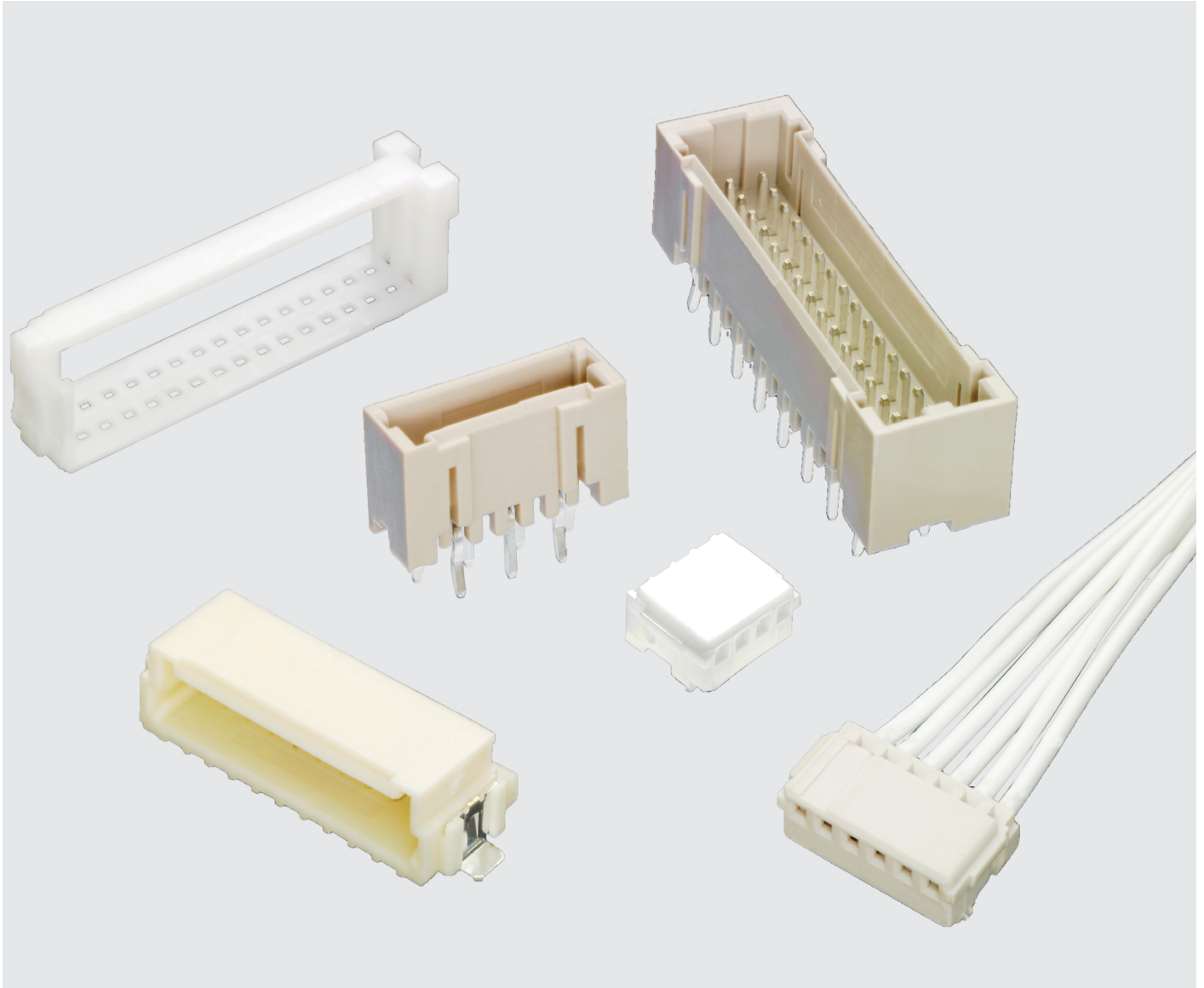




# 1.5 MM PITCH AMP MINI CT CONNECTOR SERIES

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## QUICK REFERENCE GUIDE

TE Connectivity's (TE) AMP Mini CT connectors are miniature wire-to-board and wire-to-wire connectors. Like the standard AMP CT connector series, these connectors are tailored for improved harness productivity and feature a compact design with contacts on 1.5 mm pitch. Wire-side connectors can be used to produce a variety of harness styles by fully automatic high-speed assembling machines.

