

## HDSCS CONTACTS

HDSCS connectors utilize the common AMP MCP stamped & formed contact system.



### AMP MCP CONTACT PERFORMANCE SPECIFICATIONS

#### Durability

|                    |
|--------------------|
| 10 cycles (tin)    |
| 50 cycles (silver) |
| 100 cycles (gold)  |

#### Current Rating

| Contact Size | Max Current |
|--------------|-------------|
| 1.5K         | Up to 20 A  |
| 2.8          | Up to 40 A  |
| 6.3/4.8K     | Up to 40 A  |

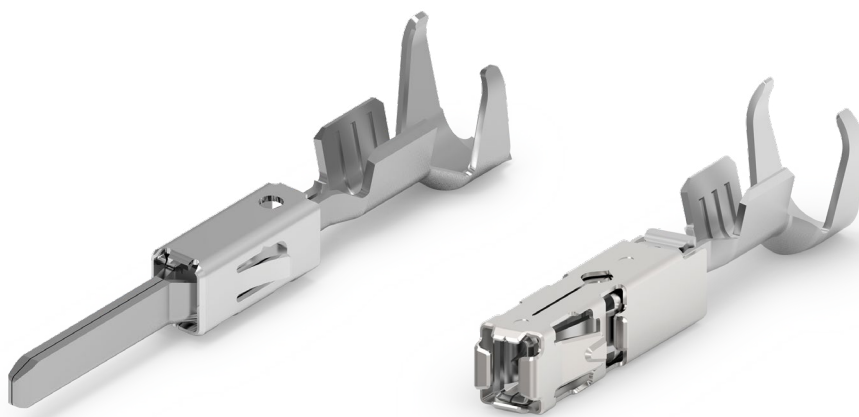
#### Contact Retention

| Contact Size | Min. Load |
|--------------|-----------|
| 1.5K         | 40/60 N   |
| 2.8          | 80 N      |
| 6.3/4.8K     | 80 N      |

#### Crimp Tensile Strength

| Contact Size        | Tensile Strength |
|---------------------|------------------|
| <b>1.5K</b>         |                  |
| .22mm <sup>2</sup>  | ≥ 32 N           |
| .35mm <sup>2</sup>  | ≥ 50 N           |
| .50mm <sup>2</sup>  | ≥ 60 N           |
| .75mm <sup>2</sup>  | ≥ 85 N           |
| 1.0mm <sup>2</sup>  | ≥ 108 N          |
| 1.25mm <sup>2</sup> | ≥ 135 N (16 AWG) |
| 1.5mm <sup>2</sup>  | ≥ 135 N          |
| <b>2.8</b>          |                  |
| .22mm <sup>2</sup>  | ≥ 28 N           |
| .35mm <sup>2</sup>  | ≥ 50 N           |
| .50mm <sup>2</sup>  | ≥ 60 N           |
| .75mm <sup>2</sup>  | ≥ 85 N           |
| 1.0mm <sup>2</sup>  | ≥ 108 N          |
| 1.5mm <sup>2</sup>  | ≥ 150 N          |
| 2.5mm <sup>2</sup>  | ≥ 200 N          |
| <b>6.3/4.8K</b>     |                  |
| .35mm <sup>2</sup>  | ≥ 50 N           |
| .50mm <sup>2</sup>  | ≥ 60 N           |
| .75mm <sup>2</sup>  | ≥ 85 N           |
| 1.0mm <sup>2</sup>  | ≥ 108 N          |
| 1.5mm <sup>2</sup>  | ≥ 150 N          |
| 2.5mm <sup>2</sup>  | ≥ 200 N          |
| 4.0mm <sup>2</sup>  | ≥ 310 N          |
| 6.0mm <sup>2</sup>  | ≥ 450 N          |

## HDSCS CONTACTS



### AMP MCP 1.5K CONTACTS

Stamped & Formed Tabs and Receptacles with Single Wire Sealing System

| 1.5K                | Wire Size (mm <sup>2</sup> ) | Insulation Diameter FLR (mm) | Strip Form Part Number | Loose Piece Part Number | Finish Code        |
|---------------------|------------------------------|------------------------------|------------------------|-------------------------|--------------------|
| Receptacle Contacts | 0.2-0.35                     | 1.1-1.4                      | 1564324                | 1564325                 | -1; -2; -3         |
|                     | 0.5-1.0                      | 1.4-2.1                      | 1241380*               | 1241381                 | -1; -2; -3; 1-x-2* |
|                     | >1.0-1.5                     | 1.9-2.4                      | 1418884                | 1418885                 | -1; -3             |
| Tab Contacts        | 0.2-0.5                      | 1.15-1.6                     | 969028                 | 969029                  | -2; -3; -5         |
|                     |                              |                              | 963902                 | 963903                  | -1; -2; -3         |
|                     |                              |                              | 2141884*               | 2141885                 | -2; -3; -5; 2-x-2* |
|                     | 0.5-1.0                      | 1.4-2.1                      | 963904                 | 963905                  | -1; -2; -3         |
|                     |                              |                              | 964269*                | 964270                  | -2; -3; -5; 2-x-2* |
|                     | 1.5                          | 1.95-2.4                     | 1703278                | 1703279                 | -2; -5             |

