



AMPMODU 2mm WIRE-TO-BOARD CRIMP RECEPTACLES

TE Connectivity's (TE) AMPMODU 2mm connectors reliably and economically meet the packaging and interconnection requirements of today's miniature sophisticated electronics, occupying 38 percent less space on a PCB than traditional 2.54mm [0.100"] centerline connectors. The new Wire-to-Board crimp receptacle family includes standard and detent latching housing styles along with contacts for wire ranges 30 - 24AWG [0.05 - 0.22mm²]. 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 latches 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 2mm crimp receptacle family can meet a wide variety of customer requirements.

BENEFITS

- 38% space savings on PCB board as compared to the traditional 2.54mm [0.100"] centerline connectors
- Reliable connection in high vibration environments with a detent latching variant
- Design flexibility with various crimp terminal options for wire sizes 30 - 24AWG [0.05 - 0.22mm²]
- Easy wire termination with manual or automatic TE-recommended tooling

APPLICATIONS

- PLC/IO Devices
- Servo Drives
- Material Handling Equipment
- Building and Home Automation Devices
- Industrial Controls
- Robotics
- Instrumentation and Test Equipment

AMPMODU 2mm Wire-to-Board Crimp Receptacles

ELECTRICAL

- **Current Rating:** 2A (max.)
- **Dielectric Withstanding Voltage:** 650VAC
- **Operating Voltage:** 125Vrms (max.)

SPECIFICATIONS

- **Product specification:** [108-64040-1](#)
- **Application specification:** [114-32173](#)
- RoHS & REACH compliant
- UL and CSA certified
- 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:**
 - 30µ" [0.76µm] gold
 - 15µ" [0.38µm] gold
 - 4µ" [0.1µm] gold flash
 - Tin
- **Contact Material:** Phosphor bronze
- **Housing Material:** High-temperature plastic (LCP), black
- **Environmental:** UL94V0, low halogen
- Operating environment class III

RECEPTACLE HOUSINGS

Housing Style		Position Size	TE Base Part Number	Packaging Method*
Single Row Standard		2 - 25	2316102	Box
Double Row Standard		4 - 50	2316108	Box
Double Row w/ Detent Latches		14 - 32, 40, 44, 50	2316109	Box

* Tube Packaging is available upon request.



PART NUMBER DEFINITION

Single Row			
Positions	Part Number	Positions	Part Number
2	xxxxxxx-2	14	1-xxxxxxx-4
3	xxxxxxx-3	15	1-xxxxxxx-5
4	xxxxxxx-4	16	1-xxxxxxx-6
5	xxxxxxx-5	17	1-xxxxxxx-7
6	xxxxxxx-6	18	1-xxxxxxx-8
7	xxxxxxx-7	19	1-xxxxxxx-9
8	xxxxxxx-8	20	2-xxxxxxx-0
9	xxxxxxx-9	21	2-xxxxxxx-1
10	1-xxxxxxx-0	22	2-xxxxxxx-2
11	1-xxxxxxx-1	23	2-xxxxxxx-3
12	1-xxxxxxx-2	24	2-xxxxxxx-4
13	1-xxxxxxx-3	25	2-xxxxxxx-5

Double Row			
Positions	Part Number	Positions	Part Number
4 (2x2)	xxxxxxx-4	28 (14x2)	2-xxxxxxx-8
6 (3x2)	xxxxxxx-6	30 (15x2)	3-xxxxxxx-0
8 (4x2)	xxxxxxx-8	32 (16x2)	3-xxxxxxx-2
10 (5x2)	1-xxxxxxx-0	34 (17x2)	3-xxxxxxx-4
12 (6x2)	1-xxxxxxx-2	63 (18x2)	3-xxxxxxx-6
14 (7x2)	1-xxxxxxx-4	38 (19x2)	3-xxxxxxx-8
16 (8x2)	1-xxxxxxx-6	40 (20x2)	4-xxxxxxx-0
18 (9x2)	1-xxxxxxx-8	42 (21x2)	4-xxxxxxx-2
20 (10x2)	2-xxxxxxx-0	44 (22x2)	4-xxxxxxx-4
22 (11x2)	2-xxxxxxx-2	46 (23x2)	4-xxxxxxx-6
24 (12x2)	2-xxxxxxx-4	48 (24x2)	4-xxxxxxx-8
26 (13x2)	2-xxxxxxx-6	50 (25x2)	5-xxxxxxx-0

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RECEPTACLE CONTACTS

Wire size	Drawing	Plating	Packaging Method		
			Loose Piece	500-pc Reel	30K-pc Reel
AWG 28 -24 [0.08 - 0.22mm ²] 	2316113	30μ" [0.76μm] Gold	5-2316113-6	2316113-5	5-2316113-5
		15μ" [0.38μm] Gold	4-2316113-5	2316113-4	4-2316113-4
		4μ" [0.1μm] Gold Flash	3-2316113-4	2316113-3	3-2316113-3
		Tin	2-2316113-3	2316113-2	2-2316113-2
AWG 30 - 28 [0.05 - 0.08mm ²] 	2316114	30μ" [0.76μm] Gold	5-2316114-6	2316114-5	5-2316114-5
		15μ" [0.38μm] Gold	4-2316114-5	2316114-4	4-2316114-4
		4μ" [0.1μm] Gold Flash	3-2316114-4	2316114-3	3-2316114-3
		Tin	2-2316114-3	2316114-2	2-2316114-2

APPLICATION TOOLING

Tooling	Contact 2316113 [AWG 28 - 24]	Contact 2316114 [AWG 30 - 28]	Recommended Packaging
Hand Tool	2326267-1	2326270-1	Loose Piece
Pistol Grip	539608-1	Upon Request	500-pc Reel
Ocean Applicator	Upon Request	Upon Request	30K-pc Reel
Extraction Tool	9-1579028-8		N/A

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