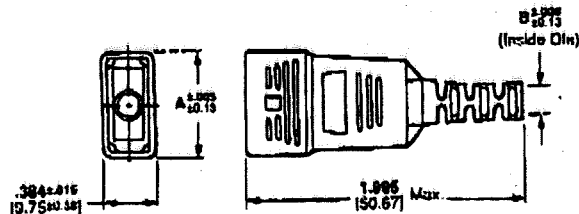
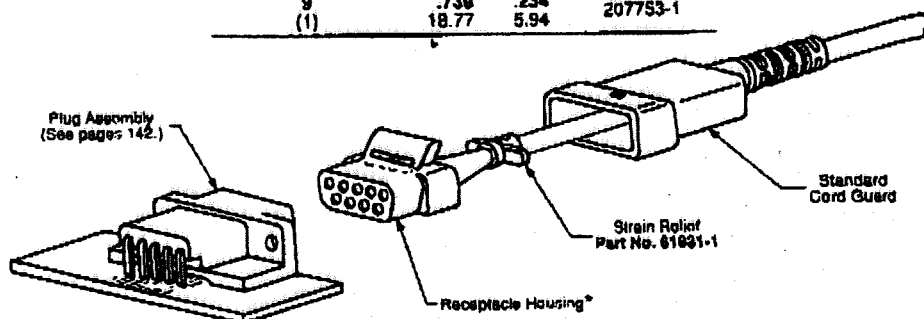


AMPAMPLIMITE
Subminiature D ConnectorsCatalog 82068
Revised 9-96**HDJ-20 All-Plastic Jacketed Cable Connectors
(for Crimp Snap-In Contacts) (Continued)****Standard Cord Guards**

Material—Black thermoplastic

9 Position

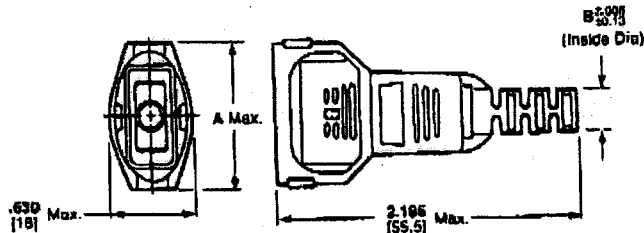
No. of Contact Positions (Shell Size)	Dimensions		Cord Guard Part No.
	A	B	
9 (1)	.730 18.77	.294 5.94	207753-1



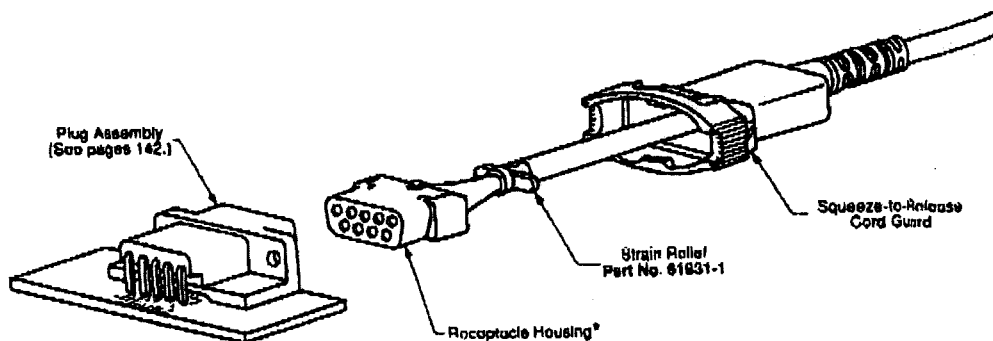
*Standard Cord Guards also can be used on plug housings (page 99).

Typical Application of HDJ-20 Jacketed Cable Connector using Standard Cord Guard**Squeeze-to-Release
Cord Guards**

Material—Black thermoplastic

9 Position

No. of Contact Positions (Shell Size)	Dimensions		Cord Guard Part No.
	A	B	
9 (1)	1.055 26.8	.200 5.08	745002-1
		.265 6.73	745002-2



*Squeeze-to-Release Cord Guards also can be used on plug housings (page 99).

Typical Application of HDJ-20 Jacketed Cable Connector using Squeeze-to-Release Cord Guard

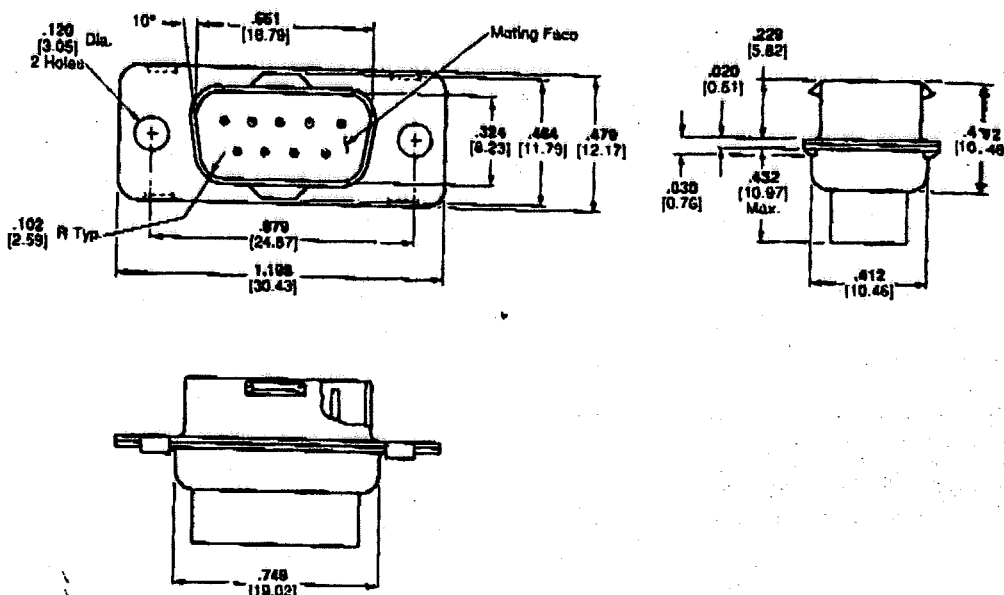
AMP

AMPLIMITE
Subminiature D Connectors

Catalog 8206B
Revised 9-96

HDJ-20 All-Plastic Jacketed Cable Connector (for Crimp Snap-In Contacts)

