



# PCB D-SUB CONNECTORS



## TE CONNECTIVITY (TE) 09 HTMSFL PLUG RA 318 (IN,BL) AMPLIMITE | Standard

788792-1  
TE Internal Number: 788792-1

Not EU RoHS or ELV Compliant  
[Find Compliant Alternatives](#)

Connector Style **Plug**

Centerline (in) **.108**

Number of Positions **9**

Number of Rows **2**

Shell Size **1**

Active

[PRODUCT DRAWING](#)  
English

[3D PDF](#)

### Product Drawings

[PLUG ASSEMBLY, SIZE 1, .318 SERIES, WITH FRONT METAL SHELL, HIGH TEMPERATURE, AMPLIMITE HD-20](#)

PDF  
English

### CAD Files

[3D PDF](#)  
PDF  
3D

[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 Right-Angle Front Metal Shell Connectors](#)  
PDF  
English

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

### Product Environmental Compliance

TE Material Declaration [MD\\_788792-1\\_05092011433](#)  
PDF  
English

|                        |   |                                    |
|------------------------|---|------------------------------------|
| Product Type Features  | Connector Style                             | <b>Plug</b>                        |
|                        | Shell Size                                  | <b>1</b>                           |
|                        | Profile                                     | <b>Standard</b>                    |
|                        | PCB Mounting Orientation                    | <b>Right Angle</b>                 |
|                        | Grounding Straps                            | <b>With</b>                        |
|                        | Shell Type                                  | <b>Front Metal Shell</b>           |
|                        | Footprint                                   | <b>8.08 mm [ .318 in ]</b>         |
|                        | Grounding Indents                           | <b>With</b>                        |
|                        | Applies To                                  | <b>Printed Circuit Board</b>       |
|                        | Sealed                                      | <b>No</b>                          |
| Product Type           | <b>Connector</b>                            |                                    |
| Configuration Features | Number of Positions                         | <b>9</b>                           |
|                        | Number of Rows                              | <b>2</b>                           |
|                        | Preloaded                                   | <b>Yes</b>                         |
| Body Features          | Plastic                                     | <b>No</b>                          |
|                        | Color Code                                  | <b>None</b>                        |
|                        | Eyelet Plating Material                     | <b>Tin</b>                         |
|                        | Shell Plating Material                      | <b>Tin over Copper</b>             |
|                        | Shell Material                              | <b>Carbon Steel</b>                |
|                        | Eyelet Material                             | <b>Brass</b>                       |
|                        | Post Size (in)                              | <b>.013</b>                        |
| Contact Features       | Solder Tail Contact Plating Material        | <b>Tin-Lead</b>                    |
|                        | Contact Base Material                       | <b>Brass</b>                       |
|                        | Contact Mating Area Plating Thickness (µin) | <b>30</b>                          |
|                        | Contact Mating Area Plating Material        | <b>Gold</b>                        |
| Termination Features   | Termination Post Length                     | <b>3.18 mm [ .125 in ]</b>         |
|                        | Grounding Clips                             | <b>Without</b>                     |
| Mechanical Attachment  | PCB Mounting Style                          | <b>Surface Mount, Through Hole</b> |
|                        | PCB Mount Retention                         | <b>With</b>                        |
|                        | PCB Mount Retention Type                    | <b>Boardlocks</b>                  |

|                                  |                         |
|----------------------------------|-------------------------|
| Mating Connector Lock            | <b>With</b>             |
| Mating Connector Lock Type       | <b>Threaded Inserts</b> |
| Panel Mount Retention            | <b>Without</b>          |
| Boardlock Material               | <b>Copper Alloy</b>     |
| Mounting Hole Diameter (in)      | <b>.125</b>             |
| Boardlock Plating Material       | <b>Tin over Nickel</b>  |
| Threaded Insert Material         | <b>Zinc</b>             |
| Threaded Insert Plating Material | <b>Clear Chromate</b>   |

|                  |                  |                             |
|------------------|------------------|-----------------------------|
| Housing Features | Centerline (in)  | <b>.108</b>                 |
|                  | Housing Color    | <b>Black</b>                |
|                  | Housing Material | <b>Nylon, Thermoplastic</b> |

|            |                             |                            |
|------------|-----------------------------|----------------------------|
| Dimensions | PCB Thickness (Recommended) | <b>1.57 mm [ .062 in ]</b> |
|------------|-----------------------------|----------------------------|

|                  |                          |            |
|------------------|--------------------------|------------|
| Usage Conditions | High Temperature Housing | <b>Yes</b> |
|------------------|--------------------------|------------|


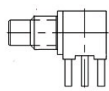

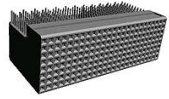
|                    |                        |                 |
|--------------------|------------------------|-----------------|
| Industry Standards | UL Flammability Rating | <b>UL 94V-0</b> |
|--------------------|------------------------|-----------------|

|                    |                    |             |
|--------------------|--------------------|-------------|
| Packaging Features | Packaging Method   | <b>Tray</b> |
|                    | Packaging Quantity | <b>130</b>  |

Product Compliance [Statement of Compliance](#)  
PDF

[VIEW ALL PRODUCT COMPLIANCE](#)

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|---|---|--|---|

Relation Type ▼

RELATIONSHIP

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Used to identify Mating Parts

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PRODUCT - MATING PRODUCTS



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

**09 HDE MS RCPT, 26-30,  
LEAD FREE - 1-745491-6**  
TE INTERNAL NUMBER: 1-745491-6

✓ 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

**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  
- 1-747943-5**  
TE INTERNAL NUMBER: 1-747943-5

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Shielded **Yes**

Number of Positions **9**

Number of Rows **2**

Preloaded **Yes**



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