

AMPMODU 2 mm INTERCONNECTION SYSTEM

Quick Reference Guide

AMPMODU 2 mm INTERCONNECTION SYSTEM

TE Connectivity (TE)'s AMPMODU 2 mm interconnection system reliably and economically meets the requirements of today's miniature, sophisticated electronics. This system is ideal for space constrained environments and offers a wide portfolio with design features that enable reliable signal transfers in demanding applications.

TE's compact 2 mm design enables space savings, providing designers with greater overall flexibility.

The AMPMODU 2 mm system occupies 38% less space on a printed circuit board as compared to traditional 2.54 mm centerline connectors. This connector system is available in both board-to-board and wire-to-board mating options and utilizes a dual-beam contact design to enable 2 points of contact for increased signal reliability.

The AMPMODU 2 mm connection system is available in 4 types of plating options: 30 μ " [0.76 μ m] gold, 15 μ " [0.38 μ m] gold, 4 μ " [0.1 μ m] gold flash, and tin. All 2 mm board-mount connectors are offered in single and double row versions and vertical and horizontal orientations for both headers and receptacles. Surface mount and through-hole mounting options are available with the capability to support reflow solder processes up to 260°C.

Board-mount connectors can be packaged in tape and reel to support automated assembly processes, or in tubes, which may be ideal in manual assembly environments. AMPMODU 2 mm wire-to-board connectors are available without latches, and with detent or positive latches for high-vibrations applications that demand more secure electrical connections. Wire-mount receptacles are offered with two options for discrete wire termination - crimp snap-in contacts and insulation displacement contacts (IDC). Additionally, wire termination is easily accomplished with TE-designed application tooling.

The AMPMODU 2 mm interconnection system is the clear choice for demanding Industrial applications, offering a comprehensive, economical, and reliable connector portfolio.

FEATURES

- Centerline: 0.079" [2 mm]
- 0.020" [0.50 mm] square pins for headers
- Dual-beam receptacle contact
- Multiple solder tail lengths for various PCB thicknesses, 0.063" to 0.094" [1.6 mm to 2.4 mm]
- High temperature plastic (LCP) housing
- Board connectors available in tube and tape & reel packaging
- Up to 25 positions per row, single and dual row offering
- Wire termination: crimp and IDC
- Wire size:
 - Crimp contacts: AWG 30 - 24
 - IDC: AWG 30 - 26
- Environmental: UL94V0, low halogen

