

## AMPMODU 2 mm WIRE-TO-BOARD CRIMP RECEPTACLES

TE Connectivity's (TE) AMPMODU 2 mm connectors reliably and economically meet the packaging and interconnection requirements of today's miniature sophisticated electronics, occupying 38 percent less space than traditional 2.54 mm [0.100"] centerline connectors. The new Wire-to-Board crimp receptacle family includes housings styles without latches and with detent or positive latching along with 2 contact sizes for wire ranges 30 - 24 AWG [0.05 - 0.22 mm<sup>2</sup>]. The receptacle assemblies utilize phosphor bronze contacts with dual cantilever beams in gold or tin plating options. Connectors are available in a single and double row, from 2 to 25 positions per row. The housing design with detent and positive latching offers a reliable interconnection in high-vibration industrial environments. Additionally, wire termination is easily accomplished with TE-recommended hand or applicator tooling. Along with TE's Board-to-Board portfolio, the 2 mm crimp receptacle family can meet a wide variety of customer requirements.

### BENEFITS

- 38% space savings as compared to the traditional 2.54 mm [0.100"] centerline connectors
- Reliable connection in high vibration environments with detent and positive latching variants
- Design flexibility with various crimp terminal options for wire sizes 30 - 24 AWG [0.05 - 0.22 mm<sup>2</sup>]
- Proper locking assured by an audible click of a positive latch
- Increased safety with a polarization feature preventing incorrect mating

# AMPMODU 2 mm Wire-to-Board Crimp Receptacles

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## APPLICATIONS

- PLC/IO devices
- Servo drives
- Material handling equipment
- Building and home automation devices
- Industrial controls
- Robotics
- Instrumentation and test equipment

## ELECTRICAL

- **Current rating:** 2A (max.)
- **Dielectric withstanding voltage:** 650 VAC
- **Operating voltage:** 125 Vrms (max.)

## SPECIFICATIONS

- **Product specification:** [108-64040-1](#)
- **Application specification:** [114-32173](#)
- RoHS & REACH compliant
- cURus: Pending
- VDE approval pending

## MECHANICAL

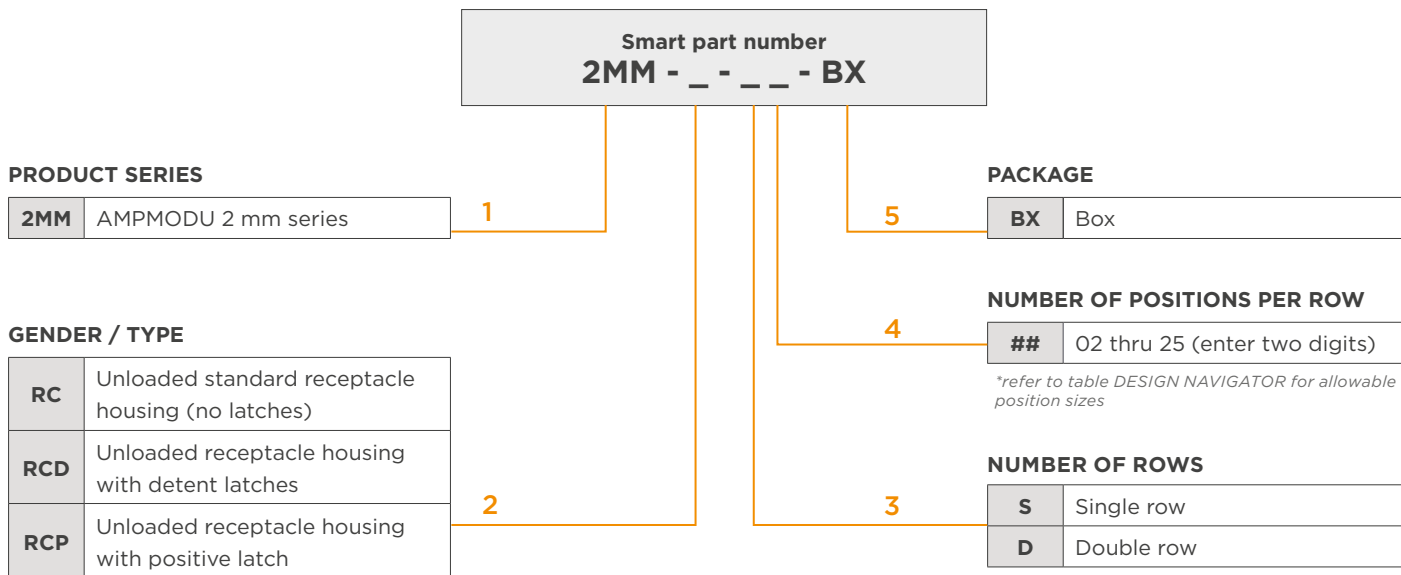
- **Operating temperature:**
  - -40°C to 105°C for tin plated receptacles
  - -40°C to 125°C for gold plated receptacles
- **Vibration:** No electrical discontinuity greater than 1 microsecond

## MATERIALS

- **Plating:**
  - 30  $\mu$ " [0.76  $\mu$ m] gold
  - 15  $\mu$ " [0.38  $\mu$ m] gold
  - 4  $\mu$ " [0.1  $\mu$ m] gold flash
  - Tin
- **Contact material:** Phosphor bronze
- **Housing material:** High-temperature plastic (LCP), black
- **Environmental:** UL94 V0, low halogen
- Operating environment class III