Plug Housing
HDP-20
9-Position
Part No. 745018-1
(Used with HDJ-20 Receptacle
Part No. 207752-1)



Receptacle Housings

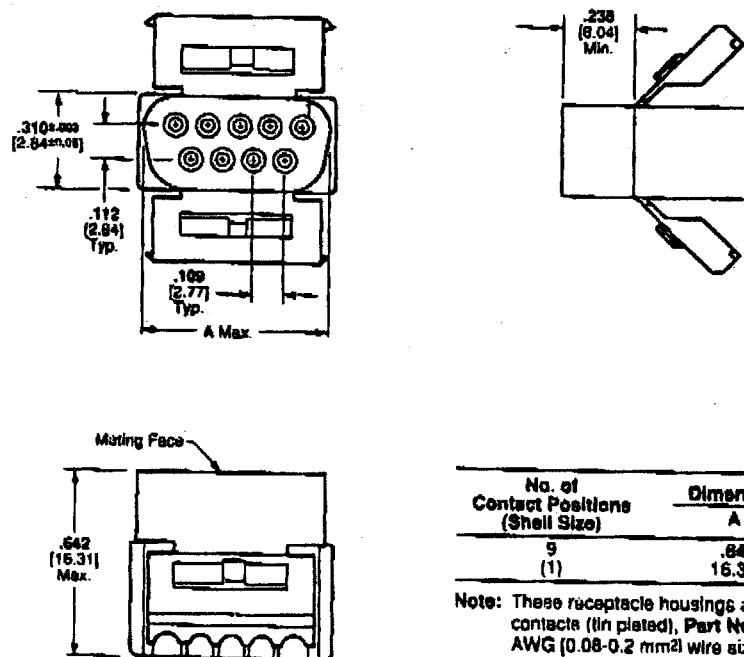
Material—94V-0 rated thermoplastic, black

Related Product Data:

Contacts 20 DF (Precision Formed)—pages 50 & 51

Mateable Connectors:
HDJ-20 PCB Plugs—page 142

9 Position



No. of Contact Positions (Shell Size)	Dimension A	Receptacle Part No.
9 (1)	.642 16.31	207752-3

Note: These receptacle housings accept size 20 DF pin contacts (tin plated), Part No. 1-86505-4 for 28-24 AWG (0.08-0.2 mm²) wire sizes and Part No. 1-86504-4 for 24-20 AWG (0.2-0.5 mm²) wire sizes. For computer applications, AMP recommends the use of gold plated socket contacts. (See pages 50 and 51.)

Strain Relief

Material—Steel
Part No. 81831-1
(for .150 (3.81) Max. Ins. Dia.)



Associated Connectors

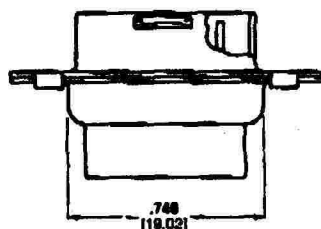
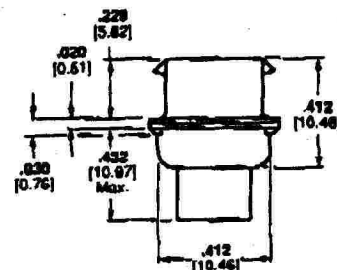
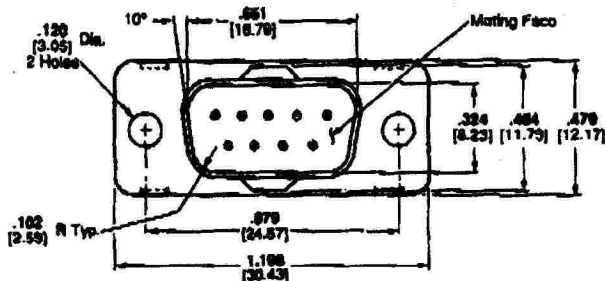
AMP

AMPLIMITE
Subminiature D Connectors

Catalog 82068
Revised 9-86

HDJ-20 All-Plastic Jacketed Cable Connector (for Crimp Snap-In Contacts)

Plug Housing
HDP-20
9-Position
Part No. 745018-1
(Used with HDJ-20 Receptacle
Part No. 207752-1)



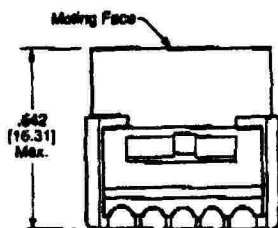
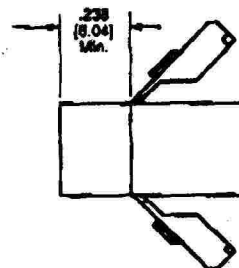
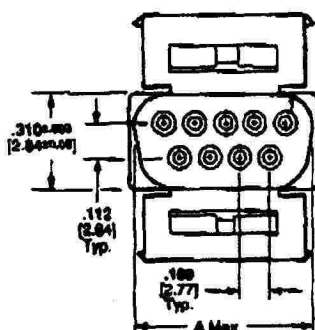
Receptacle Housings

Material—94V-0 rated thermoplastic,
black

Related Product Data:

**Contacts 20 DF (Precision
Formed)**—pages 50 & 51
Mateable Connectors:
HDJ-20 PCB Plugs—page 142

9 Position

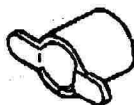


No. of Contact Positions (Shell Size)	Dimension A	Receptacle Part No.
9 (1)	.542 16.31	207752-3

Note: These receptacle housings accept size 20 DF pin contacts (tin plated), Part No. 1-66605-4 for 28-24 AWG [0.08-0.2 mm²] wire sizes and Part No. 1-66604-4 for 24-20 AWG [0.2-0.6 mm²] wire sizes. For computer applications, AMP recommends the use of gold plated socket contacts. (See pages 50 and 51.)