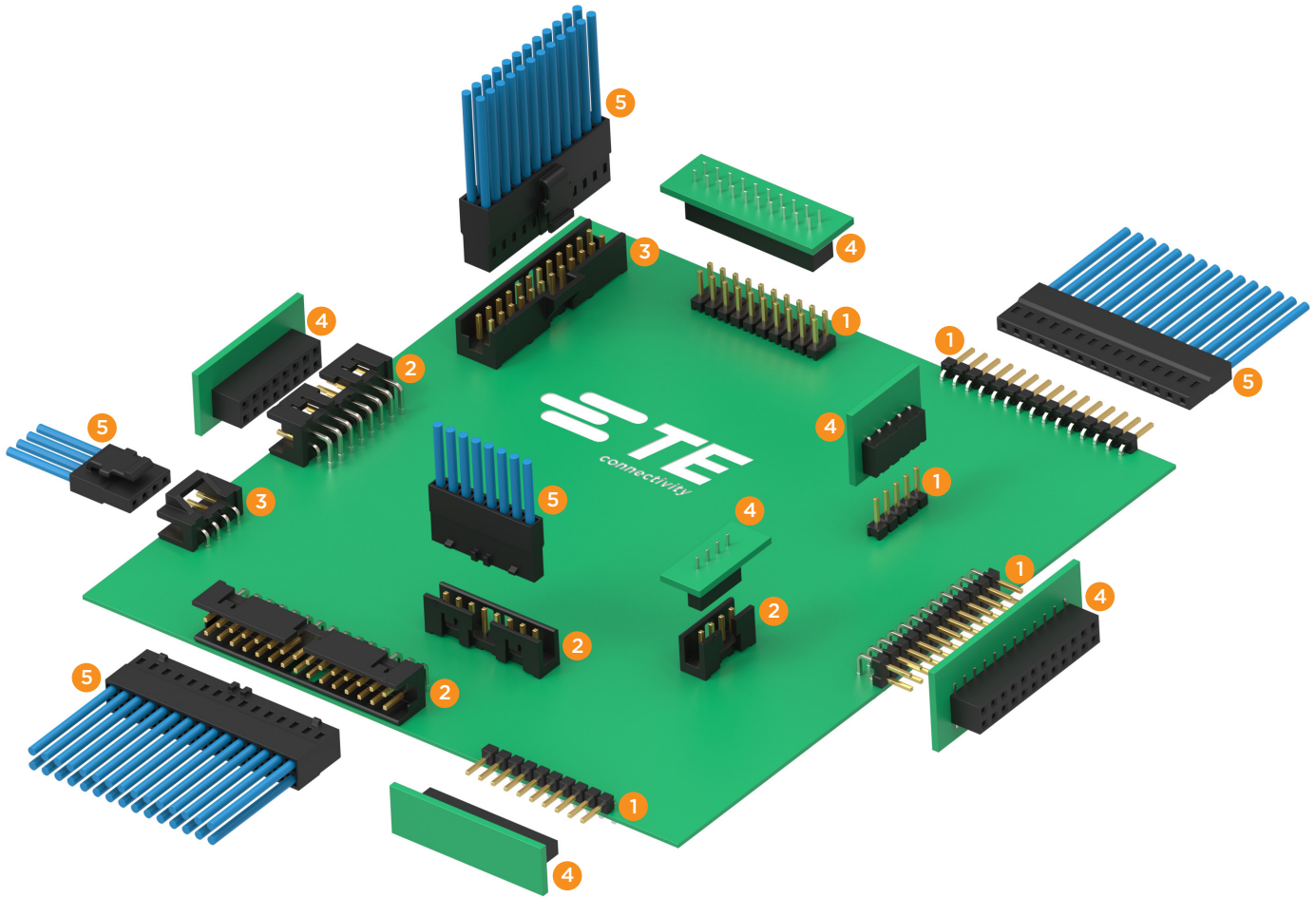
APPLICATIONS

- PLC
- I/O devices
- Servo drives
- Robotics
- Automated guided vehicles
- Material handling equipment
- Industrial controls
- Instrumentation and test equipment
- Building automation devices
- Medical equipment
- Energy storage systems

BENEFITS

- Occupies 38% less space on PCB board compared with 0.100" [2.54 mm] centerline
- Two-point electrical stability for reliable signal transfer
- Multiple options for Board-to-Board stacking by various header and receptacle combinations
- Ease of assembly with automated surface-mounting and through-hole reflow manufacturing
- Reliable connection in high vibration environments with detent and positive latching variants
- Ergonomic and easy mating/unmating process with positive latching variant
- Headers are intermateable with other major brand receptacles
- Design flexibility with various crimp terminal options
- Fast termination/installation without the need to strip the wire with IDC wire receptacles
- IDC and crimp receptacles mate with the same headers
- Interchangeable IDC and Crimp Snap-In contacts allow for easy replacement of damaged/faulty contacts

AMPMODU 2 mm INTERCONNECTION SYSTEM



1	BREAKAWAY HEADERS	Page 9 - 10
2	SHROUDED HEADERS W/ DETENT LATCHES	Page 11 - 12
3	SHROUDED HEADERS W/ POSITIVE LATCH	Page 13 - 14
4	BOARD RECEPTACLES	Page 15 - 16
5	CRIMP SNAP-IN RECEPTACLES	Page 17 - 19
	INSULATION DISPLACEMENT CONTACTS (IDC) RECEPTACLES	Page 20 - 22

AMPMODU 2 mm INTERCONNECTION SYSTEM

AMPMODU 2 mm INTERCONNECTION SYSTEM PERFORMANCE SPECIFICATIONS AND STANDARDS

MATERIALS

Housing	Liquid Crystal Polymer, UL 94V0, Black
Contact	Phosphor Bronze
Contact Plating	30μ" [0.76 μm] Gold
	15μ" [0.38 μm] Gold
	4μ" [0.1 μm] Gold
	Tin

