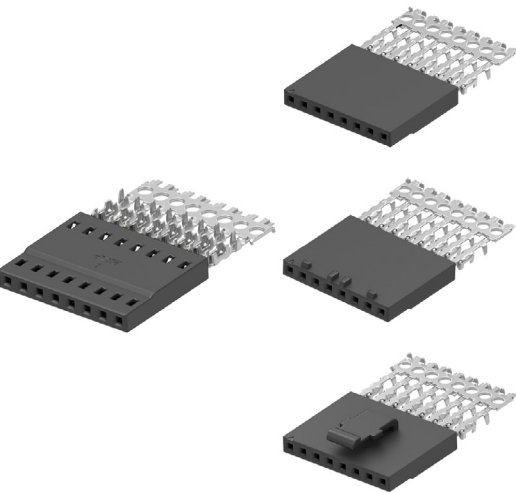




## AMPMODU 2 mm WIRE-TO-BOARD IDC RECEPTACLE PLATFORM

TE Connectivity's (TE) AMPMODU 2 mm [0.079"] connectors reliably and economically meet the packaging and interconnection requirements of today's miniature sophisticated electronics, occupying 38% less space than traditional 2.54 mm [0.100"] centerline connectors. This AMPMODU 2 mm receptacle assembly has been designed with pre-loaded discrete wire Insulation Displacement Contacts (IDC), enabling fast termination without the need to strip the wire. The wire can be applied with a manual or pneumatic pistol grip tool, which has a low implementation cost and is easy to operate. In addition, based on vibration levels the product is going to be exposed to, customers can select housings without latches, with detent latches or a positive latch. IDC is an alternative solution to our AMPMODU 2 mm crimp snap-in product.

### BENEFITS

- 38% space savings as compared to traditional 2.54 mm [0.100"] centerline connectors
- Reliable signal transfer in high vibration environments with detent and positive latching variants
- Proper locking supported by an audible click of a positive latch
- Fast termination/installation without need to strip the wire
- Low application cost and time savings with TE recommended pistol grip tooling
- Interchangeable IDC and crimp snap-in contacts allow for easier replacement of damaged/faulty contacts
- IDC and crimp receptacles mate with the same headers

# AMPMODU 2 mm Wire-to-Board IDC Receptacle Platform

---

## FEATURE

- **Centerline:** 2 mm [0.079"]
- **Termination:** Pre-loaded insulation displacement contacts
- **Wire size:** Discrete wire, 30 - 26 AWG
- **Connector size:** Single row, position sizes vary based on latching variant
- **Application tooling:** Manual and pneumatic pistol grip termination tool

## APPLICATIONS

- PLC/IO devices
- Servo drives
- Industrial controls
- Material handling equipment
- Instrumentation and test equipment
- Building and factory automation devices
- Energy storage systems
- Robotics

## ELECTRICAL

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

## MECHANICAL

- **Operating temperature:**
  - -40°C to 105°C (tin plated)
  - -40°C to 125°C (gold plated)
- **Vibration and shock [50g]:** No electrical discontinuity greater than 1 microsecond

## MATERIALS

- **Plating:**
  - 30 μ" [0.76 μm] gold
  - 15 μ" [0.38 μm] gold
  - 4 μ" [0.1 μm] gold flash (N/A with positive latch)
  - Tin
- **Contact material:** Phosphor bronze
- **Housing material:** High - temperature plastic (LCP), black
- **Environmental:** UL94 V0, low halogen
- Operating environment class III