Strain Relief

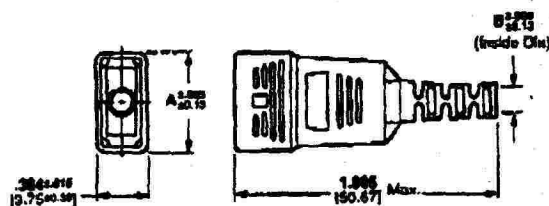
Material—Steel
Part No. 81831-1
(for .150 [3.81] Max. Ins. Dia.)



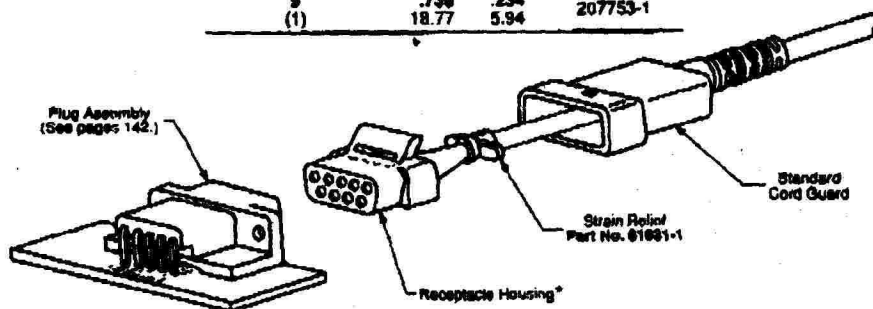
Associated Connectors

AMP**AMPLITE**
Subminiature D ConnectorsCatalog 82068
Revised 9-96**HDJ-20 All-Plastic Jacketed Cable Connectors**
(for Crimp Snap-In Contacts) (Continued)**Standard Cord Guards**

Material—Black thermoplastic

9 Position

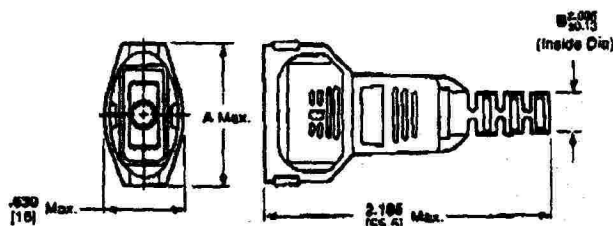
No. of Contact Positions (Shell Size)	Dimensions		Cord Guard Part No.
	A	B	
9 (1)	.739 18.77	.234 5.94	207753-1



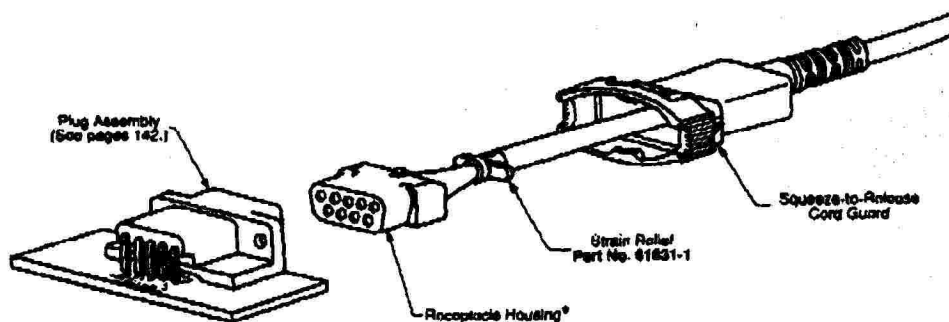
*Standard Cord Guards also can be used on plug housings (page 99).

Typical Application of HDJ-20 Jacketed Cable Connector using Standard Cord Guard**Squeeze-to-Release**
Cord Guards

Material—Black thermoplastic

9 Position

No. of Contact Positions (Shell Size)	Dimensions		Cord Guard Part No.
	A	B	
9 (1)	1.065 26.8	.300 6.06	745002-1
		.265 6.73	745002-2



*Squeeze-to-Release Cord Guards also can be used on plug housings (page 99).