ELECTRICAL

Voltage Rating	125 Vrms (max.)
Current Rating	2 A (max.)
Operating Temperature	Tin Plating: -40 to +105°C
	Gold Plating: -40 to +125°C
Dielectric Withstanding Voltage	650 VAC
Temperature Rise	30°C@1.6A

SPECIFICATIONS AND APPROVALS

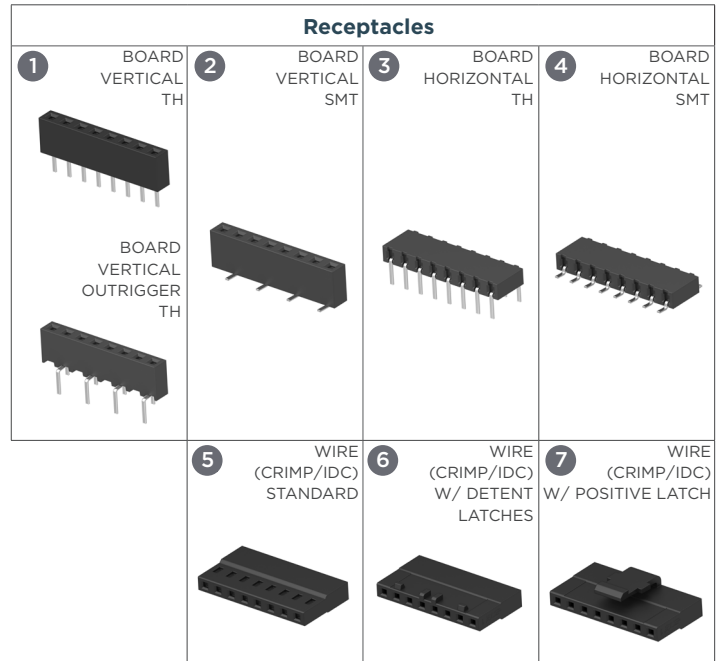
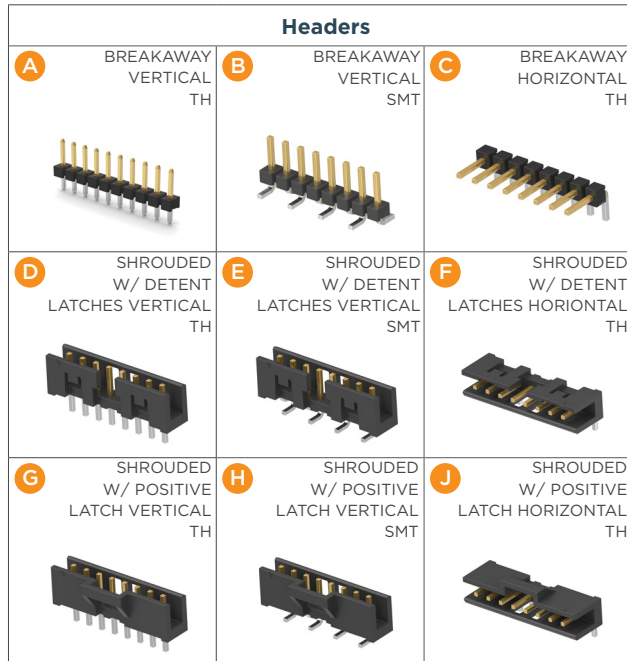
Certifications and Approvals	RoHS
	REACH
	cURus: Pending
Product Specification	Headers: <u>108-64040</u>
	Board Receptacles: <u>108-64040</u>
	Crimp Snap-In Receptacles: <u>108-64040-1</u>
	IDC Receptacles: <u>108-64040-2</u>
Application Specification	Headers: <u>114-64040</u>
	Board Receptacles: <u>114-32186</u>
	Crimp Snap-In Receptacles: <u>114-32173</u>
	IDC Receptacles: <u>114-32175</u>

