

166052-1 ✓ ACTIVE



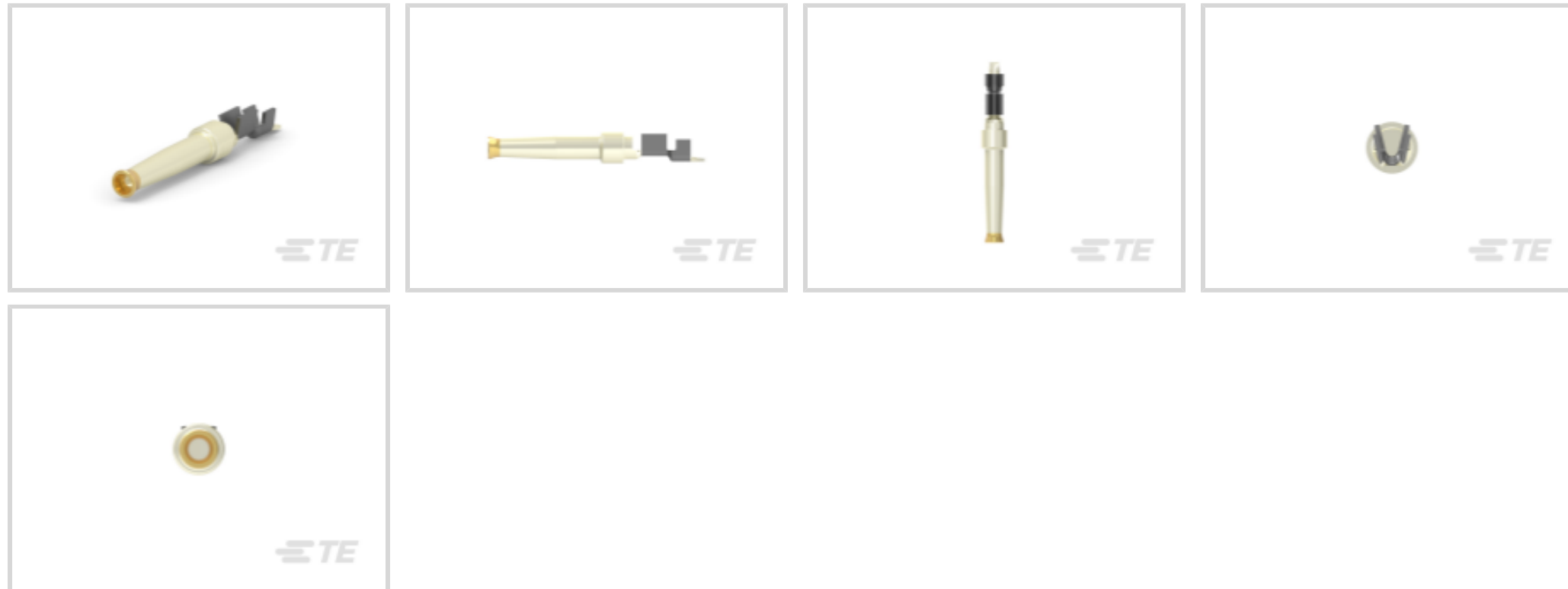
## AMPLIMITE

TE Internal #: 166052-1

D-Sub Connector Contacts, Socket, Contact Size Size 20, Phosphor Bronze, Gold, Crimp, 28 – 24 AWG Wire Size, .08 – .22 mm<sup>2</sup> Wire Size, Wire & Cable

[View on TE.com >](#)

Connectors > D-Shaped Connectors > D-Sub Connector Contacts > D-Sub Conn Contacts: Socket, Phosphor Bronze, Signal, Size 20



Contact Type: **Socket**

Contact Size: **Size 20**

Contact Base Material: **Phosphor Bronze**

Contact Mating Area Plating Material: **Gold**

Termination Method to Wire & Cable: **Crimp**

[All D-Sub Conn Contacts: Socket, Phosphor Bronze, Signal, Size 20 \(56\)](#)

## Features

### Product Type Features

|                                   |              |
|-----------------------------------|--------------|
| Connector & Contact Terminates To | Wire & Cable |
|-----------------------------------|--------------|

### Contact Features

|  |                 |
|--|-----------------|
| Mating Pin Diameter                            | 1 mm            |
| Contact Mating Area Plating Material Thickness | .76 µm          |
| Contact Underplating Material                  | Nickel          |
| PCB Contact Termination Area Plating Material  | Tin             |
| Contact Type                                   | Socket          |
| Contact Size                                   | Size 20         |
| Contact Base Material                          | Phosphor Bronze |
| Contact Mating Area Plating Material           | Gold            |
| Contact Current Rating (Max)                   | 1.2 A           |

### Termination Features



|                                    |       |
|------------------------------------|-------|
| Termination Method to Wire & Cable | Crimp |
|------------------------------------|-------|

### Mechanical Attachment

|                                       |         |
|---------------------------------------|---------|
| Contact Retention Type Within Housing | Snap-In |
|---------------------------------------|---------|

|                         |      |
|-------------------------|------|
| Wire Insulation Support | With |
|-------------------------|------|