Typical Application of HDJ-20 Jacketed Cable Connector using Squeeze-to-Release Cord Guard

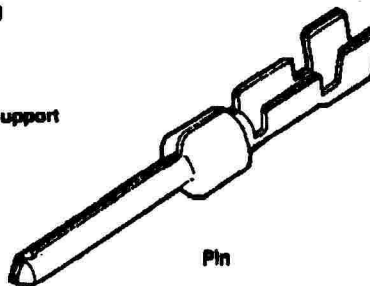
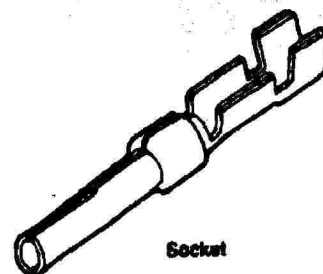
AMPAMPLITE
Subminiature D ConnectorsCatalog 82068
Revised 9-96**Contact Size 20 DF**
Pin Diameter .040 [1.02]**Material and Finish:****Pin**—Brass**Socket**—Phosphor bronze**Plated**

A—Select—Gold flash over nickel on entire contact, with additional .00030 (0.00076) gold on mating end
B—Duplex—.00030 (0.00076) gold on mating end, tin-lead on termination end, with entire contact nickel underplated
C—Gold flash over nickel on entire contact
D—Duplex—Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

Related Product Data:**Performance Characteristics**—page 5**Connectors used with:****HDP**—pages 42-47**Application Tooling**—pages 55 & 56**Technical Documents:****Product Specification**—108-40005

Application Specifications—
 114-10000
 114-40030

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

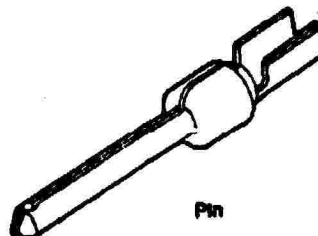
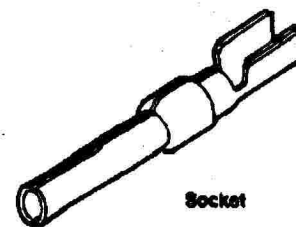
Crimp Snap-In Contacts**With Insulation Support****Pin****Socket**

Wire Size Range AWG [mm ²]	Ins. Dia. Max.	Contact Finish (Plating Code)	Contact Part Numbers				Hand Tools for Loose Form Contacts		
			Pin		Socket		PRO-CRIMPER II Hand Tool	CERTI-CRIMP Hand Tool (Color Code)	Applicators* for Strip Form Contacts
			Strip Form	Loose Form	Strip Form	Loose Form			
20-24 0.08-0.2	.040 1.02	A	66507-3	66507-4	66505-3	66505-8	58448-2	90302-1 (Blue Dot)	488423-4** 466901-1***
		B	3-66507-0	5-66507-7	6-66505-0	8-66505-2			
		C	66807-4	1-66507-0	66505-4	1-66505-0			
		D	3-66507-1	5-66507-8	5-66505-7	5-66505-8			
	.068 1.52	A	66882-3	66882-4	66883-2	66883-4	—	90374-1 (Black Dot)	488963-1***
		B	66882-8	1-66882-1	1-66883-0	—			
		C	66882-8	—	66883-7	—			
		D	66882-8	—	66883-7	—			
26-22 0.18-0.4	.050 1.27	A	745254-2	745254-5	745253-2	745253-6	—	90408-1 (Yellow Dot)	466968-1***
		B	1-745254-4	1-745254-6	1-745253-4	1-745253-6			
		C	745254-3	745254-7	745253-3	745253-7			
		D	1-745254-1	1-745254-3	1-745253-1	1-745253-3			
	.068 1.52	A	66506-3	66506-8	66504-3	66504-9	58448-2	90302-1 (Red Dot)	488422-4** 466900-1***
		B	2-66506-4	5-66506-7	5-66504-5	6-66504-0			
		C	66506-4	1-66506-0	66504-4	1-66504-0			
		D	2-66506-5	5-66506-9	5-66504-8	6-66504-7			

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

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

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

Without Insulation Support**Pin****Socket****Insertion/Extraction Tool**
No. 91285-1

This tool includes interchangeable tips to insert/extract:

Size 22, 28-22 AWG
 (0.4, 0.08-0.04 mm²) Crimp Contacts
 (Instruction Sheet—408-9404)

Wire Size Range AWG [mm ²]	Ins. Dia. Max.	Contact Finish (Plating Code)	Contact Part Numbers		Hand Tools for Loose Form Contacts	
			Pin Strip Form	Socket Strip Form	CERTI-CRIMP Hand Tool (Color Code)	Applicators* for Strip Form Contacts
28-24 0.08-0.2	.068 1.73	A	205310-2	205311-3	90265-1 (Blue Dot)	466903-1***
		B	2-205310-5	2-205311-1		
		C	205310-4	205311-4		
		D	205310-2	205311-3		
24-20 0.2-0.6	.068 1.73	A	2-205202-5	2-205201-5	90285-1 (Red Dot)	466902-1***
		B	2-205202-5	2-205201-5		
		C	205202-6	205201-6		
		D	2-205202-2	2-205201-2		
22-18 0.4-0.6	.068 1.73	A	745229-2	745230-2	90405-1 (Green Dot)	466966-1***
		B	1-745229-1	1-745230-1		
		C	745229-5	745230-5		
		D	745229-8	745230-8		

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 AMP Tooling Assistance Center at 1-800-722-1111.

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

For drawings, technical data or samples, contact your AMP sales engineer or call the AMP Product Information Center: 1-800-522-6752. Dimensions are in inches and millimeters unless specified otherwise. Values in brackets are metric equivalents. Specifications subject to change. Consult AMP Incorporated for latest specifications.