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## FEATURES AND BENEFITS

- 2 kinds of termination method: IDC, crimp
- Discrete wire interconnect
- Circuits range from 2-20 single row, 22-40 dual row
- AWG 24-28
- Both thru-hole and SMT mounting styles are available
- Kinks for self-retention on boards
- Many components are recognized under the component program of Underwriters Laboratories Inc., file No. E28476
- Certified by Canadian Standards Association, File No. LR 7189

## PRODUCT APPLICATION

- Business equipment
- Industrial machines
- IoT / Smart Devices
- PC, Printer and Fax
- C-TV
- Audio
- Air conditioner
- LED lighting
- Where signals or power are routed

## HOW TO SELECT AN AMP MINI CT CONNECTOR PART NUMBER

The charts on this page highlight the relationship between the number of contacts (positions) to the part number. Please see the sample chart below that was designed to help you select the correct part number for your needs. For single digit position to dash numbers, attach the digit to the end base number. For double digit position to dash numbers, attach the first digit to the front of the part number, add a dash and the base part number, then follow the base part number with a dash and the second digit.

| Example Base Part Number | Your criteria                        | Example Position to Dash Selection |    |    |     |     |     | End Part Number Based On Criteria |
|--------------------------|--------------------------------------|------------------------------------|----|----|-----|-----|-----|-----------------------------------|
|                          |                                      | Position                           | 8  | 9  | 10  | 11  | 12  |                                   |
| 353293                   | You require an 8 position MT housing | Dash Number                        | -8 | -9 | -10 | -11 | -12 | 353293-8                          |
| 353293                   | You require a 12 position MT housing | Dash Number                        | -8 | -9 | -10 | -11 | -12 | 1-353293-2                        |

## MASS TERMINATION (MT) VS. CRIMP POKE

### MASS TERMINATION (MT) VS. CRIMP POKE

#### MT

- Time savings
- Preloaded IDC contacts
- Automation
- Mates with all headers

#### Crimp Poke

- Cost effective
- Flexibility (AWG)
- Manual labor
- Mates with all headers

AMP Mini CT MT Housing : 353293



Unstripped wire inserted into MT housing.

AMP Mini CT Crimp Contact : 353907



Contact crimped onto a stripped wire to be inserted into a crimp housing.

AMP Mini CT Crimp Housing : 353908



# CABLE SIDE CONNECTORS

## RECEPTACLE CONNECTORS (WIRE APPLICATION)

| Description                                                                                 | PN     | Photo | Position to Dash |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  |
|---------------------------------------------------------------------------------------------|--------|-------|------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                                                                                             |        |       | 2                | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |  |
| MT receptacle housing - AWG : 26-28                                                         | 353293 | A     | -2               | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -20 |  |
| Mating Part Numbers: 292206; 292207; 292227; 292228; 292239; 292231; 292215; 292208; 292216 |        |       |                  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  |
| Specifications: C, X                                                                        |        |       |                  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  |

## CONTACTS

| Description              | PN       | Photo | Specifications |
|--------------------------|----------|-------|----------------|
| Reel-AWG: 24-28          | 353907-1 | B     | B,Y            |
| Loose Piece - AWG: 24-28 | 353918-1 | B     | B,Y            |

## CRIMP TYPE HOUSING

| Description                                                                                 | PN     | Photo | Position to Dash |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  |
|---------------------------------------------------------------------------------------------|--------|-------|------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                                                                                             |        |       | 2                | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |  |
| Crimp receptacle housing - White                                                            | 353908 | C     | -2               | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -20 |  |
| Mating Part Numbers: 292206; 292207; 292227; 292228; 292239; 292231; 292215; 292208; 292216 |        |       |                  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  |
| Specifications: B                                                                           |        |       |                  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  |

# CABLE SIDE CONNECTORS : TOOLING OPTIONS

## APPLICATION TOOLING

| AMP Mini CT PN | Description           | Tooling PN | Tooling Description  | Application Specification | Instruction Sheet |
|----------------|-----------------------|------------|----------------------|---------------------------|-------------------|
| 393293         | MT Housing            | 937317-1   | Pistol Tool          | 114-5223                  | 411-5826          |
| 353907-1       | Crimp Contact - Strip | 1426169-1  | Leadmaker Applicator | 114-5245                  | 411-78049         |
|                |                       | 1426169-2  | Bench Application    | 114-5245                  | 411-78049         |
| 179518-1       | Crimp Contact - Loose | 1729069-1  | Hand Tool            | 114-5245                  | 411-78106         |

Automated tooling options are also available. Call Tooling Sales at 800-722-1111 (717-810-2082) for more information.

# AMP MINI CT CONNECTOR STYLES



## 1 DUAL ROW ASSEMBLIES

Two single row receptacle housings, either MT or crimp, that use a holder to mate with a dual row header.