MECHANICAL

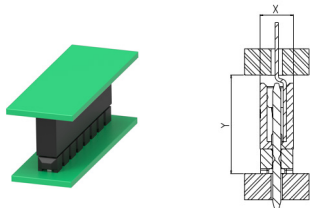
Durability	30μ" [0.76 μm] Gold: 250 cycles
	15μ" [0.38 μm] Gold: 100 cycles
	4μ" [0.1 μm] Gold: 50 cycles
	Tin: 25 cycles
Connector Mating/Unmating Force	Mating: 2.2 N max.
	Unmating: 0.2 N min.
Contact Retention Force in Housing (Board Connectors)	5 N min.
Contact Retention Force in Housing (Wire Receptacles)	10 N min.
Vibration	No electrical discontinuity greater than 1 microsecond under 10-55-10 Hz traversed in minute at 1.52 mm amplitude
Shock	No electrical discontinuity greater than 1 microsecond by 50 G acceleration
Latch Durability	25 cycles
Positive Latch Engage/Disengage Force (without Contacts)	Engage: 6 N max.
	Disengage: 20 N min.
Solderability	Reflow Solderable, Capable up to 260°C

AMPMODU 2 mm INTERCONNECTION SYSTEM

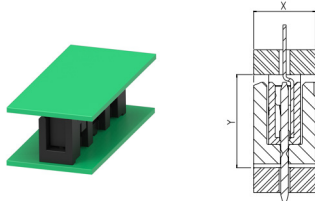
CONFIGURATIONS



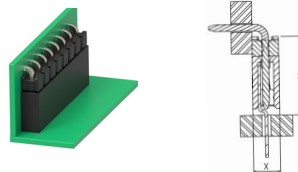
BOARD-TO-BOARD



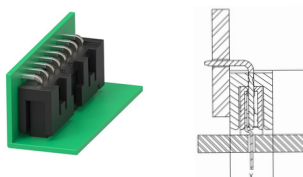
Application		X (Single row)	X (Double row)	Y
Parallel boards - vertical board receptacle and vertical shrouded header	A 1	0.083" [2.10 mm]	0.161" [4.10 mm]	0.236" [6.00 mm]
	B 1	0.083" [2.10 mm]	0.161" [4.10 mm]	0.285" [7.25 mm]
	A 2	0.083" [2.10 mm]	0.161" [4.10 mm]	0.244" [6.20 mm]
	B 2	0.083" [2.10 mm]	0.161" [4.10 mm]	0.293" [7.45 mm]



Application		X (Single row)	X (Double row)	Y
Parallel boards - vertical board receptacle and vertical shrouded header	D 1	0.157" [4.00 mm]	0.244" [6.20 mm]	0.236" [6.00 mm]
	E 1	0.157" [4.00 mm]	0.244" [6.20 mm]	0.285" [7.25 mm]
	D 2	0.157" [4.00 mm]	0.244" [6.20 mm]	0.244" [6.20 mm]
	E 2	0.157" [4.00 mm]	0.244" [6.20 mm]	0.293" [7.45 mm]



Application		X (Single row)	X (Double row)	Y
Perpendicular boards - vertical board receptacle and horizontal breakaway header	C 1	0.083" [2.10 mm]	0.161" [4.10 mm]	0.236" [6.00 mm]
	C 2	0.083" [2.10 mm]	0.161" [4.10 mm]	0.244" [6.20 mm]

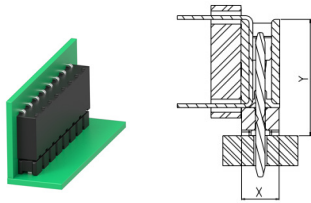


Application		X (Single row)	X (Double row)	Y
Perpendicular boards - vertical board receptacle and horizontal shrouded header	F 1	0.157" [4.00 mm]	0.244" [6.20 mm]	0.236" [6.00 mm]
	F 2	0.157" [4.00 mm]	0.244" [6.20 mm]	0.244" [6.20 mm]