AMP

AMPLITE
Subminiature D Connectors

Catalog 82068
Revised 9-86

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 5

Connectors used with:

HDP—pages 42 & 43

Technical Documents:

Product Specification—108-40005

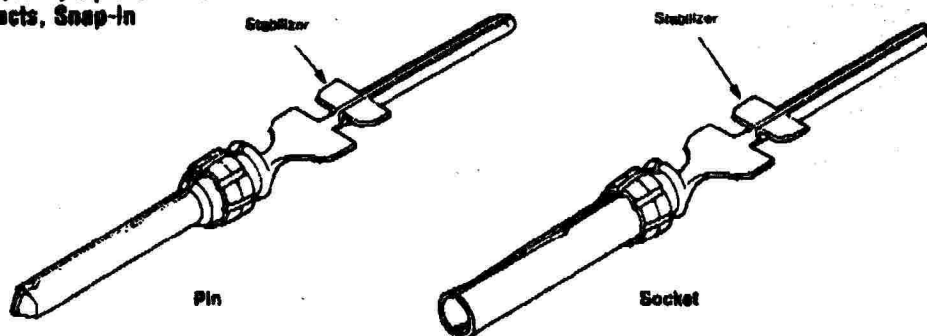
Application Specifications—

114-10000

114-40030

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

.025 (0.64) Square Posted
Contacts, Snap-In



Contact Finish (Plating Code)	Loose Form Contact Numbers							
	.125 (3.18) Post Length*		.188 (4.78) Post Length*		.427 (10.86) Post Length*		.851 (16.54) Post Length*	
	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
A	745287-4	745288-4	2-745287-0	2-745288-0	745287-8	745288-8	1-745287-2	1-745288-2
B	745287-2	—	1-745287-8	1-745288-8	745287-6	745288-6	1-745287-0	1-745288-0

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

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 5

Connectors used with:

HDP—pages 42-47

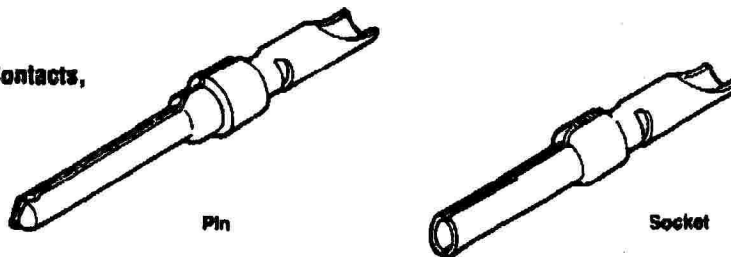
Technical Documents:

Product Specification—108-40005

Application Specification—

114-40030

Solder Cup Contacts,
Snap-In



18 AWG Max. Wire (.045 (1.17) Max. Conductor Diameter)

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

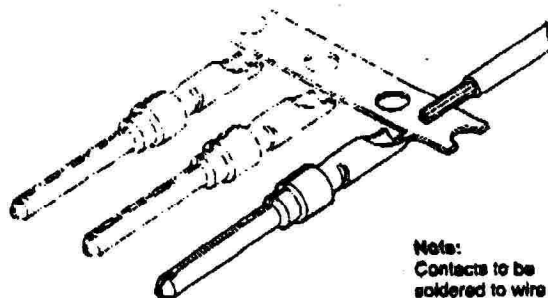
Insertion/Extraction Tool
No. 91285-1

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)



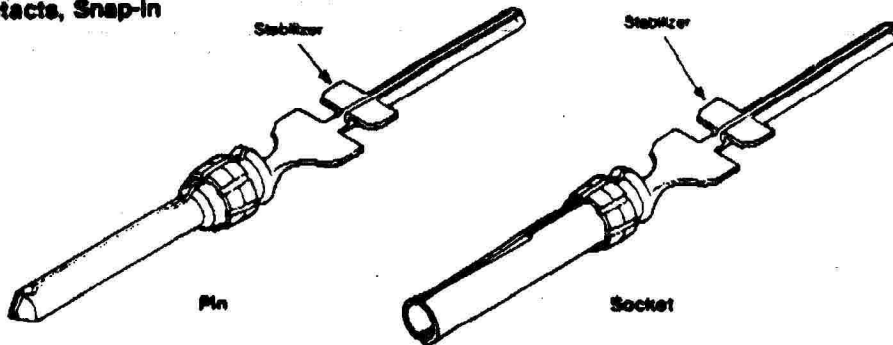
Note:
Contacts to be
soldered to wire
before being
inserted into
housing

AMP

Specifications subject to change
For latest design specifications...
1-800-522-6752

HDP-20 Connector Contacts, Precision Formed

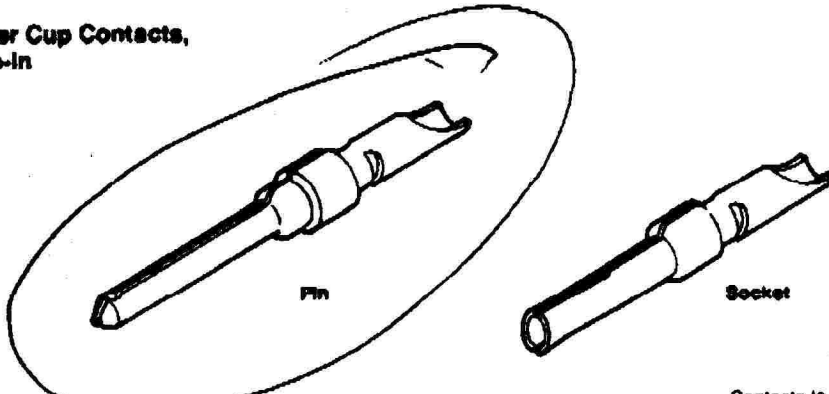
.025 Square Posted Contacts, Snap-In



Contact Finish (Plating Code)	Loose Form Contact Numbers							
	.125 Post Length*		.188 Post Length*		.425 Post Length*		.851 Post Length*	
	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
A	1-66481-7	1-66482-7	3-66481-5	3-66482-5	1-66481-9	1-66482-9	2-66481-1	2-66482-1
B	1-66481-8	1-66482-8	3-66481-4	3-66482-4	1-66481-8	1-66482-8	2-66481-0	2-66482-0