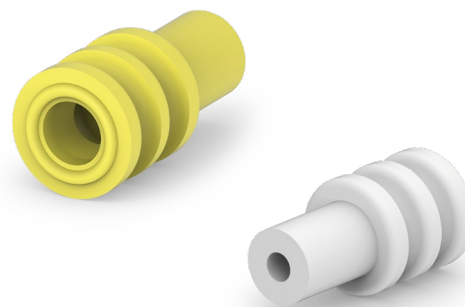
Material and Finish Codes with "\*" are only available on their corresponding strip form or loose piece part number.

### MCP 1.5K Terminal Material and Finish Codes

|                     | Finish Code | -1      | -2          | -3            | -5            | 1-x-2              | 2-x-2         |
|---------------------|-------------|---------|-------------|---------------|---------------|--------------------|---------------|
| Receptacle Contacts | Material    | CuNiSi  | CuNiSi      | CuNiSi        | *             | CuNiSi             | *             |
|                     | Plating     | Pre-Tin | Select Gold | Select Silver | *             | 1.27um Select Gold | *             |
| Tab Contacts        | Finish Code | -2      | -3          | -5            | 1-x-1         | 1-x-2              | 1-x-3         |
|                     | Material    | CuSn4   | CuFe2       | CuSn4         | CuSn4         | CuFe2              | CuFe2         |
|                     | Plating     | Pre-Tin | Pre-Tin     | Select Gold   | Select Silver | Select Silver      | Select Silver |

\*Other configurations available upon request. Please contact TE for additional information.

## HDSCS WIRE SEALS & SEALING PLUGS



### AMP MCP 1.5K WIRE SEALS

Wire Seals are required for connectors without an integrated rear seal to maintain an environmental seal.

| Insulation Diameter (mm) | Cavity Size (mm) | Color                  | Part Number |
|--------------------------|------------------|------------------------|-------------|
| 0.9-1.2                  | 3.6              | Green                  | 1718705-1   |
|                          |                  | Red                    | 1718705-2   |
| Red                      |                  | 964971-1               |             |
| Blue                     |                  | 1394133-1              |             |
| Green                    |                  | 963530-1               |             |
| Yellow                   |                  | 964972-1               |             |
| Orange                   |                  | 2112323-1 <sup>†</sup> |             |
| Green                    |                  | 2287497-1 <sup>†</sup> |             |
| 1.2-1.6                  |                  |                        |             |
| 1.4-1.9                  |                  |                        |             |
| 1.9-2.4                  |                  |                        |             |
| 2.2-2.4                  |                  |                        |             |

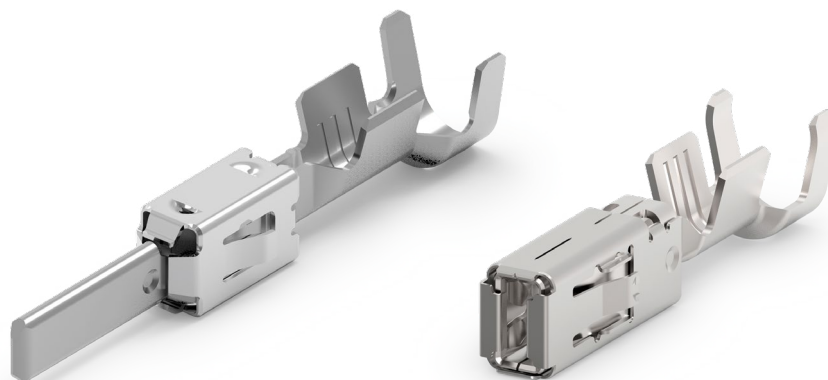
<sup>†</sup>For cable with insulation diameter between 2.2 - 2.4mm, wire seal 2287497-1 is preferred, with improved insertion performance into housing. Reduced 120°C temperature limit. 2112323-1 has 140°C temperature limit but increased insertion forces into housing.