AMPMODU 2 mm INTERCONNECTION SYSTEM

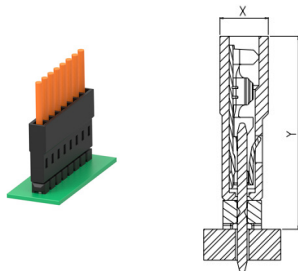
CONFIGURATIONS - CONTINUED

BOARD-TO-BOARD

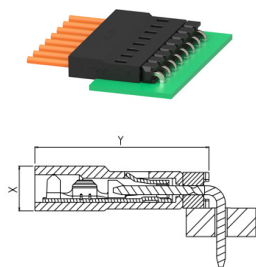


Application		X (Single row)	X (Double row)	Y
Perpendicular boards - horizontal board receptacle and vertical breakaway header	A 3	0.083" [2.10 mm]	0.161" [4.10 mm]	0.244" [6.20 mm]
	B 3	0.083" [2.10 mm]	0.161" [4.10 mm]	0.293" [7.45 mm]
	A 4	0.093" [2.35 mm]	0.172" [4.36 mm]	0.244" [6.20 mm]
	B 4	0.093" [2.35 mm]	0.172" [4.36 mm]	0.293" [7.45 mm]

WIRE-TO-BOARD



Application		Crimp		IDC	
Application	Row	X	Y	X	Y
		Perpendicular to PCB - non- latching solution - breakaway header and standard wire receptacle (no latches)	Single row	0.099" [2.51 mm]	0.394" [10.00 mm]
Double row	0.185" [4.70 mm]		0.394" [10.00 mm]	-	-
A 5	Single row	0.099" [2.51 mm]	0.443" [11.25 mm]	0.094" [2.4 mm]	0.62" [15.75 mm]
	Double row	0.185" [4.70 mm]	0.443" [11.25 mm]	-	-

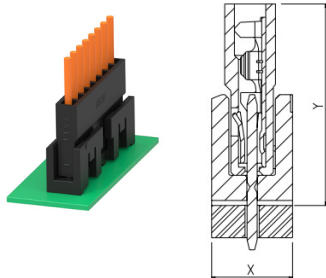


Application		Crimp		IDC	
Application	Row	X	Y	X	Y
		Parallel to PCB - non-latching solution - breakaway header and standard wire receptacle (no latches)	Single row	0.099" [2.51 mm]	0.394" [10.00 mm]
Double row	0.185" [4.70 mm]		0.394" [10.00 mm]	-	-

AMPMODU 2 mm INTERCONNECTION SYSTEM

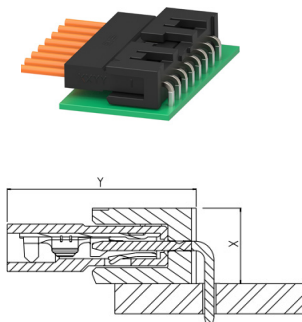
CONFIGURATIONS - CONTINUED

WIRE-TO-BOARD



Application	Row	Crimp		IDC	
		X	Y	X	Y
Perpendicular to PCB - non-latching solution - shrouded header with detent latches and standard wire receptacle (no latches)	D 5	0.157" [4.00 mm]	0.394" [10.00 mm]	0.157" [4.00 mm]	0.57" [14.50 mm]
	Double row	0.244" [6.20 mm]	0.394" [10.00 mm]	-	-
E 5	Single row	0.157" [4.00 mm]	0.443" [11.25 mm]	0.157" [4.00 mm]	0.62" [15.75 mm]
	Double row	0.244" [6.20 mm]	0.443" [11.25 mm]	-	-

Application	Row	Crimp		IDC	
		X	Y	X	Y
Perpendicular to PCB - detent latching solutions - shrouded header with detent latches and wire receptacle with detent latches	D 6	0.157" [4.00 mm]	0.394" [10.00 mm]	0.157" [4.00 mm]	.57" [14.50 mm]
	Double row	0.244" [6.20 mm]	0.394" [10.00 mm]	-	-
E 6	Single row	0.157" [4.00 mm]	0.443" [11.25 mm]	0.157" [4.00 mm]	0.62" [15.75 mm]
	Double row	0.244" [6.20 mm]	0.443" [11.25 mm]	-	-