# AMPMODU 2 mm Wire-to-Board Crimp Receptacles

## SMART PART NUMBER DEFINITION



### SMART PN EXAMPLES

- AMPMODU 2 mm, crimp receptacle with detent latches, double row, 16 positions (2 x 8), box: **2MM-RCD-D08-BX**

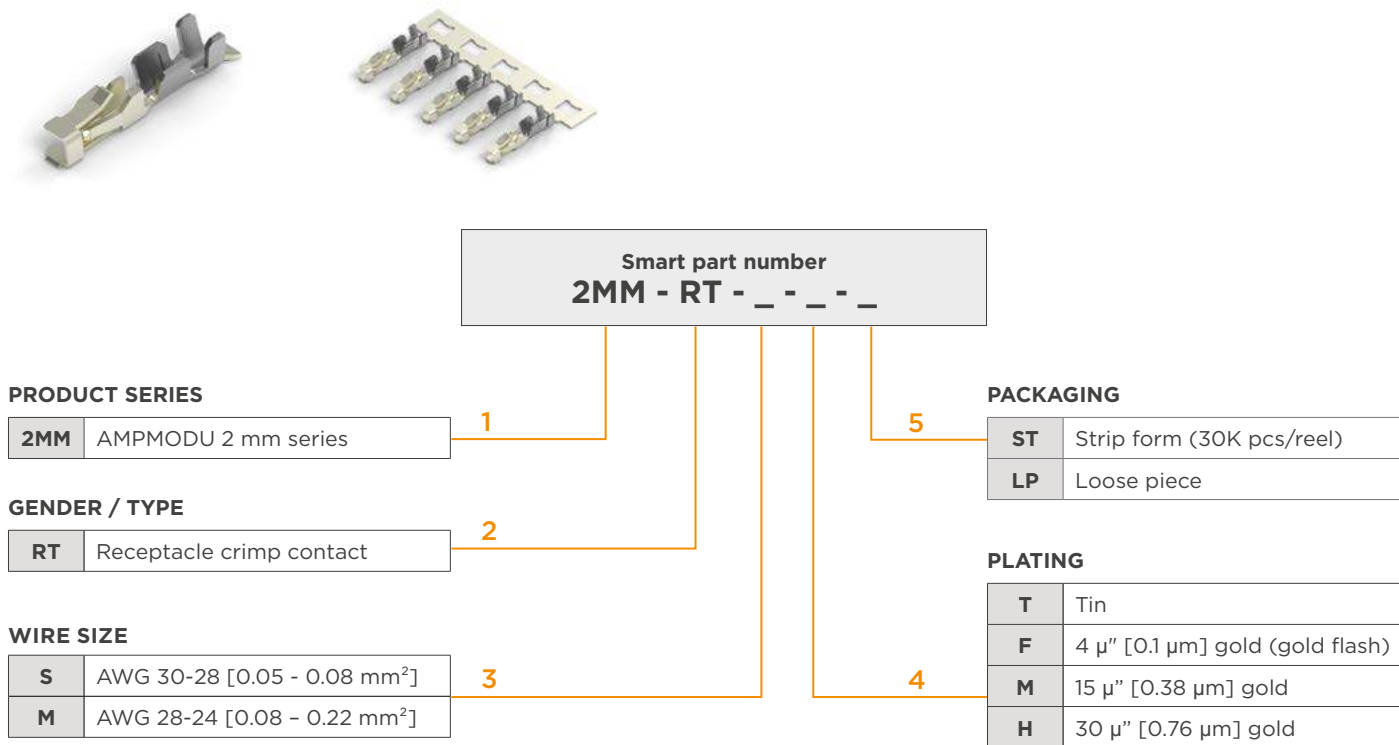
## DESIGN NAVIGATOR

| Housing style         | Number of rows | Number of positions per row    | Packaging method |
|-----------------------|----------------|--------------------------------|------------------|
| Standard (no latches) | Single row     | 02 thru 25                     | Box              |
|                       | Double row     | 02 thru 25 per row             |                  |
| With detent latches   | Single row     | 07 thru 16                     |                  |
|                       | Double row     | 07 thru 16, 20, 22, 25 per row |                  |
| With positive latch   | Single row     | 03 thru 16                     |                  |
|                       | Double row     | 03 thru 16 per row             |                  |

\* Tube packaging is available upon request.

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## RECEPTACLE CONTACT



### SMART PN EXAMPLES

- AMPMODU 2 mm, crimp receptacle contact, AWG 30 - 28, tin, 30kpcs/reel: 2MM-RT-S-T-ST

## APPLICATION TOOLING

| Tooling          | Images | Contact Package   | Contact AWG 30-28         | Contact AWG 28-24         |
|------------------|--------|---|---------------------------|---------------------------|
| Hand tool        |        | Loose Piece (LP)  | <a href="#">2326270-1</a> | <a href="#">2326267-1</a> |
| Ocean applicator |        | 30k pcs per/reel (ST)   | Upon request              | Upon request              |
| Extraction tool  |        | <a href="#">9-1579028-8</a><br><i>Suitable for all receptacles - to disengage locking lance from front window.</i>  |                           |                           |
|                  |        | <a href="#">843477-3</a><br><i>Suitable for standard and detent latch receptacles only - to disengage locking lance from side, top or bottom windows.</i> |                           |                           |

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