### AMP MCP 1.5K SEALING PLUGS

Open cavities provide pathways for contaminants to enter the connectors. To maintain seal integrity, any unused cavity must be filled with the appropriate size sealing plug.

| Cavity Size (mm) | Color   | Part Number |
|------------------|---------|-------------|
| 3.6              | White   | 963531-1    |
|                  | Natural | 1394132-1   |

## HDSCS CONTACTS



### AMP MCP 2.8 CONTACTS

Stamped & Formed Tabs and Receptacles with Single Wire Sealing System

| 2.8                    | Wire Size<br>(mm <sup>2</sup> ) | Insulation<br>Diameter<br>FLR (mm) | Strip Form<br>Part Number | Loose Piece<br>Part Number | Material/Finish<br>Codes                         |
|------------------------|---------------------------------|------------------------------------|---------------------------|----------------------------|--------------------------------------------------|
| Receptacle<br>Contacts | 0.2-0.5                         | 1.2-1.4                            | 2141859                   | -                          | 1-x-1; 1-x-2; 1-x-3                              |
|                        | 0.5-1.0                         | 1.4-2.1                            | 968855                    | 968875                     | 1-x-1; 1-x-2; 1-x-3                              |
|                        | 1.5-2.5                         | 2.2-3.0                            | 968857*                   | 968876                     | 1-x-1; 1-x-2*; 1-x-3; 2-x-3                      |
|                        | 4.0                             | 3.4-3.7                            | 968859                    | 968877                     | 1-x-1; 1-x-3; 2-x-3                              |
|                        | 12 AWG                          | 3.0-3.8                            | 1719506                   | -                          | 1-x-1; 1-x-3                                     |
| Tab<br>Contacts        | 0.2-0.5                         | MAX 2.1                            | 965982                    | 965983                     | 1-x-1; 1-x-3                                     |
|                        | 0.5-1.0                         | MAX 2.1                            | 962915*                   | 963748                     | 1-x-1; 1-x-2; 1-x-3; 2-x-1; 2-x-2; 2-x-3; 6-x-6* |
|                        | >1.0-2.5                        | MAX 3.0                            | 962916                    | 963749                     | 1-x-1; 1-x-2; 1-x-3; 2-x-1; 2-x-2; 2-x-3         |
|                        | >2.5-4.0                        | MAX 3.7                            | 968947                    | 968966                     | 1-x-1; 1-x-2; 2-x-1; 2-x-2; 3-x-1                |
|                        | 12 AWG                          | MAX 3.0                            | 1719504                   | 1719503                    | 1-x-1; 1-x-2                                     |

Material and Finish Codes with "\*" are only available on their corresponding strip form or loose piece part number.

### MCP 2.8 Terminal Material and Finish Codes

|                        | Finish<br>Code | 1-x-1   | 1-x-2            | 1-x-3            | 2-x-1   | 2-x-2            | 2-x-3            | 3-x-1     | 6-x-6       |
|------------------------|----------------|---------|------------------|------------------|---------|------------------|------------------|-----------|-------------|
| Receptacle<br>Contacts | Material       | CuNiSi  | CuNiSi           | CuNiSi           | *       | *                | CuNiSi           | *         | *           |
|                        | Plating        | Pre-Tin | Select<br>Gold   | Select<br>Silver | *       | *                | Select<br>Silver | *         | *           |
| Tab<br>Contacts        | Material       | CuSn4   | CuSn4            | CuSn4            | CuFe    | CuFe             | CuFe             | CuSn 0.20 | CuSn4       |
|                        | Plating        | Pre-Tin | Select<br>Silver | Select<br>Gold   | Pre-Tin | Select<br>Silver | Select<br>Gold   | Pre-Tin   | Select Gold |

\*Other configurations available upon request. Please contact TE for additional information.

## HDSCS WIRE SEALS & SEALING PLUGS



### AMP MCP 2.8 WIRE SEALS

Wire Seals are required for connectors without an integrated rear seal to maintain an environmental seal.

| Insulation Diameter (mm) | Cavity Size (mm) | Color      | Part Number |
|--------------------------|------------------|------------|-------------|
| 1.2-2.1                  | 5.6              | Light Blue | 828904-1    |
|                          |                  |            | 828904-2    |
|                          |                  |            | 828904-3    |
| 2.2-3.0                  |                  | White      | 828905-1    |

### AMP MCP 2.8 SEALING PLUGS

Open cavities provide pathways for contaminants to enter the connectors. To maintain seal integrity, any unused cavity must be filled with the appropriate size sealing plug.

