-40.

Note: All part numbers are RoHS compliant.

specified.

Catalog 82068 Revised 4-12 Dimensions are shown for

reference purposes only. Specifications subject

to change.

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Slide Latches

Material and Finish:

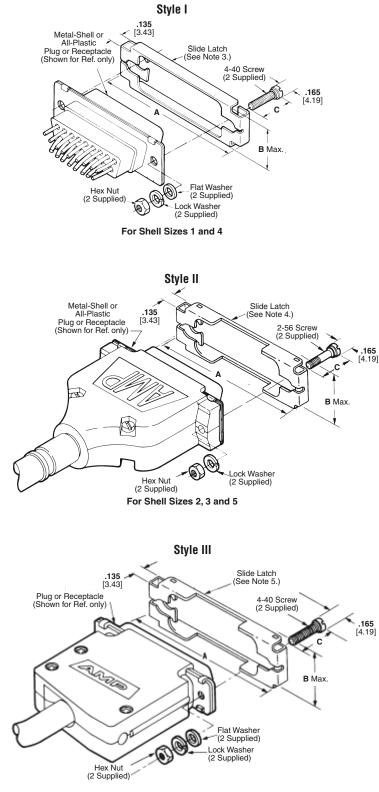
4-40 Screws, Washers and Hex Nuts—Steel, zinc plated yellow chromate

2-56 Screws, Washers and Hex Nuts—Steel, zinc plated clear chromate Slide Latch—Stainless steel

Related Product Data:

Connectors used with: HDE Metal-Shell or All-Plastic pages 112-115 HDF Metal-Shell or All-Plastic pages 125 & 126 HDP Metal-Shell—pages 90-102 HD Board Mount—pages 54-71, 78-85, 87-89 Technical Documents:

Instruction Sheet—408-6551



For Shell Sizes 2, 3 and 5

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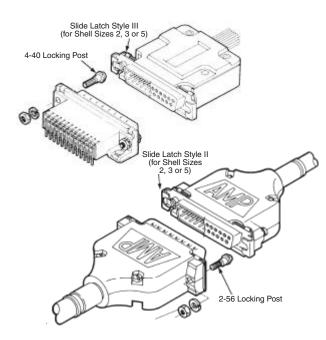
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Slide Latches



Typical Applications of Locking Posts and Slide Latches

Shell	Chule	Dimensions			Slide Latch	Side Latch		
Size	Style	Α	В	С	Individual	Bulk Packed*	Only	
1	I	1.397 35.48	.490 12.45	.415 10.54	5745404-1	_	164890-1	
	П	1.725 43.82	.470 11.94	.547 13.89	5745583-1	_	749027-1	
		1.725 43.82	.470 11.94	.415 10.54	5745583-5	_	749027-1	
2	III	1.725 43.82	.470 11.94	.450 11.43	5745583-7	_	_	
2		1.725 43.82	.470 11.94	.415 10.54	_	5748653-1	_	
		1.725 43.82	.490 12.45	.290 7.37	5749028-1 ⁷	_	_	
		1.725 43.82	.437 11.10	.415 10.54	—	5786138-1 ⁷	_	
0	П	2.265 57.53	.470 11.94	.547 13.89	5745584-1	_	749996-1	
3	111	2.265 57.53	.470 11.94	.415 10.54	5745584-3	_	749996-1	
4	I	2.913 73.99	.490 12.45	.415 10.54	5745407-1	_	164890-4	
5	111	2.819 71.60	.575 14.61	.415 10.54	5745578-3	_	749997-1	

*Each part is individually bulk packed for multiple kit orders.

Notes: 1. All parts are packaged unassembled.

2. Each kit is comprised of a slide latch and two screws, flat washers (if required), lock washers and hex nuts. Style I slide latches are also furnished as part of cable clamp kits (page 142).

3. Style I slide latches can be used with cable clamps that do not extend beyond the front flange of the connector or on connectors without cable clamps.

4. Style II slide latches can be used with any cable clamp that has the mounting ear configuration as shown above.

5. Style III slide latches can be used on connectors without cable clamps or with cable clamps that do not have the mounting ear configuration shown with Style II above.

6. Slide latches mate with locking posts (page 151).

7. No nuts, washers, or lockwashers.

Note: All part numbers are RoHS compliant.

