



# PCB D-SUB CONNECTORS



Active

PRODUCT DRAWING  
English

3D PDF

## TE CONNECTIVITY (TE) 09 PLUG SP/FMS INSRT AMPLIMITE | FSM , SP

747871-8  
TE Internal Number: 747871-8  
Alias ID: 406566315

5 of 6 EU RoHS/ELV Compliant  
[Find Compliant Alternatives](#)

Connector Style **Plug**

Centerline (in) **.108**

Number of Positions **9**

Number of Rows **2**

Shell Size **1**

### Product Drawings

[PLUG ASSEMBLY, SIZE 1, 9 POS, VERTICAL, FRONT SHELL, AMPLIMITE HDP](#)  
PDF  
English

### CAD Files

[3D PDF](#)  
PDF  
English

[Customer View Model](#)  
2D\_DXF.ZIP  
English

[Customer View Model](#)  
3D\_IGS.ZIP  
English

[Customer View Model](#)  
3D\_STP.ZIP  
English

### Product Specifications

Product Specification [AMPLIMITE HD-20 PCB Mounted Connector](#)  
PDF  
English

Application Specification [AMPLIMITE HD-20 Straight Solder Contact Tine, Front Metal Shell, PC Board And Panel Mount Connectors](#)  
PDF  
English

Qualification Test Report [Connector, AMPLIMITE HD-20, Printed Circuit Board Mounted](#)  
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

**Plug**

Shell Size

**1**

	Profile	<b>Standard</b>
	PCB Mounting Orientation	<b>Vertical</b>
	Grounding Straps	<b>Without</b>
	Shell Type	<b>Front Metal Shell</b>
	Grounding Indents	<b>With</b>
	Applies To	<b>Printed Circuit Board</b>
	Sealed	<b>No</b>
	Product Type	<b>Connector</b>
<hr/>		
Configuration Features	Number of Positions	<b>9</b>
	Number of Rows	<b>2</b>
	Preloaded	<b>Yes</b>
<hr/>		
Body Features	Plastic	<b>No</b>
	Color Code	<b>None</b>
	Shell Plating Material	<b>Tin</b>
	Insert Material	<b>Brass</b>
	Shell Material	<b>Carbon Steel</b>
	Post Size	<b>.66 mm [ .026 in ]</b>
<hr/>		
Contact Features	Contact Shape	<b>Round</b>
	Solder Tail Contact Plating Material	<b>Tin over Nickel, Tin-Lead over Nickel</b>
	Contact Base Material	<b>Brass</b>
	Contact Mating Area Plating Thickness (µin)	<b>30</b>
	Contact Mating Area Plating Material	<b>Gold Flash over Palladium Nickel, Gold</b>
<hr/>		
Termination Features	Termination Post Length	<b>3.18 mm [ .125 in ]</b>
	Grounding Clips	<b>Without</b>
<hr/>		
Mechanical Attachment	PCB Mounting Style	<b>Through Hole</b>
	PCB Mount Retention	<b>With</b>
	PCB Mount Retention Type	<b>Mounting Holes</b>
	Mating Connector Lock	<b>With</b>
	Mating Connector Lock Type	<b>Threaded Insert, 4-40 UNC</b>
	Panel Mount Retention	<b>Without</b>
	Mounting Hole Diameter	<b>3.05 mm [ .12 in ]</b>

Threaded Insert Material

**Brass**

Housing Features

Centerline (in)

**.108**

Housing Color

**Black**

Housing Material

**Thermoplastic**

Dimensions

PCB Thickness (Recommended)

**1.57 – 2.36 mm [ .062 – .093 in ]**

Industry Standards

UL Flammability Rating

**UL 94V-0**

Approved Standards

**UL E28476**

Packaging Features

Packaging Method

**Tube**

Packaging Quantity

**17**

Other

Comment





**Plugs are preloaded with size 20 DF posted pin contacts**

Product Compliance

[Statement of Compliance PDF](#)

[VIEW ALL PRODUCT COMPLIANCE](#)

## CUSTOMERS ALSO BOUGHT

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RELATIONSHIP

## Mating Products

Used to identify Mating Parts

[See All Mating Products](#)



PRODUCT - MATING PRODUCTS

Connectors - IDC D-Sub Connectors  
AMPLIMITE I HDE (IDC) Insulation

**09 HDE MS RCPT, 22-26,  
LEAD FREE - 1-745491-7**

TE INTERNAL NUMBER: 1-745491-7  
ALIAS ID: AMP-1-0745491-7, E48286-000

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Number of Positions **9**

Number of Rows **2**

Preloaded **Yes**

Contact Size **20**



RELATIONSHIP

## Mating Products

Used to identify Mating Parts

[See All Mating Products](#)



PRODUCT - MATING PRODUCTS

Connectors - IDC D-Sub Connectors  
AMPLIMITE I HDE (IDC) Insulation

**KIT, RCPT, 9P, HDE,  
SHLD ENCLSRE  
- 1-747943-6**

TE INTERNAL NUMBER: 1-747943-6

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Shielded **Yes**

Number of Positions **9**

Number of Rows **2**

Preloaded **Yes**



RELATIONSHIP

## Mating Products

Used to identify Mating Parts

[See All Mating Products](#)



PRODUCT - MATING PRODUCTS

Connectors - IDC D-Sub Connectors  
AMPLIMITE I HDE (IDC) Insulation

**09 HDE PMOLD RCPT,  
LEAD FREE - 747516-7**

TE INTERNAL NUMBER: 747516-7

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Shielded **Yes**

Centerline **1.38 mm**

Number of Positions **9**

Number of Rows **2**



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