| Cavity Size (mm) | Color   | Part Number |
|------------------|---------|-------------|
| 5.4              | Natural | 828922-1    |
|                  | Green   | 828922-2    |

## HDSCS CONTACTS



### AMP MCP 6.3/4.8K CONTACTS

Stamped & Formed Tabs and Receptacles with Single Wire Sealing System

| 6.3/4.8K               | Wire Size<br>(mm <sup>2</sup> ) | Insulation Diameter<br>FLR (mm) | Strip Form<br>Part Number | Loose Piece<br>Part Number | Material/Finish Codes      |
|------------------------|---------------------------------|---------------------------------|---------------------------|----------------------------|----------------------------|
| Receptacle<br>Contacts | 0.35-0.5                        | 1.2-2.3                         | 1241410*                  | 1241411                    | -1; -3*; 5-x-1*; 5-x-3*    |
|                        | 0.5-1.0                         | 1.4-2.7                         | 1241412                   | 1241413                    | -1; -3                     |
|                        | >1.0-2.5                        | 2.2-3.7                         | 1241414                   | 1241415                    | -1; -3                     |
|                        | >2.5-4.0                        | 3.4-4.5                         | 1241416                   | 1241417                    | -1; -3                     |
|                        | 4.0-6.0                         | 3.4-4.3                         | 1241418*                  | 1241419                    | -4; 1-x-3; 2-x-3*          |
| Tab<br>Contacts        | 0.5-1.0                         | 1.4-2.1                         | 962917                    | 963742                     | 1-x-1; 1-x-2; 2-x-1        |
|                        | >1.0-2.5                        | 2.2-3.0                         | 962918                    | 963743                     | 1-x-1; 1-x-2; 2-x-1; 2-x-2 |
|                        | 4.0                             | 2.7-3.7                         | 962919                    | 963744                     | 1-x-1; 1-x-2; 2-x-2        |
|                        | 6.0, 10 AWG                     | 4.0-4.3                         | 2112966                   | 2112965                    | 2-x-2                      |

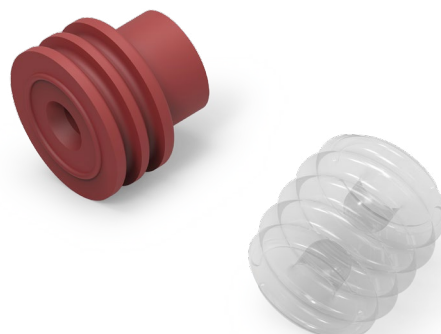
Material and Finish Codes with "\*" are only available on their corresponding strip form or loose piece part number.

### MCP 6.3/4.8K Terminal Material and Finish Codes

|                        | Finish<br>Code | -1      | -3               | -4      | 1-x-1   | 1-x-2            | 1-x-3            | 2-x-1   | 2-x-2            | 2-x-3            | 5-x-1   | 5-x-3            |
|------------------------|----------------|---------|------------------|---------|---------|------------------|------------------|---------|------------------|------------------|---------|------------------|
| Receptacle<br>Contacts | Material       | CuNiSi  |                  |         | *       | *                | CuNiSi           | *       | *                | CuNiSi           |         |                  |
|                        | Plating        | Pre-Tin | Select<br>Silver | Pre-Tin | *       | *                | Select<br>Silver | *       | *                | Select<br>Silver | Pre-Tin | Select<br>Silver |
| Tab<br>Contacts        | Material       | *       | *                | *       | CuSn4   |                  | *                | CuFe2   |                  | *                | *       | *                |
|                        | Plating        | *       | *                | *       | Pre-Tin | Select<br>Silver | *                | Pre-Tin | Select<br>Silver | *                | *       | *                |

\*Other configurations available upon request. Please contact TE for additional information.

## HDSCS WIRE SEALS & SEALING PLUGS



### AMP MCP 6.3/4.8K WIRE SEALS

Wire Seals are required for connectors without an integrated rear seal to maintain an environmental seal.

| Insulation Diameter (mm) | Cavity Size (mm) | Color     | Part Number |
|--------------------------|------------------|-----------|-------------|
| 1.4-2.0                  | 8.5              | Yellow    | 2177018-1   |
| 2.0-2.7                  |                  | White     | 1394511-1   |
| 2.7-3.0                  |                  | Red-Brown | 1823111-1   |
| 3.4-3.7                  |                  | Blue      | 1394512-1   |
| 4.0-4.5                  |                  | Green     | 1719043-1   |

### AMP MCP 6.3/4.8K SEALING PLUGS

Open cavities provide pathways for contaminants to enter the connectors. To maintain seal integrity, any unused cavity must be filled with the appropriate size sealing plug.

| Cavity Size (mm) | Color       | Part Number |
|------------------|-------------|-------------|
| 8.5              | Transparent | 967652-1    |

## HDSCS CONNECTORS

### TOOLING

Tools are specific to each contact style. To create a proper crimp and achieve the highest performance specifications, contacts must be crimped with the recommended tooling.