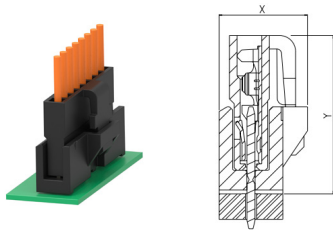
Application	Row	Crimp		IDC	
		X	Y	X	Y
Parallel to PCB - non-latching solution - shrouded header with detent latches and standard wire receptacle (no latches)	F 5	0.157" [4.00 mm]	0.394" [10.00 mm]	0.157" [4.00 mm]	0.57" [14.50 mm]
	Double row	0.244" [6.20 mm]	0.394" [10.00 mm]	-	-

Application	Row	Crimp		IDC	
		X	Y	X	Y
Parallel to PCB - detent latching solution - shrouded header with detent latches and wire receptacle with detent latches	F 6	0.157" [4.00 mm]	0.394" [10.00 mm]	0.157" [4.00 mm]	0.57" [14.50 mm]
	Double row	0.244" [6.20 mm]	0.394" [10.00 mm]	-	-

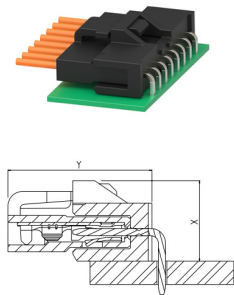
AMPMODU 2 mm INTERCONNECTION SYSTEM

CONFIGURATIONS - CONTINUED

WIRE-TO-BOARD



Application	Row	Crimp		IDC	
		X	Y	X	Y
Perpendicular to PCB - positive latching solution - shrouded header with positive latch wire and wire receptacle with positive latch	Single row	0.218" [5.54 mm]	0.394" [10.00 mm]	0.218" [5.54 mm]	0.57" [14.50 mm]
	Double row	0.305" [7.74 mm]	0.394" [10.00 mm]	-	-
G 7	Single row	0.218" [5.54 mm]	0.443" [11.25 mm]	0.218" [5.54 mm]	0.62" [15.75 mm]
	Double row	0.305" [7.74 mm]	0.443" [11.25 mm]	-	-



Application	Row	Crimp		IDC	
		X	Y	X	Y
Parallel to PCB - positive latching solution - shrouded header with positive latch and wire receptacle with positive latch	Single row	0.218" [5.54 mm]	0.394" [10.00 mm]	0.218" [5.54 mm]	0.57" [14.50 mm]
	Double row	0.305" [7.74 mm]	0.394" [10.00 mm]	-	-
J 7	Single row	0.218" [5.54 mm]	0.443" [11.25 mm]	0.218" [5.54 mm]	0.62" [15.75 mm]
	Double row	0.305" [7.74 mm]	0.443" [11.25 mm]	-	-

AMPMODU 2 mm INTERCONNECTION SYSTEM

BREAKAWAY HEADERS

SMART PART NUMBER DEFINITION



PRODUCT SERIES

2MM	AMPMODU 2 mm series
------------	---------------------

GENDER / TYPE

HB	Breakaway headers
-----------	-------------------

NUMBER OF ROWS

S	Single row
D	Double row

NUMBER OF PINS PER ROW

##	02 thru 25 per row (enter two digits)
-----------	--

ORIENTATION & TERMINATION

VT	Vertical through hole
VS	Vertical surface mount
HT	Horizontal through hole

*see table DESIGN NAVIGATOR for guidance

PACKAGING

TB	Tube without cap
TBP	Tube with cap (N/A for 2 and 3 positions per row)
TRP	Tape and reel with cap

*select allowable Packaging from table DESIGN NAVIGATOR

PLATING

T	Tin
F	4μ" [0.1 μm] Gold (gold flash)
M	15μ" [0.38 μm] Gold
H	30μ" [0.76 μm] Gold