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

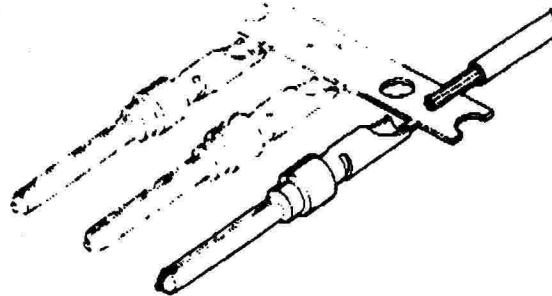
Solder Cup Contacts, Snap-In



18 AWG Max. Wire

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

Contacts to be
soldered to wire
before being
inserted into
housing



Contact Size 20 DF Pin Diameter .040

Material and Finish:

Pin—Brass

Socket—Phosphor bronze

Plated:

A—Select—Gold flash over
on entire contact, with additional
.000030 gold on mating end
B—Gold flash over nickel on
contact

Related Product Data:

Connectors used with:
HDP-page 2192

Technical Documents-
pages 2256 & 2259

Contact Size 20 DF Pin Diameter .040

Material and Finish:

Pin—Brass

Socket—Phosphor bronze

Plated—Gold flash over nickel
entire contact, with additional
.000030 gold on mating end

Related Product Data:

Connectors used with:
HDP-pages 2192-2194

Technical Documents-
pages 2256 & 2259

Insertion/Extraction Tool No. 91285-1

This tool includes interchangeable
tips to Insert/Extract:

Size 22, 26-22 AWG Crimp
Contacts

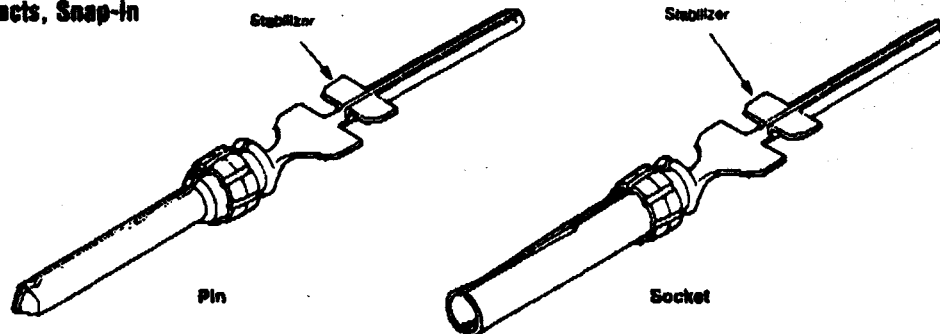
Size 20, 26-20 AWG Crimp
Solder Cup Contacts

Size 20, Posted Contacts

AMP**AMPLIMITE**
Subminiature D ConnectorsCatalog 82068
Revised 9-96**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 5**Connectors used with:****HDP**—pages 42 & 43**Technical Documents:****Product Specification**—108-40005**Application Specifications**—

114-10000

114-40030

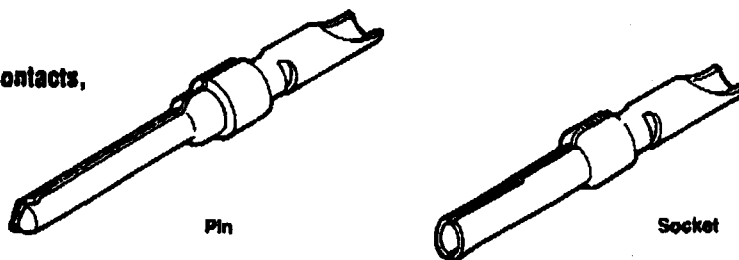
Note: Instruction Sheets for AMP
Tooling are packaged with the tooling.
For additional information call the
Tooling Assistance Center:
1-800-722-1111.**.025 (0.64) Square Posted**
Contacts, Snap-In

Contact Finish (Plating Code)	Loose Form Contact Numbers							
	.125 (3.18) Post Length*		.188 (4.78) Post Length*		.427 (10.85) Post Length*		.851 (16.54) Post Length*	
	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
A	745287-4	745288-4	2-745287-0	2-745288-0	745287-8	745288-8	1-745287-2	1-745288-2
B	745287-2	—	1-745287-8	1-745288-8	745287-6	745288-6	1-745287-0	1-745288-0

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

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 5**Connectors used with:****HDP**—pages 42-47**Technical Documents:****Product Specification**—108-40005**Application Specification**—

114-40030

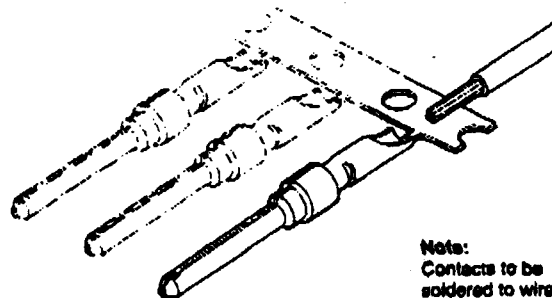
Solder Cup Contacts,
Snap-In**18 AWG Max. Wire (.045 (1.17) Max. Conductor Diameter)**

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

Insertion/Extraction Tool
No. 01285-1This 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)

**Note:**
Contacts to be
soldered to wire
before being
inserted into
housing

Cable Connectors



AMPLIMITE
Subminiature D Connectors

Catalog 82068
Revised 9-96

HDJ-20 All-Plastic Plug Assemblies with Right-Angle Posted Contacts (for Pc Board Mounting and Cord Guard Latch) .590 Mount

Plug Assemblies

9 Position

Material and Finish:

Housing and Post Spacer—Black thermoplastic, 94V-2 rated

Pin Contacts (Posted)—Brass, plated as follows:

A—000030 (0.00075) min. gold on mating end, tin-lead on solder posts, entire contact nickel underplated
B—Gold flash on mating end, tin-lead on solder posts, entire contact nickel underplated