### HAND TOOL FOR AMP MCP CONTACTS

| Contact Size | Contact Type | Strip Form Part Number | Loose Piece Part Number | Hand Tool Part Number | Die Set Part Number |
|--------------|--------------|------------------------|-------------------------|-----------------------|---------------------|
| 1.5K         | Receptacle   | 1564324                | 1564325                 | 539635-1              | 4-1579016-0         |
|              |              | 1241380                | 1241381                 |                       | 539950-2            |
|              |              | 1418884                | 1418885                 |                       | 5-1579001-3         |
|              | Tab          | 969028                 | 969029                  |                       | 539663-2            |
|              |              | 963902                 | 963903                  |                       | 539651-2            |
|              |              | 2141884                | 2141885                 |                       | 539663-2            |
|              |              | 963904                 | 963905                  |                       | 539651-2            |
|              |              | 964269                 | 964270                  |                       | 539663-2            |
|              |              | 1703278                | 1703279                 | -                     | -                   |
| 2.8          | Receptacle   | 2141859                | -                       | -                     | -                   |
|              |              | 968855                 | 968875                  | 539635-1              | 539726-2            |
|              |              | 968857                 | 968876                  |                       | 539727-2            |
|              |              | 968859                 | 968877                  |                       | 539727-2            |
|              |              | 1719506                | -                       | -                     | -                   |
|              | Tab          | 965982                 | 965983                  | 539635-1              | 539737-2            |
|              |              | 962915                 | 963748                  |                       | 539758-2            |
|              |              | 962916                 | 963749                  |                       | 539758-2            |
|              |              | 968947                 | 968966                  |                       | 539727-2            |
|              |              | 1719504                | 1719503                 | -                     | -                   |
| 6.3 / 4.8K   | Receptacle   | 1241410                | 1241411                 | 539635-1              | 539955-2            |
|              |              | 1241412                | 1241413                 |                       | 539955-2            |
|              |              | 1241414                | 1241415                 |                       | 539956-2            |
|              |              | 1241416                | 1241417                 |                       | 539956-2            |
|              |              | 1241418                | 1241419                 |                       | 3-1579021-7         |
|              | Tab          | 962917                 | 963742                  |                       | 539757-2            |
|              |              | 962918                 | 963743                  |                       | 539757-2            |
|              |              | 962919                 | 963744                  |                       | 539757-2            |
|              |              | 2112966                | 2112965                 | -                     | -                   |

Other tooling configurations available upon request. Please contact TE for additional information.

# HDSCS CONNECTORS

## AUTOMATED FOR AMP MCP CONTACTS



OCEAN 2.0 Applicator

| Contact Size | Contact Type | Strip Form Part Number | Feed | Type       | Applicator Part Number |
|--------------|--------------|------------------------|------|------------|------------------------|
| 1.5K         | Receptacle   | 1564324                | Side | Mechanical | 2151469-1              |
|              |              |                        |      | Pneumatic  | 2151469-2              |
|              |              | 1241380                |      | Mechanical | 2151064-1              |
|              |              |                        |      | Pneumatic  | 2151064-2              |
|              |              | 1418884                |      | Mechanical | 2151424-1              |
|              |              |                        |      | Pneumatic  | 2151424-2              |
|              | Tab          | 969028                 |      | Mechanical | 2151056-1              |
|              |              |                        |      | Pneumatic  | 2151056-2              |
|              |              | 963902                 |      | Mechanical | 2151167-1              |
|              |              |                        |      | Pneumatic  | 2151167-2              |
|              |              | 2141884                |      | Mechanical | 2151056-1              |
|              |              |                        |      | Pneumatic  | 2151056-2              |
|              |              | 963904                 |      | Mechanical | 2151170-1              |
|              |              |                        |      | Pneumatic  | 2151170-2              |
|              |              | 964269                 |      | Mechanical | 2151057-1              |
|              |              |                        |      | Pneumatic  | 2151057-2              |
|              |              | 1703278                |      | Mechanical | 2151701-1              |
|              |              |                        |      | Pneumatic  | 2151701-2              |
| 2.8          | Receptacle   | 2141859                | Side | -          | -                      |
|              |              | 968855                 |      | Mechanical | 2151227-1              |
|              |              |                        |      | Pneumatic  | 2151227-2              |
|              |              | 968857                 |      | Mechanical | 2151346-1              |
|              |              |                        |      | Pneumatic  | 2151346-2              |
|              |              | 968859                 |      | Mechanical | 2151173-1              |
|              |              |                        |      | Pneumatic  | 2151173-2              |
|              |              | 1719506                |      | Mechanical | 2836789-1              |
|              |              |                        |      | Pneumatic  | 2836789-2              |
|              | Tab          | 965982                 |      | Mechanical | 2151840-1              |
|              |              |                        |      | Pneumatic  | 2151840-2              |
|              |              | 962915                 |      | Mechanical | 2151181-1              |
|              |              |                        |      | Pneumatic  | 2151181-2              |
|              |              | 962916                 |      | Mechanical | 2151260-1              |
|              |              |                        |      | Pneumatic  | 2151260-2              |
|              |              | 968947                 |      | Mechanical | 2151173-1              |
|              |              |                        |      | Pneumatic  | 2151173-2              |
|              |              | 1719504                |      | Mechanical | 2836092-1              |
|              |              |                        |      | Pneumatic  | 2836092-2              |

