# 745968-8 ✓ ACTIVE

## AMPLIMITE | AMPLIMITE HD-20
TE Internal #: 745968-8

AMPLIMITE HD-20, PCB D-Sub Connectors, Plug, Board-to-Board, 25 Position, 2.77mm [.109in] Centerline, 2 Row, Row-to-Row Spacing 2.84 mm [.112 in]

View on TE.com >

Connectors > D-Shaped Connectors > D-Sub Connectors > PCB D-Sub Connectors



Connector & Housing Type: **Plug**

Connector System: **Board-to-Board**

Number of Positions: **25**

Centerline (Pitch): **2.77 mm [ .109 in ]**

Number of Rows: **2**

## Features

### Product Type Features

| | |
|---|---|
| Grounding Indents | With |
| Grounded | Yes |
| Grounding Straps | Without |
| Shell Type | Front Metal Shell |
| Connector & Housing Type | Plug |
| Connector System | Board-to-Board |
| D-Sub Shell Size | 3 |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |
| Product Type | Connector |

### Configuration Features

| | |
|---|---|
| Number of Positions | 25 |
| Number of Rows | 2 |
| PCB Mount Orientation | Vertical |
| Preloaded | Yes |

### Body Features

| | |
|---|---|
| Plastic | No |
| Insert Material | Brass |

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| | |
|---|---|
| Connector Profile | Standard |
| Shell Plating Material | Tin |
| Shell Material | Carbon Steel |
| Post Size | .66 mm[.026 in] |

## Contact Features

| | |
|---|---|
| Contact Mating Area Underplating Material | Palladium Nickel |
| Contact Mating Area Plating Material | Gold, Gold Flash |
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material | Tin-Lead |
| Contact Base Material | Brass |
| Contact Shape & Form | Round |
| Contact Current Rating (Max) | 6 A |
| | 30 µin |

## Termination Features

| | |
|---|---|
| Grounding Clips | Without |
| Termination Method to Printed Circuit Board | Through Hole - Solder |
| Termination Post Length | 3.18 mm[.125 in] |

## Mechanical Attachment

| | |
|---|---|
| Threaded Insert Material | Brass |
| Panel Mount Feature | Without |
| PCB Mount Retention | With |
| PCB Mount Retention Type | Mounting Hole |
| Mating Retention | With |
| Mating Retention Type | Threaded Inserts |
| Connector Mounting Type | Board Mount |
| Mounting Hole Diameter | 3.05 mm[.12 in] |

## Housing Features

| | |
|---|---|
| Centerline (Pitch) | 2.77 mm[.109 in] |
| Housing Material | Polyester |
| Housing Color | Black |

## Dimensions

| | |
|---|---|
| Row-to-Row Spacing | 2.84 mm[.112 in] |

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| | |
|---|---|
| PCB Thickness (Recommended) | 1.57 – 2.36 mm[.062 – .093 in] |

## Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |

## Operation/Application

| | |
|---|---|
| Circuit Application | Signal |

## Industry Standards

| | |
|---|---|
| Approved Standards | UL E28476 |
| UL Flammability Rating | UL 94V-0 |

## Packaging Features

| | |
|---|---|
| Packaging Method | Tube |
| Packaging Quantity | 10 |

## Other

| | |
|---|---|
| Comment | Plugs are preloaded with size 20 DF posted pin contacts |

## Product Compliance

For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Not Compliant |
| EU ELV Directive 2000/53/EC | Not Compliant |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JAN 2020 (205)<br>Candidate List Declared Against: JUL 2019 (201)<br>Pb (13% in Component Part) |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JAN 2020 (205)<br>Candidate List Declared Against: JUL 2019 (201) |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Reflow solder capable to 260°C |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these

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limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked.Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.
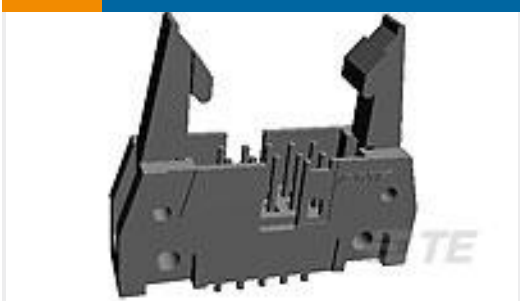
## Compatible Parts