TAIL LENGTH

00	N/A for surface mount
01	0.087" [2.2 mm]
02	0.110" [2.8 mm]

*select allowable Tail Length from table DESIGN NAVIGATOR

SMART PN EXAMPLES

- AMPMODU 2 mm, breakaway header, double row, 20 positions (2 x 10), vertical surface mount, tail length: N/A, tin, T&R with cap: **2MM-HB-D10-VS-00-T-TRP**

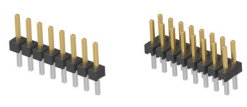
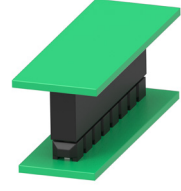

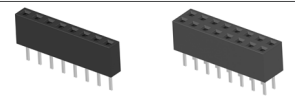
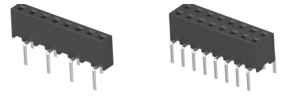
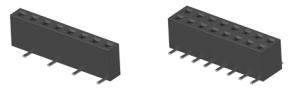

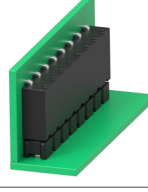
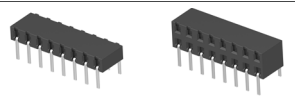
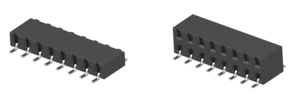
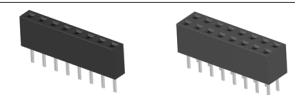
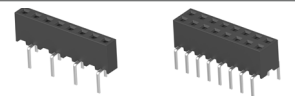
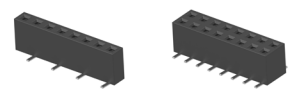
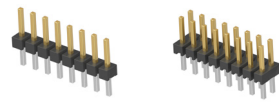
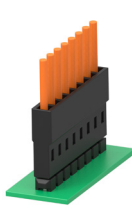
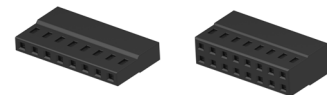
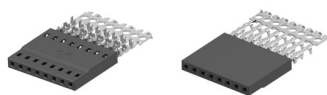



DESIGN NAVIGATOR

	Orientation & Termination	Tail Length		Packaging				
VT		01	0.087" [2.2 mm]	TB				
				TBP				
				TRP				
		02	0.110" [2.8 mm]	TB				
				TBP				
				TRP				
VS		00	-	TRP				
				TBP				
				HT		01	0.087" [2.2 mm]	TB
								TBP
02	0.110" [2.8 mm]	02	0.110" [2.8 mm]	TRP				
				TB				
				TBP				
				TRP				