Other tooling configurations available upon request. Please contact TE for additional information.

## HDSCS CONNECTORS

### AUTOMATED FOR AMP MCP CONTACTS (Continued)



OCEAN 2.0 Applicator

| Contact Size | Contact Type | Strip Form Part Number | Feed | Type       | Applicator Part Number |
|--------------|--------------|------------------------|------|------------|------------------------|
| 6.3 / 4.8K   | Receptacle   | 1241410                | Side | Pneumatic  | 2151695-2              |
|              |              | 1241412                |      | Pneumatic  | 2151234-2              |
|              |              | 1241414                |      | Pneumatic  | 2151177-2              |
|              |              | 1241416                |      | Pneumatic  | 2151151-2              |
|              |              | 1241418                |      | Mechanical | 2151466-1              |
|              | Tab          | 962917                 |      | Pneumatic  | 2151466-2              |
|              |              | 962918                 |      | Pneumatic  | 2266535-2              |
|              |              | 962919                 |      | Pneumatic  | 2151783-2              |
|              |              | 2112966                |      | Pneumatic  | 2151782-2              |
|              |              |                        |      | Pneumatic  | 2151841-2              |

Other tooling configurations available upon request. Please contact TE for additional information.

### EXTRACTION AND INSERTION TOOLS FOR AMP MCP CONTACTS

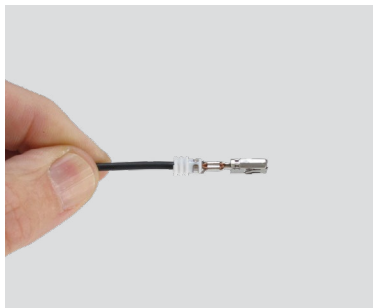
| Contact Size | Contact Type | Tool Type  | Part Number |
|--------------|--------------|------------|-------------|
| 1.5K         | Receptacle   | Insertion  | 5-1579018-6 |
|              |              | Extraction | 1-1579007-1 |
|              | Tab          | Extraction | 539960-1    |
| 2.8          | Receptacle   | Insertion  | 519609-1    |
|              |              | Extraction | 1579007-1   |
|              | Tab          | Extraction | 1-1579007-6 |
| 6.3 / 4.8K   | Receptacle   | Insertion  | 6-1579018-3 |
|              |              | Extraction | 1-1579007-3 |
|              | Tab          | Extraction | 1-1579007-6 |



# HDSCS CONNECTORS

## HOW-TO INSTRUCTIONS

### CONTACT INSERTION



#### STEP 1:

Grasp crimped contact approximately one inch behind the contact barrel.



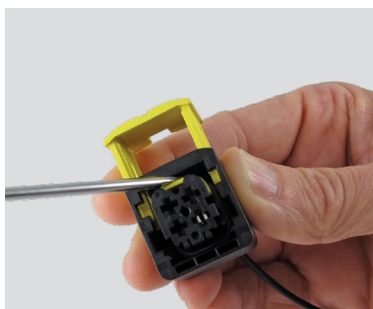
#### STEP 2:

Make sure the contact is in the correct orientation. Verify the integrated secondary lock is in the unlocked position.