## 2 SOLDER PAD

Designed to secure the SMT headers onto the PCB

## 3 LOCATING BOSS

A mechanical feature that helps orient the headers onto the PCB.

## 4 PANEL-MOUNT

Transmits signal through a notch in a panel or a PCB and requires two housings to complete a circuit.

## 5 SMT INVERTED THRU BOARD

Positioned through a cutout or notch in a PCB and requires only one housing to complete a circuit. The innovative design avoids wire dress management issues.

| Description                              | PN     | Photo | Position to Dash |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |
|------------------------------------------|--------|-------|------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                          |        |       | 2                | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| T/H Type Horizontal-Mount Type, w/o Boss | 292206 | D     | -2               | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -20 |
| T/H Type Vertical-Mount Type, w/ Boss    | 292207 | E     | -2               | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -20 |
| SMT Type Horizontal-Mount Type, w Boss   | 292227 | F     | -2               | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -20 |

| Description                                                                | PN     | Photo | Position to Dash |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  |
|----------------------------------------------------------------------------|--------|-------|------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                                                                            |        |       | 2                | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |  |
| SMT Type Horizontal-Mount Type, w/o Boss                                   | 292228 | G     | -2               | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -20 |  |
| SMT Type Vertical-Mount Type, w Boss                                       | 292230 | H     |                  | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -20 |  |
| SMT Type Vertical-Mount Type, w/o Boss                                     | 292231 | I     |                  | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -20 |  |
| Mating Part Numbers: (MT) 353293 or (Crimp) 353908 w/ 353907-1 or 353918-1 |        |       |                  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  |
| Specifications: A, X                                                       |        |       |                  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |  |

## SINGLE ROW POST HEADER ASSEMBLIES : PANEL-MOUNT

| Description                                                                | PN     | Photo | Position to Dash |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |
|----------------------------------------------------------------------------|--------|-------|------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                                            |        |       | 2                | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| Single Row Panel-Mount                                                     | 292215 | J     | -2               | -3 | -4 | -5 | -6 | -7 | -8 | -9 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 | -20 |
| Mating Part Numbers: (MT) 353293 or (Crimp) 353908 w/ 353907-1 or 353918-1 |        |       |                  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |
| Specifications: A, X                                                       |        |       |                  |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |

## DUAL ROW HEADERS

| Description                                                                             | PN     | Photo | Position to Dash |     |     |     |     |     |     |     |     |     |
|-----------------------------------------------------------------------------------------|--------|-------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                                                         |        |       | 22               | 24  | 26  | 28  | 30  | 32  | 34  | 36  | 38  | 40  |
| Receptacle Housing Connector Mounting Holder                                            | 353294 | K     | -22              | -24 | -26 | -28 | -30 | -32 | -34 | -36 | -38 | -40 |
| Note: Two receptacle housings are applied per holder and one holder per dual row header |        |       |                  |     |     |     |     |     |     |     |     |     |
| Mating Part Numbers: 2 x (MT) 353293 or 2 x (Crimp) 353908 w/ 353907-1 or 353918-1      |        |       |                  |     |     |     |     |     |     |     |     |     |
| Specifications: C, X                                                                    |        |       |                  |     |     |     |     |     |     |     |     |     |

## DUAL ROW POST HEADER ASSEMBLIES : BOARD-MOUNT

| Description                                                                | PN     | Photo | Position to Dash |     |     |     |     |     |     |     |     |     |
|----------------------------------------------------------------------------|--------|-------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                                            |        |       | 22               | 24  | 26  | 28  | 30  | 32  | 34  | 36  | 38  | 40  |
| Dual Row T/H Type/ Vertical-Mount                                          | 292208 | L     | -22              | -24 | -26 | -28 | -30 | -32 | -34 | -36 | -38 | -40 |
| Dual Row SMT Type/ Vertical Mount Type w/Boss                              | 292229 | M     |                  | -24 | -26 | -28 | -30 | -32 | -34 | -36 | -38 | -40 |
| Dual Row T/H Type/ Horizontal Mount w/ Board Lock                          | 292262 | N     | -22              | -24 | -26 | -28 | -30 | -32 | -34 | -36 | -38 | -40 |
| Mating Part Numbers: (MT) 353293 or (Crimp) 353908 w/ 353907-1 or 353918-1 |        |       |                  |     |     |     |     |     |     |     |     |     |
| Specifications: A, X                                                       |        |       |                  |     |     |     |     |     |     |     |     |     |