Related Product Data:

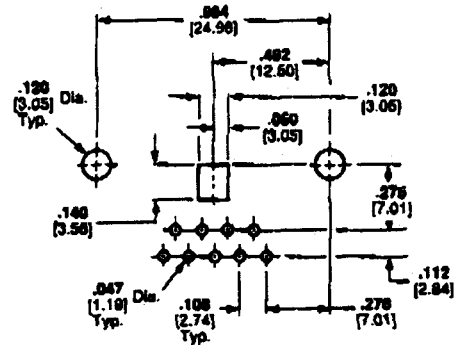
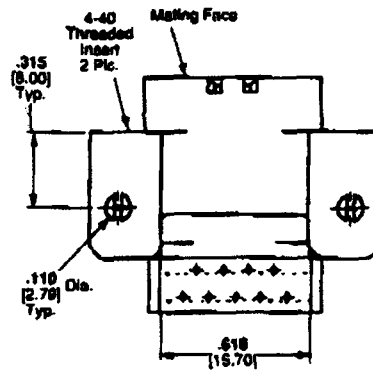
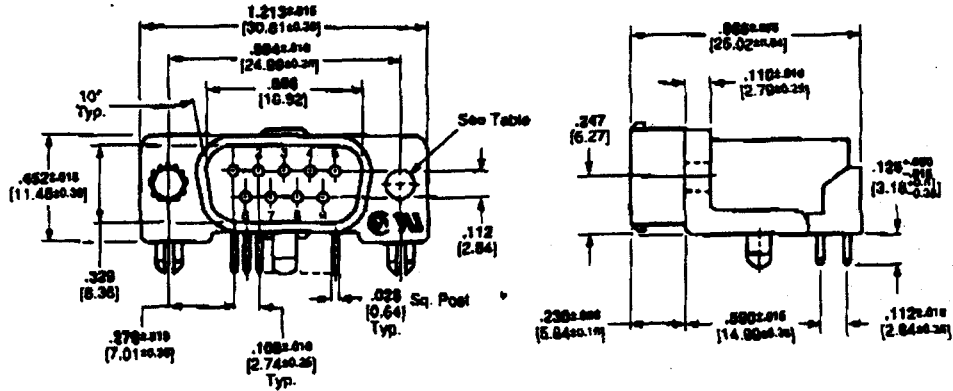
Mateable Connectors:

HDJ-20 Receptacles

HDP-20 Receptacles

HDF-20 Receptacles

HDE-20 Receptacles



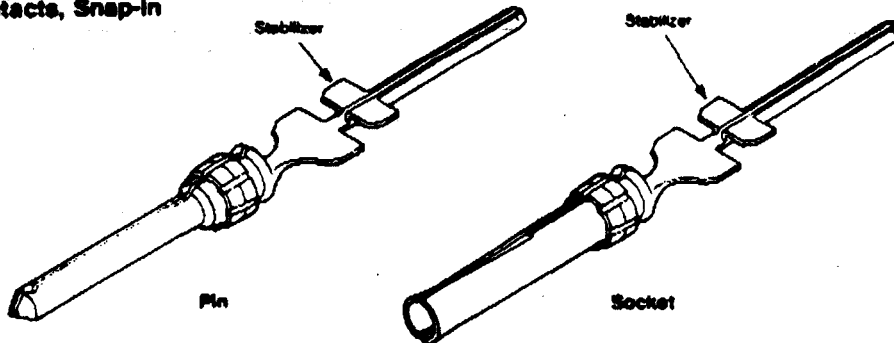
Recommended Pc Board Hole Pattern

Pinning	With 125 [3.18] Dia. Mounting Holes	With 4-40 Inserts
A	746001-2	746001-7
B	746001-3	—

Specifications subject to change
For latest design specifications...
1-800-522-6752

HDP-20 Connector Contacts, Precision Formed

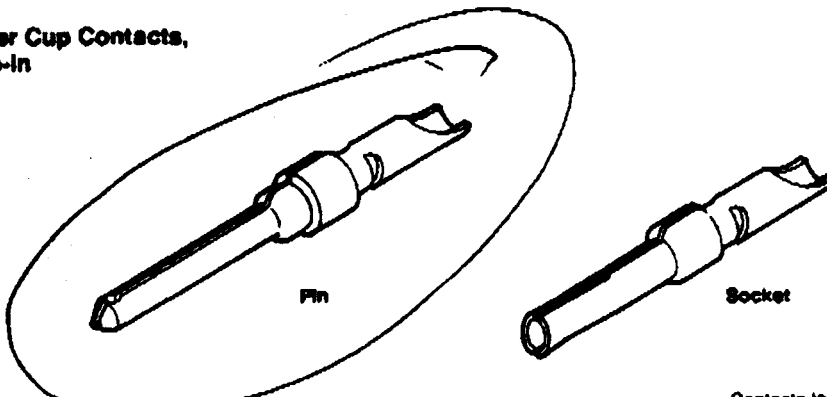
.025 Square Posted Contacts, Snap-In



Contact Finish (Plating Code)	Lease Form Contact Numbers							
	.125 Post Length*		.188 Post Length*		.425 Post Length*		.551 Post Length*	
	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
A	1-66481-7	1-66482-7	3-66481-5	3-66482-5	1-66481-9	1-66482-9	2-66481-1	2-66482-1
B	1-66481-6	1-66482-6	3-66481-4	3-66482-4	1-66481-8	1-66482-8	2-66481-0	2-66482-0