#### STEP 3:

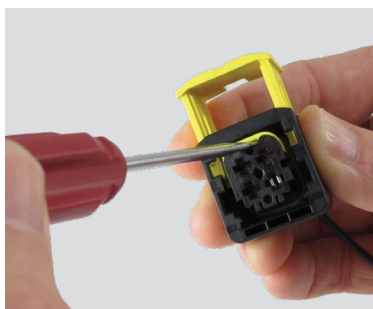
Push contact straight into connector grommet until a click is felt. A slight tug will confirm that it is properly locked in place.



#### STEP 4:

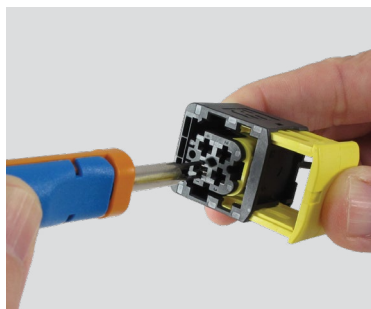
Push the integrated secondary lock into the locked position with a DT-RT1 or a screwdriver.

### CONTACT REMOVAL



#### STEP 1:

Using a DT-RT1 or a screwdriver, unlock the integrated secondary lock.



#### STEP 2:

Using the appropriate extraction tool, insert the blades into the contact cavity until they stop.



#### STEP 3:

Pull contact wire assembly out of connector.

## INDEX

## BACKSHELLS

|              |    |
|--------------|----|
| 185792.....  | 16 |
| 185793.....  | 16 |
| 965576.....  | 16 |
| 965577.....  | 16 |
| 965783.....  | 16 |
| 965784.....  | 16 |
| 965785.....  | 16 |
| 965786.....  | 16 |
| 1418916..... | 16 |
| 1418917..... | 16 |
| 1418918..... | 16 |
| 1418919..... | 16 |
| 1534789..... | 16 |
| 1534791..... | 16 |
| 1563110..... | 16 |
| 1563111..... | 16 |
| 1670057..... | 16 |
| 1670150..... | 16 |
| 1670364..... | 16 |
| 1670365..... | 16 |
| 1670865..... | 16 |
| 1670866..... | 16 |

## CONTACTS

|             |            |
|-------------|------------|
| 962915..... | 22, 26, 27 |
| 962916..... | 22, 26, 27 |
| 962917..... | 24, 26, 28 |
| 962918..... | 24, 26, 28 |
| 962919..... | 24, 26, 28 |
| 963742..... | 24, 26     |
| 963743..... | 24, 26     |
| 963744..... | 24, 26     |
| 963748..... | 22, 26     |
| 963749..... | 22, 26     |
| 963902..... | 20, 26, 27 |
| 963903..... | 20, 26     |
| 963904..... | 20, 26, 27 |
| 963905..... | 20, 26     |
| 964269..... | 20, 26, 27 |
| 964270..... | 20, 26     |
| 965982..... | 22, 26, 27 |
| 965983..... | 22, 26     |

|              |            |
|--------------|------------|
| 968855.....  | 22, 26, 27 |
| 968857.....  | 22, 26, 27 |
| 968859.....  | 22, 26, 27 |
| 968875.....  | 22, 26     |
| 968876.....  | 22, 26     |
| 968877.....  | 22, 26     |
| 968947.....  | 22, 26, 27 |
| 968966.....  | 22, 26     |
| 969028.....  | 20, 26, 27 |
| 969029.....  | 20, 26     |
| 1241380..... | 20, 26, 27 |
| 1241381..... | 20, 26     |
| 1241410..... | 24, 26, 28 |
| 1241411..... | 24, 26     |
| 1241412..... | 24, 26, 28 |
| 1241413..... | 24, 26     |
| 1241414..... | 24, 26, 28 |
| 1241415..... | 24, 26     |
| 1241416..... | 24, 26, 28 |
| 1241417..... | 24, 26     |
| 1241418..... | 24, 26, 28 |
| 1241419..... | 24, 26     |
| 1418884..... | 20, 26, 27 |
| 1418885..... | 20, 26     |
| 1564324..... | 20, 26, 27 |
| 1564325..... | 20, 26     |
| 1703278..... | 20, 26, 27 |
| 1703279..... | 20, 26     |
| 1719503..... | 22, 26     |
| 1719504..... | 22, 26, 27 |
| 1719506..... | 22, 26, 27 |
| 2112965..... | 24, 26     |
| 2112966..... | 24, 26, 28 |
| 2141859..... | 22, 26, 27 |
| 2141884..... | 20, 26, 27 |
| 2141885..... | 20, 26     |

## FIXING SLIDES

|              |    |
|--------------|----|
| 1564411..... | 17 |
| 1564562..... | 17 |
| 1670720..... | 17 |
| 1703810..... | 17 |
| 1703838..... | 17 |
| 2316939..... | 17 |

|              |    |
|--------------|----|
| 2317070..... | 17 |
|--------------|----|