### Dimensions

|                           |         |
|---------------------------|---------|
| Insulation Diameter (Max) | 1.02 mm |
|---------------------------|---------|

|                                      |                              |
|--------------------------------------|------------------------------|
| Compatible Insulation Diameter Range | .76 – 1.02 mm [.03 – .04 in] |
|--------------------------------------|------------------------------|

|           |                           |
|-----------|---------------------------|
| Wire Size | .08 – .22 mm <sup>2</sup> |
|-----------|---------------------------|

### Usage Conditions

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

### Operation/Application

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

### Identification Marking

|                    |      |
|--------------------|------|
| Contact Color Code | Blue |
|--------------------|------|

### Packaging Features

|                    |       |
|--------------------|-------|
| Packaging Quantity | 12500 |
|--------------------|-------|

|                  |       |
|------------------|-------|
| Packaging Method | Strip |
|------------------|-------|

## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

|                              |           |
|------------------------------|-----------|
| EU RoHS Directive 2011/65/EU | Compliant |
|------------------------------|-----------|

|                             |           |
|-----------------------------|-----------|
| EU ELV Directive 2000/53/EC | Compliant |
|-----------------------------|-----------|

|   |   |
|---|---|
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
|---|---|

|  |   |
|--|---|
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2023 (235)<br>Candidate List Declared Against: JUNE 2023 (235)<br>Does not contain REACH SVHC |
|--|---|

|                 |   |
|-----------------|---|
| Halogen Content | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
|-----------------|---|

|                           |  |
|---------------------------|--|
| Solder Process Capability | Not applicable for solder process capability |
|---------------------------|--|

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 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 Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

## Compatible Parts



TE Part # 91503-1  
CCI AMPLIMITE 20 DF PIN SKT 28-20 ASSY



TE Part # 1579007-9  
EXTRACTION TOOL



TE Part # 91285-1  
INSERT/EXTRACT TOOL ASSEMBLY



TE Part # 2305570-1  
Strip Terminal Cutter-Side Feed-No Crimp



TE Part # 2151428-1  
OCEAN-2.0-APPLICATOR-S-042F055O



TE Part # 2151428-2  
OCEAN-2.0-APPLICATOR-S-042F055OA



TE Part # 5-2151428-1  
OCEAN-2.0-APPLICATOR-S-042F055O



TE Part # 5-2151428-2  
OCEAN-2.0-APPLICATOR-S-042F055OA



TE Part # 7-2151428-7  
OCEAN\_2.0\_SPARE\_PART\_KIT-042F055O



TE Part # 2-2151428-1  
OCEAN-2.0-APPLICATOR-S-042F055O

## Customers Also Bought



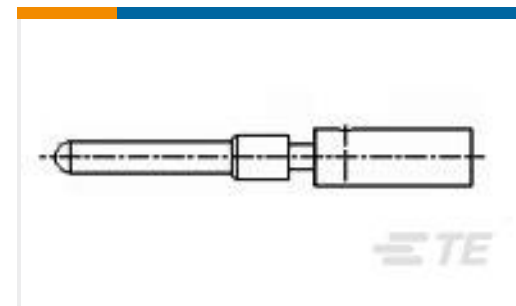
TE Part #2-34806-2  
PIDG 16-14HD R 1/4; TAPE



TE Part #1-103653-1  
12 MTE SHRD PIN HSG SR LATCH



TE Part #6-146256-3  
26 MODII HDR DRST B/A .100CL LF



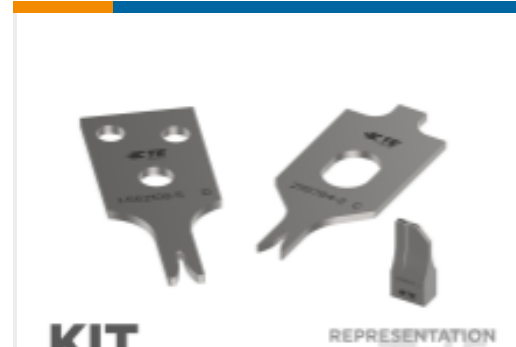
TE Part #5-1437720-4  
T01-CRIMP-P03



TE Part #2-2232263-1  
PTL 1X2 CAP PANEL MT HOT WIRE  
KEY B NAT



TE Part #2-2837550-1  
OCEAN\_2.0\_Applicator-S-050F070F



TE Part #7-2837550-7  
OCEAN\_2.0\_SPARE\_PART\_KIT-  
050F070F



TE Part #193797-1  
SKT ASSY - 2MM, 10 AWG



TE Part #3-1971777-2  
PTL TPA HWI 1 X 2 BLACK



TE Part #ZPF00000000097343  
768-0319-38 E

## Documents

### Product Drawings

[TD 20 F CRIMP SOCKET WIRE SIZE](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_166052-1\\_AF.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_166052-1\\_AF.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_166052-1\\_AF.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages



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

English

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### [Product Specifications](#)

#### [Application Specification](#)

English

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### [Product Environmental Compliance](#)

#### [MD\\_166052-1\\_04172018231\\_dmtec](#)

English

#### [MD\\_166052-1\\_04172018231\\_dmtec](#)

English