## STANDARDS

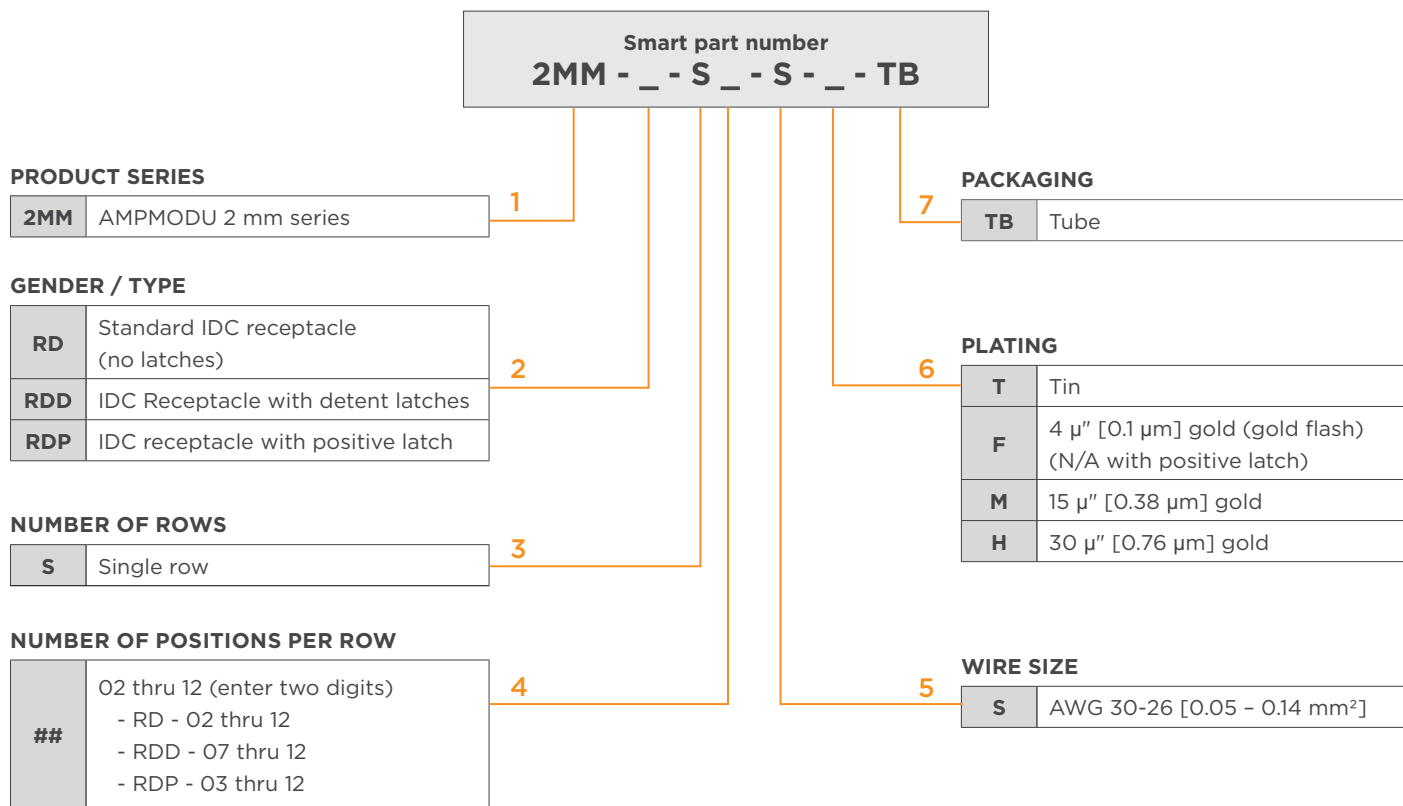
- RoHS & REACH compliant
- cURus: Pending

## SPECIFICATIONS

- **Product specification:** [108-64040-2](#)
- **Application specification:** [114-32175](#)

# AMPMODU 2 mm Wire-to-Board IDC Receptacle Platform

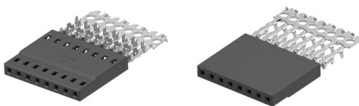
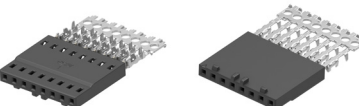
## SMART PART NUMBER DEFINITION



### SMART PN EXAMPLES

- AMPMODU 2 mm, IDC receptacle with positive latch, single row, 7 positions (1 x 7), AWG 30 - 26, 30μ" [0.76 μm] gold, tube: **2MM-RDP-S07-S-H-TB**

## RECEPTACLE HOUSINGS

| Type                  | Images                                                                              | Wire size                      | Plating              | Number of positions |
|-----------------------|-------------------------------------------------------------------------------------|--------------------------------|----------------------|---------------------|
| Standard (no latches) |  | AWG 30-26<br>[0.05 – 0.14 mm²] | 30 μ" [0.76 μm] gold | 02 thru 12          |
|                       |                                                                                     |                                | 15 μ" [0.38 μm] gold |                     |
|                       |                                                                                     |                                | 4 μ" [0.1 μm] gold   |                     |
|                       |                                                                                     |                                | Tin                  |                     |
| With detent latches   |  |                                | 30 μ" [0.76 μm] gold | 07 thru 12          |
|                       |                                                                                     |                                | 15 μ" [0.38 μm] gold |                     |
|                       |                                                                                     |                                | 4 μ" [0.1 μm] gold   |                     |
|                       |                                                                                     |                                | Tin                  |                     |
| With positive latch   |  |                                | 30 μ" [0.76 μm] gold | 03 thru 12          |
|                       |                                                                                     |                                | 15 μ" [0.38 μm] gold |                     |
|                       |                                                                                     |                                | Tin                  |                     |

## AMPMODU 2 mm Wire-to-Board IDC Receptacle Platform

### APPLICATION TOOLING

| Tooling                    | Images                                                                            | TE PN                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminating head*          |  | <a href="#">2326300-1</a>                                                                                                                                 |
| Pistol grip manual handle* |  | <a href="#">58074-1</a>                                                                                                                                   |
| Pneumatic handle*          |  | <a href="#">58075-1</a>                                                                                                                                   |
| 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> |

\*Terminating head needs to be used with the manual or pneumatic handle.

**te.com**

© 2023 TE Connectivity. All Rights Reserved.

AMPMODU, TE Connectivity, TE connectivity (logo) and EVERY CONNECTION COUNTS are trademarks owned or licensed by TE Connectivity. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

08/23 VL