## HOUSINGS

|              |       |
|--------------|-------|
| 1418390..... | 9     |
| 1418437..... | 10    |
| 1418448..... | 8, 14 |
| 1418469..... | 9     |
| 1418479..... | 10    |
| 1418480..... | 10    |
| 1418483..... | 8     |
| 1563759..... | 13    |
| 1563878..... | 13    |
| 1564330..... | 12    |
| 1564337..... | 13    |
| 1564407..... | 13    |
| 1564412..... | 13    |
| 1564414..... | 11    |
| 1564416..... | 10    |
| 1564512..... | 10    |
| 1564514..... | 11    |
| 1564516..... | 11    |
| 1564518..... | 11    |
| 1564520..... | 11    |
| 1564522..... | 11    |
| 1564526..... | 13    |
| 1564528..... | 13    |
| 1564530..... | 13    |
| 1564532..... | 13    |
| 1564534..... | 12    |
| 1564536..... | 12    |
| 1564542..... | 10    |
| 1564544..... | 10    |
| 1564546..... | 10    |
| 1670214..... | 10    |
| 1670730..... | 8, 14 |
| 1670894..... | 11    |
| 1670901..... | 12    |
| 1703639..... | 11    |
| 1703648..... | 10    |
| 1703773..... | 9     |
| 1703808..... | 9     |
| 1703818..... | 9     |
| 1703820..... | 9     |
| 1703839..... | 8     |

## INDEX

|              |        |
|--------------|--------|
| 1703841..... | 8      |
| 1703843..... | 8, 14  |
| 2208157..... | 11     |
| 2278730..... | 14, 15 |
| 2299782..... | 12     |
| 2306960..... | 14, 15 |

## PROTECTION CAPS

|              |    |
|--------------|----|
| 2112289..... | 18 |
| 2112291..... | 18 |
| 2112293..... | 18 |
| 2112295..... | 18 |
| 2112297..... | 18 |
| 2112299..... | 18 |
| 2112300..... | 18 |
| 2112301..... | 18 |
| 2112302..... | 18 |
| 2112303..... | 18 |

## SEALING PLUGS

|              |    |
|--------------|----|
| 828922.....  | 23 |
| 963531.....  | 21 |
| 967652.....  | 25 |
| 1394132..... | 21 |

## TOOLING

|              |    |
|--------------|----|
| 519609.....  | 28 |
| 539635.....  | 26 |
| 539651.....  | 26 |
| 539663.....  | 26 |
| 539726.....  | 26 |
| 539727.....  | 26 |
| 539737.....  | 26 |
| 539757.....  | 26 |
| 539758.....  | 26 |
| 539950.....  | 26 |
| 539955.....  | 26 |
| 539956.....  | 26 |
| 539960.....  | 28 |
| 1579001..... | 26 |
| 1579007..... | 28 |
| 1579016..... | 26 |
| 1579018..... | 28 |
| 1579021..... | 26 |

|              |    |
|--------------|----|
| 2151056..... | 27 |
| 2151057..... | 27 |
| 2151064..... | 27 |
| 2151151..... | 28 |
| 2151167..... | 27 |
| 2151170..... | 27 |
| 2151173..... | 27 |
| 2151177..... | 28 |
| 2151181..... | 27 |
| 2151227..... | 27 |
| 2151234..... | 28 |
| 2151260..... | 27 |
| 2151346..... | 27 |
| 2151424..... | 27 |
| 2151466..... | 28 |
| 2151469..... | 27 |
| 2151695..... | 28 |
| 2151701..... | 27 |
| 2151782..... | 28 |
| 2151783..... | 28 |
| 2151840..... | 27 |
| 2151841..... | 28 |
| 2266535..... | 28 |
| 2836092..... | 27 |
| 2836789..... | 27 |

## WIRE SEALS

|              |    |
|--------------|----|
| 828904.....  | 23 |
| 828905.....  | 23 |
| 963530.....  | 21 |
| 964971.....  | 21 |
| 964972.....  | 21 |
| 1394133..... | 21 |
| 1394511..... | 25 |
| 1394512..... | 25 |
| 1718705..... | 21 |
| 1719043..... | 25 |
| 1823111..... | 25 |
| 2112323..... | 21 |
| 2177018..... | 25 |
| 2287497..... | 21 |

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TE Connectivity

4849 Hempstead Station Drive  
Kettering, OH 45429  
USA

[www.te.com](https://www.te.com)