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Cable Connectors



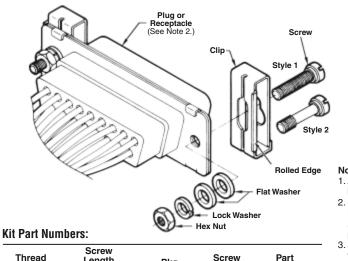
Slide Latch Clip Assembly for **Unfiltered Mating Half**

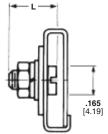
Material and Finish:

Screw, Washers and Hex Nut-Cold rolled steel, zinc plated clear chromate Clip—Stainless steel

Technical Documents:

Instruction Sheet-408-7785





Notes:

- 1. All parts are packaged unassembled
- 2. Slide Latch Clip Assemblies can be used on any Subminiature D AMPLIMITE HD-20 metal-shell plug or receptacle.
- Slide Latch Clip Assemblies mate with Locking Post Assemblies shown below.

Cable Connectors

Thread Size	Length	Pkg.	Screw Style	Part No.
4-40	.415	Unit [†]	-1	5206942-1
4-40	10.54	Bulk	I	5206942-2
2-56	.547	Unit	2	5748078-1**
2-50	13.89		2	

[†] Two assemblies per package.

* Each part is individually bulk packed for multiple kit orders.

** Designed for cable clamps with mounting ears. No flat washers included.

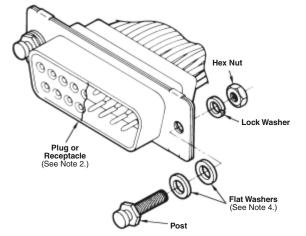
Locking Post Assembly

Material and Finish:

All Parts-Cold rolled steel, zinc plated clear or yellow chromate

Related Product Data:

Connectors used with: HDE Metal-Shell or All-Plasticpages 112-115 HDF Metal-Shell or All-Plasticpages 125 & 126 HDP Metal-Shell—pages 90-102 HD Board Mount-pages 54-71, 78-85, 87-89 Instruction Sheets-408-6551 408-7785



Thread Size	Locking Post	Dimer		Locking Po (See	st Kit Number Note 4)	
Size	Finish	A B		Individual	Bulk Packed*	
	Yellow Chromate	.410 10.41	.110 2.79	5206514-1	5206514-3	
4-40	Clear Chromate	.410 10.41	.110 2.79	5206514-4	—	
	Yellow Chromate	.560 14.22	.110 2.79	5206514-6	5206514-7	
2-56	Yellow Chromate	.615 15.62	.172 4.37	5747242-1	_	

*Each part is individually bulk packed for multiple kit orders.

Note: All part numbers are RoHS compliant.

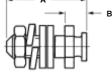
Catalog 82068 Revised 4-12

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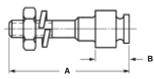
Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in inches and millimeters unless otherwise specified. USA: +1 (800) 522-6752

Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999



Part No. 206514-1



Part No. 747242-1

Notes:

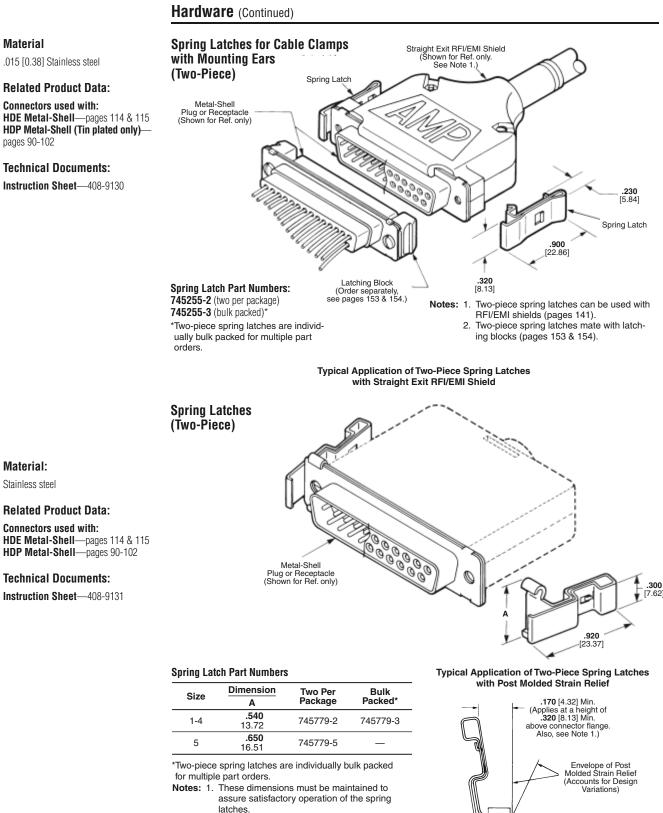
- 1. All parts are packaged unassembled.
- 2. Each kit is comprised of two complete assemblies, as illustrated above.
- 3. For front panel mounting, it is recommended that a shim be used between the connector flange and panel to prevent bowing of the flange.
- 4. Locking posts with 2-56 thread size are to be used with cable clamps with mounting flanges. Locking posts with 4-40 thread size can be used with all other cable clamps
- 5. Locking posts mate with slide latches (page 149).