TE Model / Part # 1-745495-8
25 HDE MS RCPT,22-26,LEAD FREE



TE Model / Part # 1-745495-7
25 HDE MS RCPT,26-30,LEAD FREE



TE Model / Part # 5746861-2
25 POS HDF RCPT, MS



TE Model / Part # 1658610-2
25 POS HDF RCPT, MS, LEAD FREE



TE Model / Part # 1658612-2
25 POS HDF RCPT, MS, LEAD FREE



TE Model / Part # 1-747947-6
KIT,RCPT,25P,HDE,SHLD ENCLSRE



TE Model / Part # 1-745495-9
25 HDE MS RCPT,20-22,LEAD FREE



TE Model / Part # 1-747947-5
KIT,RCPT,25P,HDE,SHLD ENCLSRE



TE Model / Part # 747548-8
KIT,RCPT,25P,HDE,SHLD HDWRE

## Also in the Series | AMPLIMITE HD-20

AMPLIMITE HD-20, PCB D-Sub Connectors, Plug, Board-to-Board, 25 Position, 2.77 mm [.109in] Centerline, 2 Row, Row-to-Row Spacing 2.84 mm [.112 in]

PCB D-Sub Connectors(354)

## Customers Also Bought

TE Model / Part #499206-1
010 UNIV HDR SP 4S 30DP STD L1

TE Model / Part #745967-8
25 RCPT SP/FMS INSRT

TE Model / Part #770170-1
03P MINI-UMNL ASSY VO SNNI*

TE Model / Part #641215-6
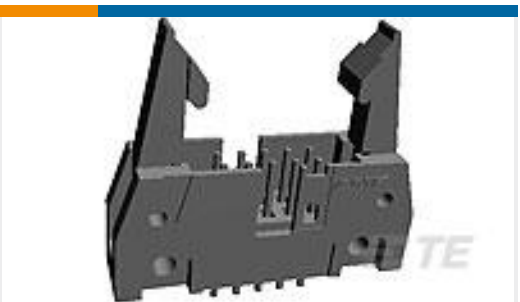06P MTA100 HDR ASSY FL/ST 30AU
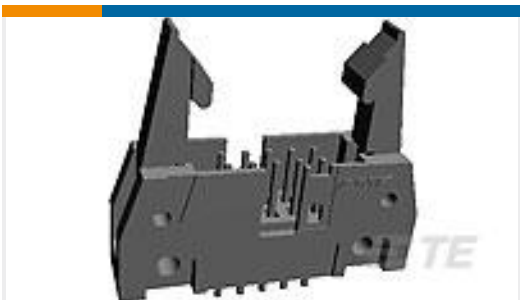
TE Model / Part #747871-8
09 PLUG SP/FMS INSRT

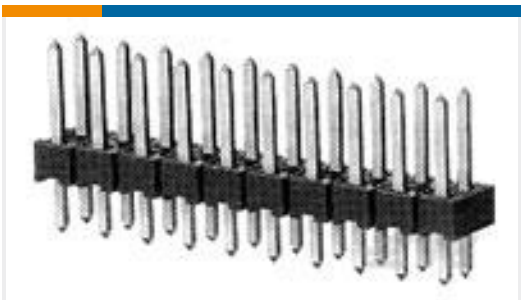TE Model / Part #1437536-2
516-AG10D=SOCKET ASSY

TE Model / Part #5745968-8
HD-20 25 PLUG SP/FMS INSRT

TE Model / Part #499206-4
020 UNIV HDR SP 4S 30DP STD L1

TE Model / Part #499922-3
016 UNIV HDR SP 4S 15DP STD L1

TE Model / Part #103240-3
06 MODII HDR DRST B/A .100CL

## Documents

### Product Drawings
25 PLUG SP/FMS INSRT

English

### CAD Files
3D PDF

3D

Customer View Model
ENG_CVM_CVM_745968-8_N.2d_dxf.zip

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English

**Customer View Model**

ENG_CVM_CVM_745968-8_N.3d_igs.zip

English

**Customer View Model**

ENG_CVM_CVM_745968-8_N.3d_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

## Product Specifications

Application Specification

English

## Product Environmental Compliance

REACH Substance Communication Document

English