

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

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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

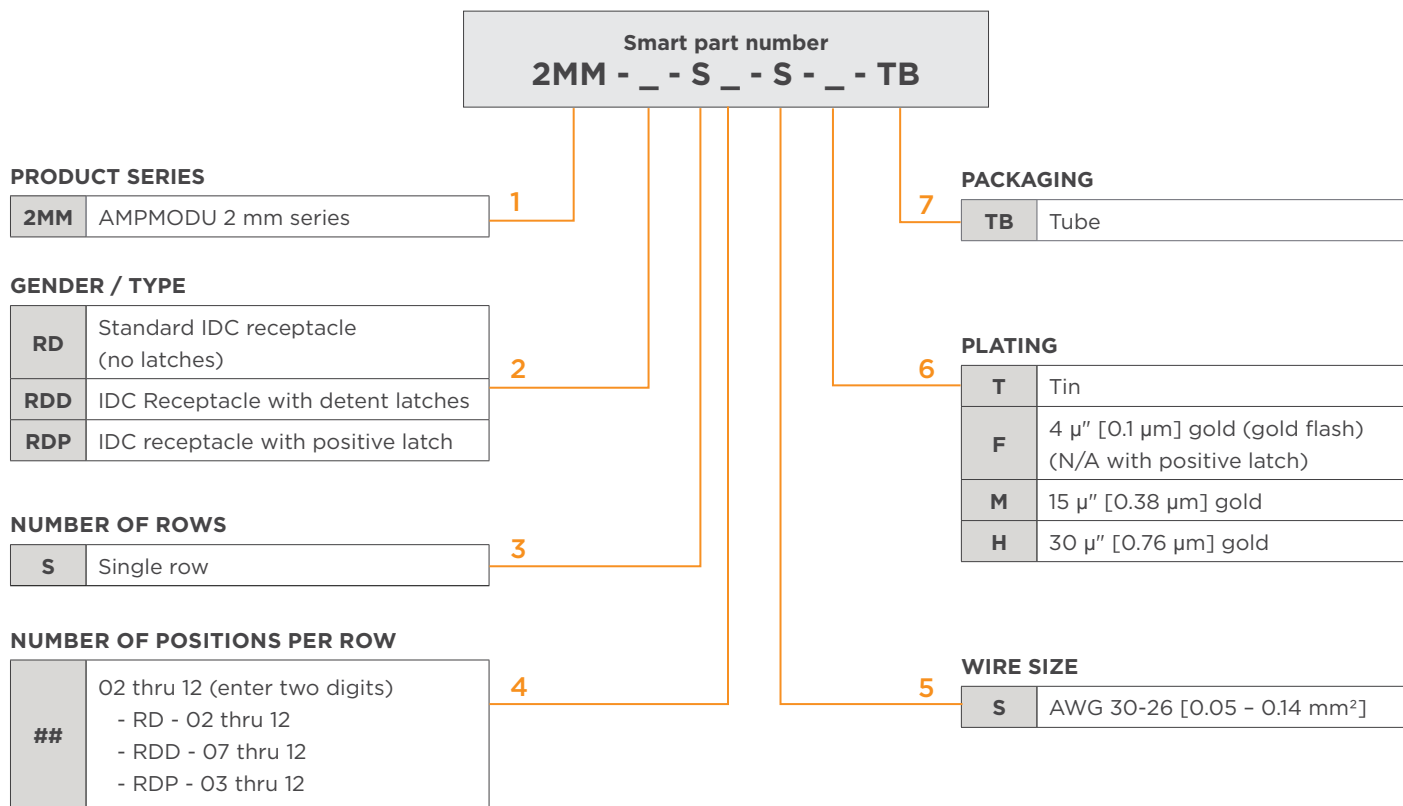
- RoHS & REACH compliant
- cURus: Pending

SPECIFICATIONS

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

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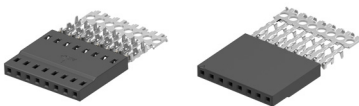
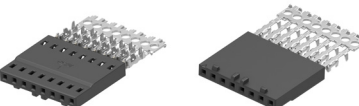

SMART PART NUMBER DEFINITION



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 [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	

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APPLICATION TOOLING

Tooling	Images	TE PN
Terminating head*		2326300-1
Pistol grip manual handle*		58074-1
Pneumatic handle*		58075-1
Extraction tool		9-1579028-8 <i>Suitable for all receptacles – to disengage locking lance from front window.</i>
		843477-3 <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.

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