## DUAL ROW POST HEADER ASSEMBLIES : PANEL-MOUNT

| Description                                                                   | PN     | Position to Dash |     |     |     |     |     |     |     |     |     |
|-------------------------------------------------------------------------------|--------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                                               |        | 22               | 24  | 26  | 28  | 30  | 32  | 34  | 36  | 38  | 40  |
| Dual Row Panel-Mount                                                          | 292216 | -22              | -24 | -26 | -28 | -30 | -32 | -34 | -36 | -38 | -40 |
| <b>Mating Part Numbers:</b> 353294 w/ 2 x MT or 2 x Crimp Single Row Housings |        |                  |     |     |     |     |     |     |     |     |     |
| <b>Specifications:</b> C, X                                                   |        |                  |     |     |     |     |     |     |     |     |     |

## INVERTED THRU BOARD

| Description                                                                   | PN      | Photo | Position to Dash |    |    |    |    |    |
|-------------------------------------------------------------------------------|---------|-------|------------------|----|----|----|----|----|
|                                                                               |         |       | 1                | 2  | 3  | 4  | 5  | 6  |
| SMT Type Thru Board                                                           | 2106091 | O     | -1               | -2 | -3 | -4 | -5 | -6 |
| <b>Mating Part Numbers:</b> MT 353293 or crimp 353908 w/ 333907-1 or 333918-1 |         |       |                  |    |    |    |    |    |
| <b>Specifications:</b> D, Z                                                   |         |       |                  |    |    |    |    |    |

## MINI CT CABLE ASSEMBLY DESCRIPTION PN

| Description    | PN      | Position to Dash |    |    |    |    |    |
|----------------|---------|------------------|----|----|----|----|----|
|                |         | 1                | 2  | 3  | 4  | 5  | 6  |
| Cable Assembly | 2058943 | -1               | -2 | -3 | -4 | -5 | -6 |

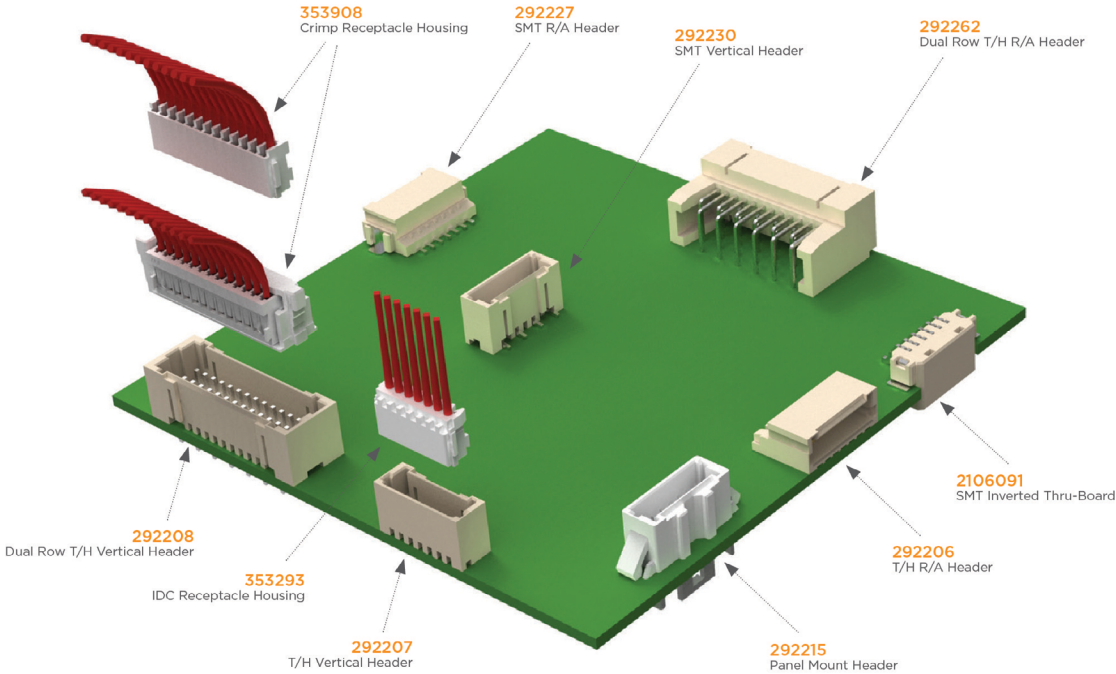
# PRODUCT/APPLICATION SPECIFICATION

## RATINGS

| Product Specs |           | Voltage      | Operating Current (Amps) |        |        |              |
|---------------|-----------|--------------|--------------------------|--------|--------|--------------|
|               |           |              | 24 AWG                   | 26 AWG | 28 AWG | Temperature  |
| A             | 108-60018 | 50 V (AC/DC) | -                        | 2      | 1      | -30 to 105°C |
| B             | 108-60025 | 50 V (AC/DC) | 3                        | 2.5    | 1.5    | -30 to 105°C |
| C             | 108-5525  | 50 V AC      | -                        | 2      | 2      | -65 to 105°C |
| D             | 108-2376  | 50 V (AC/DC) | 3                        | 2.5    | 1.5    | -30 to 105°C |

| Application Specs |           |
|-------------------|-----------|
| X                 | 114-5223  |
| Y                 | 114-5223  |
| Z                 | 114-13245 |

