



# IDC D-SUB CONNECTORS



Active

PRODUCT DRAWING  
English

3D PDF

TE CONNECTIVITY (TE)

## 09 POS HDF PLUG, MS, LEAD FREE

AMPLIMITE | HDF for Flat Ribbon Cable

1658608-4

TE Internal Number: 1658608-4

Always EU RoHS/ELV Compliant

Connector Style **Plug**

Centerline (in) **.109**

Number of Positions **9**

Number of Rows **2**

Preloaded **Yes**

### Product Drawings

[PLUG ASSEMBLY, FRONT METAL SHELL, THREADED INSERTS, LEAD-FREE, AMPLIMITE HDF](#)

PDF  
English

### CAD Files

[Customer View Model](#)

3D\_STP.ZIP  
English

[Customer View Model](#)

3D\_IGS.ZIP  
English

[Customer View Model](#)

2D\_DXF.ZIP  
English

[3D PDF](#)

PDF  
English

### Catalog Pages/Data Sheets

[AMPLIMITE Subminiature D Connectors - Cable Connectors](#)

PDF  
English

### Product Specifications

Product Specification

[AMPLIMITE HDF-20 Low Profile Connector](#)

PDF  
English

Qualification Test Report

[AMPLIMITE MDF-20 Low Profile Connector](#)

PDF  
Japanese

[AMPLIMITE MDF-20 Low Profile Connector](#)

PDF  
English

[AMPLIMITE MDF-20 Low Profile Connector](#)

TIF  
English

### Product Environmental Compliance

---

**Instruction Sheets**

Instruction Sheet (U.S.)

**Connector-Specific Kit 768349-1 For AMP-LATCH HDF Low-Profile Connectors**PDF  
English

Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

---

Product Type Features	Connector Style	<b>Plug</b>
	Shell Size	<b>1</b>
	Wire/Cable Type	<b>Ribbon Cable</b>
	Protective Cover	<b>With</b>
	Grounding Indents	<b>With</b>
	Shell Type	<b>Front Metal Shell</b>
	Applies To	<b>Cable</b>
	Product Type	<b>Connector</b>
	Profile	<b>Low</b>
	Thread Type	<b>Standard</b>
Grade	<b>Standard</b>	

---

Configuration Features	Number of Positions	<b>9</b>
	Number of Rows	<b>2</b>
	Preloaded	<b>Yes</b>

---

Body Features	Ribbon Cable Centerline Spacing	<b>1.27 mm [ .05 in ]</b>
	Strain Relief Part Number	<b>747275-4</b>
	Shell Plating Finish	<b>Bright</b>
	Shell Material	<b>Steel</b>
	Insert Material	<b>Brass</b>
	Shell Plating Material	<b>Tin</b>
	Cable Exit Angle	<b>90°</b>
	Cover Material	<b>Thermoplastic</b>
Color	<b>Black</b>	

---

Contact Features	Contact Size	<b>20</b>
	Contact Base Material	<b>Phosphor Bronze</b>

Contact Mating Area Plating Thickness (µin)	<b>30</b>
Contact Type	<b>Pin</b>
Contact Mating Area Plating Material	<b>Gold Flash over Palladium Nickel, Gold</b>
Solder Tail Contact Plating Material	<b>Tin over Nickel</b>

Termination Features	Termination Method to Wire/Cable	<b>Insulation Displacement Crimp (IDC)</b>
----------------------	----------------------------------	--

Mechanical Attachment	PCB Mount Retention Type	<b>None</b>
	Threaded Insert Material	<b>Brass</b>
	Mating Connector Lock	<b>With</b>
	Threaded Insert Plating Material	<b>None</b>
	Mounting Angle	<b>Straight</b>
	Mating Connector Lock Type	<b>Threaded Insert, 4-40 UNC</b>

Housing Features	Centerline (in)	<b>.109</b>
	Housing Material	<b>Thermoplastic</b>
	Enclosure	<b>Without</b>
	Housing Color	<b>Black</b>

Dimensions	Wire Range	<b>.08 – .15 mm<sup>2</sup> [ 28 – 26 AWG ]</b>
	Cable Insulation Diameter	<b>.81 – .97 mm [ .032 – .038 in ]</b>

Industry Standards	UL Flammability Rating	<b>UL 94V-0</b>
--------------------	------------------------	-----------------

Packaging Features	Packaging Method	<b>Tube</b>
	Packaging Quantity	<b>40</b>

Other	Optional Cable Stabilizer	<b>747275-4</b>
	Comment	<b>All plug assemblies are supplied with housing and cover preassembled</b>

Product Compliance	<a href="#">Statement of Compliance PDF</a>
	<a href="#">VIEW ALL PRODUCT COMPLIANCE</a>

## CUSTOMERS ALSO BOUGHT


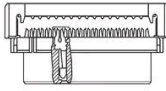
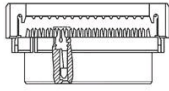
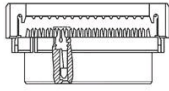
CIRCULAR POWER CONNECTORS

IDC D-SUB CONNECTORS

RIBBON CABLE CONNECTORS

RIBBON CABLE CONNECTORS

CONNECTORS

 <p><b>CPC PLUG ASSEMBLY SIZE 11-8</b> 206460-1</p> <p>Save to List Find Similar Products</p>	 <p><b>09 POS HDF RCPT, MS, LEAD FREE</b> 1658610-4</p> <p>Save to List Find Similar Products</p>	 <p><b>044 2MM 30DP FT</b> 1-111626-0</p> <p>Save to List Find Similar Products</p>	 <p><b>50, 2MM, 30 DP, LEAD FREE</b> 2-111626-3</p> <p>Save to List Find Similar Products</p>
--	--	--	--

Products - 106 Results

[View All](#)

[Compare 0/10](#)

Relation Type ▼


RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS

	<p>Connectors - IDC D-Sub Connectors AMPLIMITE I HDE (IDC) Insulation</p> <p><b>KIT, RCPT, 9P, HDE, SHLD ENCLSR</b> <b>- 1-747943-6</b> TE INTERNAL NUMBER: 1-747943-6</p> <p>✓ Active</p> <p>Always EU RoHS/ELV Compliant</p> <p>Connector Style <b>Receptacle</b></p> <p>Shielded <b>Yes</b></p> <p>Number of Positions <b>9</b></p> <p>Number of Rows <b>2</b></p> <p>Preloaded <b>Yes</b></p>
---	---

RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS

	<p>Connectors - PCB D-Sub Connectors AMPLIMITE I Solder Cup Connectors</p> <p><b>9P HD20 RECEP.HDR STUD UNC EUROST. SMT</b> <b>- 3-1740194-2</b> TE INTERNAL NUMBER: 3-1740194-2</p> <p>✓ Active</p> <p>Always EU RoHS/ELV Compliant</p> <p>Connector Style <b>Receptacle</b></p> <p>Centerline <b>2.74 mm</b></p> <p>Number of Positions <b>9</b></p> <p>Number of Rows <b>2</b></p> <p>Shell Size <b>1</b></p>
---	--

RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS



Connectors - PCB D-Sub Connectors  
AMPLIMITE I SP

## 09 RCPT SP/MS STD - 5205734-1

TE INTERNAL NUMBER: 5205734-1

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Number of Positions **9**

Number of Rows **2**

Shell Size **1**

Contact Shape **Square**