UK: +44 (0) 800-267666

France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999

China: +86 (0) 400-820-6015





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Note: All part numbers are RoHS compliant.

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.220 ± .015

[5 59 ± .381] (See Note 1.)

> UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015

Metal-Shell Plug or

Receptacle (Shown for Ref. only)

2. Two-piece spring latches mate with latching blocks (pages 153 & 154).

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Latching Blocks

with Threaded Hole

Material and Finish:

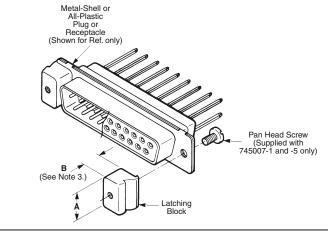
Latching Blocks—Zinc Pan Head Screws—Steel, zinc plated

Related Product Data:

Connectors used with: HDE Metal-Shell or All-Plastic pages 112-115 HDF Metal-Shell or All-Plastic pages 125 & 126 HDP Metal-Shell—pages 90-102 HD Board Mount—pages 54-71, 78-85, 87-89 Mating/Panel Mounting—page 136

Technical Documents:

Instruction Sheet—408-9128



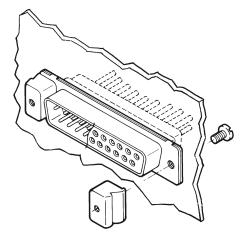
Shell (No. of	Dimensions		Panel	Thread	Rear-Panel Latching Block Part No.		Front-Panel Latching Block Part No.			
Contact Pos.)	Α	в	Thickness	Size	Individual	Bulk Packed*	Individual	Bulk Packed*		
	.400	.190	.060	M3 (Metric)	_	745403-2	_	_		
	10.16	4.83	1.52 -	4-40	745403-8	—		_		
1 thru 4 (9 thru 37)	.400 10.16	.220 5.59	.030 0.76	4-40	747717-2	—	—	_		
,				M3 (Metric)	_		5745007-1	_		
	.400 10.16					_	208101-1	208101-2		
	10.10	0.00		4-40	_	—	208101-8	208101-9		
5 (50)	.530 13.46	.250 6.35	—	4-40		—	1-208101-1	_		
*Pulk pook	*Pull poled for multiple part orders									

*Bulk packed for multiple part orders.

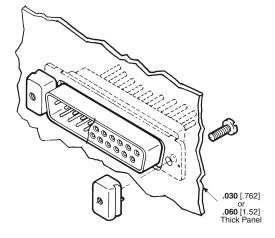
**Individual kits contain two latching blocks per package.

Notes: 1. All parts are packaged unassembled.

- 2. Each front panel latching block kit is comprised of two latching blocks. Two pan head screws of the appropriate length and thread size to be supplied by customer.
- B dimension .250 [6.35] is for connector flange mounting, .220 [5.59] is for use with .030 [0.76] thick panels, and .190 [4.83] is for use with .060 [1.52] thick panels.
- 4. Latching blocks mate with spring latches (page 152).







Typical Application of Rear-Panel Mounted Subminiature D Connector using Rear-Panel Latching Blocks Cable Connectors

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Note: All part numbers are RoHS compliant.