## AMP MINI CT MOUNT STYLES



## CABLE ASSEMBLIES

For convenience, a selection of double-ended cable assemblies is available. These cable assemblies are useful for prototyping or for small production runs. For additional sizes, lengths or connector styles, please reach out to the TE sales team or to customer care.

| PN        | Description                                           | Length | Positions | Housing PN | Contact PN | Wire Gauge | Wire Temp Rating | Wire Voltage Rating | Wire Color |
|-----------|-------------------------------------------------------|--------|-----------|------------|------------|------------|------------------|---------------------|------------|
| 2405870-1 | AMP Mini CT 2P<br>300MM CABLE<br>ASSEMBLY 6-353908-2  | 300 mm | 2         | 6-353908-2 | 353907-1   | 24 AWG     | 80° C            | 300 V               | Orange     |
| 2405870-3 | AMP Mini CT 3P<br>300MM CABLE<br>ASSEMBLY 6-353908-3  | 300 mm | 3         | 6-353908-3 | 353907-1   | 24 AWG     | 80° C            | 300 V               | Orange     |
| 2405870-4 | AMP Mini CT 4P<br>300MM CABLE<br>ASSEMBLY 6-353908-4  | 300 mm | 4         | 6-353908-4 | 353907-1   | 24 AWG     | 80° C            | 300 V               | Orange     |
| 2405870-5 | AMP Mini CT 5P<br>300MM CABLE<br>ASSEMBLY 6-353908-5  | 300 mm | 5         | 6-353908-5 | 353907-1   | 24 AWG     | 80° C            | 300 V               | Orange     |
| 2405870-6 | AMP Mini CT 6P<br>300MM CABLE<br>ASSEMBLY 6-353908-6  | 300 mm | 6         | 6-353908-6 | 353907-1   | 24 AWG     | 80° C            | 300 V               | Orange     |
| 2405870-7 | AMP Mini CT 7P<br>300MM CABLE<br>ASSEMBLY 6-353908-7  | 300 mm | 7         | 6-353908-7 | 353907-1   | 24 AWG     | 80° C            | 300 V               | Orange     |
| 2405870-8 | AMP Mini CT 8P<br>300MM CABLE<br>ASSEMBLY 6-353908-8  | 300 mm | 8         | 6-353908-8 | 353907-1   | 24 AWG     | 80° C            | 300 V               | Orange     |
| 2405870-2 | AMP Mini CT 10P<br>300MM CABLE<br>ASSEMBLY 7-353908-0 | 300 mm | 9         | 7-353908-0 | 353907-1   | 24 AWG     | 80° C            | 300 V               | Orange     |

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## FREQUENTLY ASKED QUESTIONS

### What wire gauge will you be using?

There is more flexibility with AWG when using Crimp (24-28 AWG) vs. MT (26-28 AWG).

### Are the connectors available for IDC?

Yes, we offer an MT version that is preloaded with IDC contacts.

### Is your process automated?

MT housings are suitable for automated processes.

### What current, voltage and operating temperature is required?

Please see product specification information on the charts on page 8 of this document.

### Which is a more standard header, with or without a locating boss?

The most standard headers tend to have a locating boss as it makes it easier for the customer to align the connector onto their board.

### What special retention mechanisms are available to provide stability?

These product's T/H headers have a staggered tine design to provide stability.

### What are my tooling options?

TE offers comprehensive tooling options including manual pistol grip tooling, manual mini-press, pneumatic mini-press, semi-auto DECAM and a fully automatic DECAM assembly machine. For more information, please visit [te.com](http://te.com) or call the tooling assistance center at 800-722-1111 or 717-810-2082

### What if my application is constrained for space with the 1.5 mm AMP Mini CT?

TE continues to develop and design interconnects that meet the needs of miniaturized applications. If your application is constrained for space, take a look at our AMP Micro CT product line.

### Does TE offer pre-made cable assemblies?

Yes, we do offer single ended AMP Mini CT pigtails in various lengths often used in lighting applications. Please reference part number 2058943-x.

## te.com

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07/23

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