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

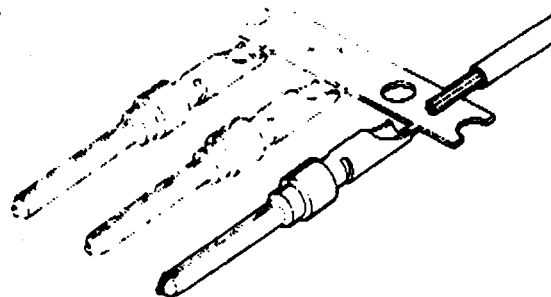
Solder Cup Contacts, Snap-In



16 AWG Max. Wire

Strip Form Contact Number		Lease Form Contact Number	
Pin	Socket	Pin	Socket
66570-2	66569-2	66570-3	66569-3

Contacts to be
soldered to wire
before being
inserted into
housing



Contact Size 20 DF Pin Diameter .040

Material and Finish:

Pin—Brass

Socket—Phosphor bronze

Plated:

A—Select—Gold flash over
on entire contact, with additional
.000030 gold on mating end
B—Gold flash over nickel on
contact

Related Product Data:

Connectors used with:

HDP—page 2192

Technical Documents—
pages 2256 & 2259

Contact Size 20 DF Pin Diameter .040

Material and Finish:

Pin—Brass

Socket—Phosphor bronze

Plated—Gold flash over nickel
entire contact, with additional
.000030 gold on mating end

Related Product Data:

Connectors used with:

HDP—pages 2192-2194

Technical Documents—
pages 2256 & 2259

Insertion/Extraction Tool No. 91285-1

This tool includes interchangeable
tips to Insert/Extract:

Size 22, 26-22 AWG Crimp
Contacts

Size 20, 26-20 AWG Crimp
Solder Cup Contacts

Size 20, Posted Contacts

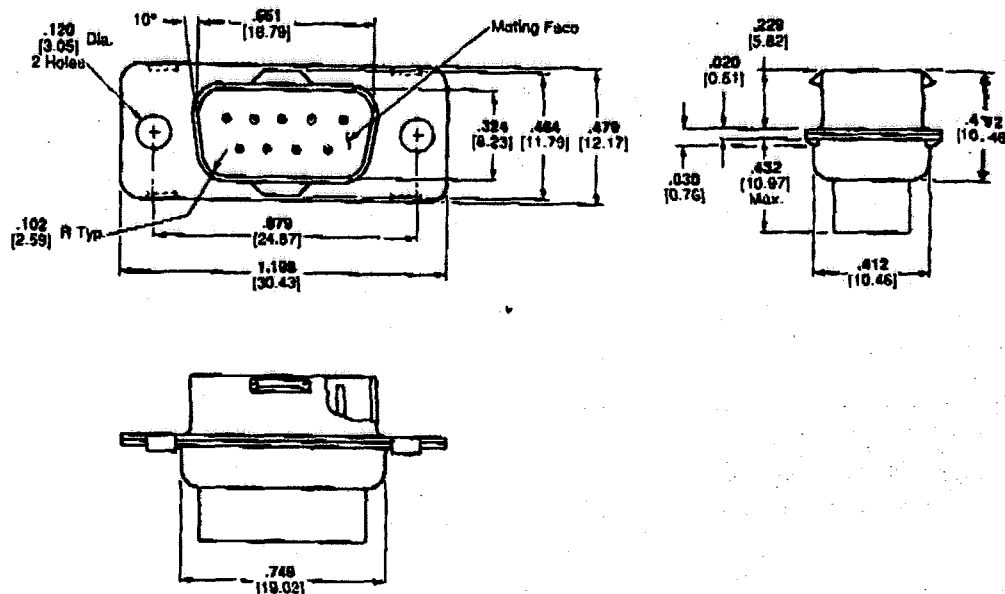
AMP

AMPLIMITE
Subminiature D Connectors

Catalog 82068
Revised 1-86

HDJ-20 All-Plastic Jacketed Cable Connector (for Crimp Snap-In Contacts)

Plug Housing
HDP-20
9-Position
Part No. 745018-1
(Used with HDJ-20 Receptacle
Part No. 207752-1)



Receptacle Housings

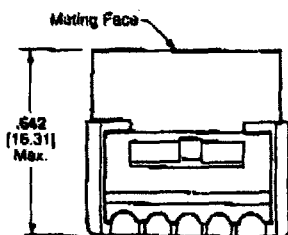
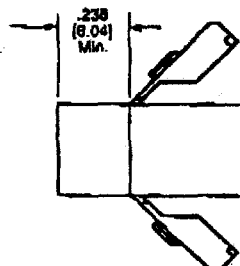
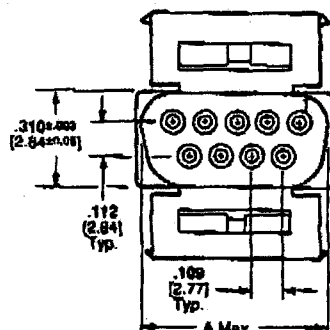
Material—94V-0 rated thermoplastic,
black

Related Product Data:

**Contacts 20 DF (Precision
Formed)**—pages 50 & 51

Mateable Connectors:
HDJ-20 PCB Plugs—page 142

9 Position



No. of Contact Positions (Shell Size)	Dimension A	Receptacle Part No.
9 (1)	.642 16.31	207752-3

Note: These receptacle housings accept size 20 DF pin contacts (tin plated), Part No. 1-66505-4 for 26-24 AWG (0.08-0.2 mm²) wire sizes and Part No. 1-66504-4 for 24-20 AWG (0.2-0.5 mm²) wire sizes. For computer applications, AMP recommends the use of gold plated socket contacts. (See pages 50 and 51.)

Strain Relief

Material—Steel
Part No. 81831-1
(for .150 [3.81] Max. Ins. Dia.)



Associated Connectors