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Material

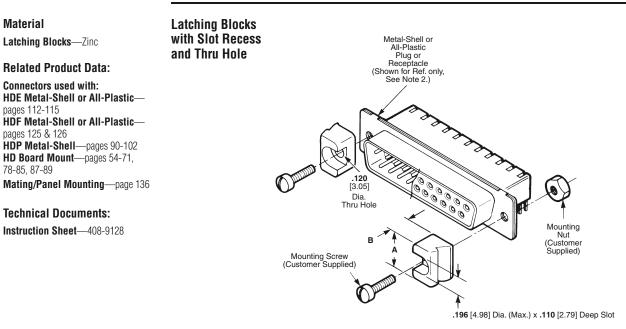
pages 112-115

pages 125 & 126

78-85, 87-89

Cable Connectors

Hardware (Continued)



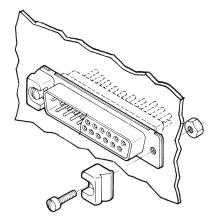
Shell	Dimensions A B		Panel	Rear-Panel Latc	hing Block Part No.	Front-Panel Latching Block Part No	
(No. of Contact Pos.)			Thickness	Individual	Bulk Packed*	Individual	
		.160 4.06	.090 2.29	747080-2	_	_	
1 thru 4 (9 thru 37)	.400 10.16	.190 4.83	.060 1.52	745245-2	745245-3	_	
		.250 6.35	_		_	745286-2	
5 (50)	.530 13.46	.190 4.83	.060 1.52	_	—	745245-5	

*Bulk packed for multiple part orders.

**Individual kits contain two latching blocks per package.

Notes: 1. Mounting screws and nuts are to be supplied by Customer.

- 2. These latching blocks allow mounting screws to be installed thru the front of the block and to be screwed into the bracket of a right-angle connector, a fixed insert in a connector mounting flange, or a nut behind the connector mounting flange (as illustrated above).3. Latching blocks mate with spring latches (page 152).



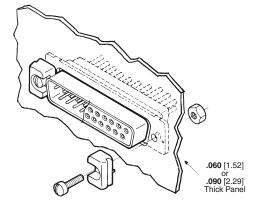
Typical Application of Front-Panel Mounted Subminiature D Connector using Front-Panel Latching Blocks

Dimensions are shown for

reference purposes only.

Specifications subject

to change.



Typical Application of Rear-Panel Mounted Subminiature D Connector using Rear-Panel Latching Blocks

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Note: All part numbers are RoHS compliant.

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Dimensions are in inches and

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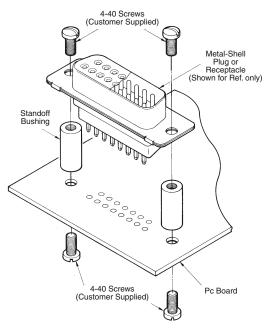
Standoff Bushings

Material:

Aluminum

Related Product Data:

Connectors used with: HD Straight Posted pages 76-85, 87-89



Keying Plug (for Size 20 Socket Contacts)

Material:

Polyphenylene oxide

Related Product Data:

Connectors used with: All HDE, HDP and HD Receptacles with Socket Contacts

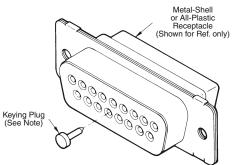
Keying Plug

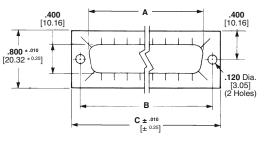
499712-1 AMP-LATCH (electrical connectors) can be used on HD22 Socket Contacts

EMI/RFI Gaskets

Material and Finish:

Brass, .006 [0.15] thick; bright tin plated







Shell Size		Dimensions		Gasket
(No. of Contact Pos.)	Α	В	С	Part No.
1	.746	.984	1.220	5747024-3
(9)	18.95	24.99	30.99	
2	1.074	1.312	1.555	5747025-3
(15)	27.28	33.32	39.50	
3	1.614	1.852	2.100	745776-4
(25)	41.00	47.04	53.34	
4	2.266	2.500	2.730	745777-4
(37)	57.56	63.50	69.34	

Note: All part numbers are RoHS compliant.

Dimensions are shown for

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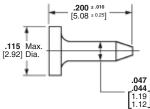
4-40 Threads (thru)

Kit Numbers:

.250 [6.35]

205933-3 (two bushings per package)

205933-4 (bulk packed)* *Parts are individually bulk packed for multiple part orders.



Part Number: 206509-1 Notes: 1. Keying plug is installed taper-end first into front of receptacle. 2. Sold individually.



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