AMPMODU 2 mm INTERCONNECTION SYSTEM

BREAKAWAY HEADERS

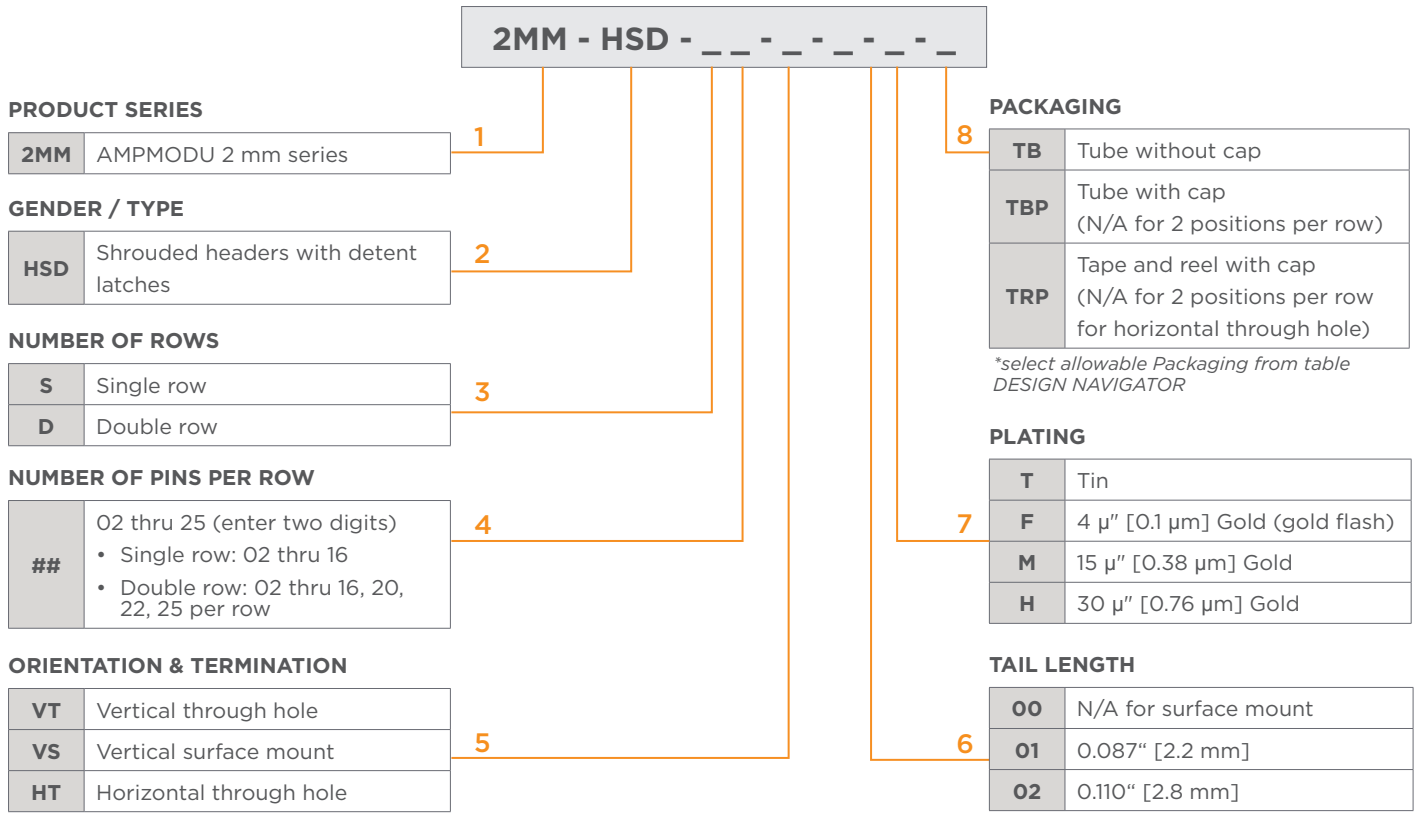
MATEABLE PARTS

Breakaway Headers	B-t-B Orientation	Mateable Receptacles				
Vertical Orientation 2MM - HB - __ - VT 	Parallel 	Vertical Board Receptacles		Page 15-16		
2MM - HB - __ - VS 		2MM - R - __ - VT 	2MM - R - __ - VTR 	2MM - R - __ - VS 		
Horizontal Orientation 2MM - HB - __ - HT 		Perpendicular 	Horizontal Board Receptacles		Page 15-16	
	2MM - R - __ - HT 		2MM - R - __ - HS 			
	2MM - R - __ - VT 		2MM - R - __ - VTR 	2MM - R - __ - VS 		
Breakaway Headers	W-t-B Orientation	Mateable Receptacles				
Vertical Orientation 2MM - HB - __ - VT 		Crimp Receptacles Page 17-19 2MM - RC - __  Standard (No Latches)	IDC Receptacles <i>Single row Only</i> Page 20-22 2MM - RD- __  Standard (No Latches)			
2MM - HB - __ - VS 						
Horizontal Orientation 2MM - HB - __ - HT 						

AMPMODU 2 mm INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH DETENT LATCHES

SMART PART NUMBER DEFINITION



*see table DESIGN NAVIGATOR for guidance

SMART PN EXAMPLES

- AMPMODU 2 mm, shrouded header with detent latches, single row, 8 positions (1 x 8), horizontal through hole, 2.8 mm tail length, 15μ" [0.38μm] gold, tube without cap: **2MM-HSD-S08-HT-02-M-TB**

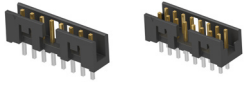
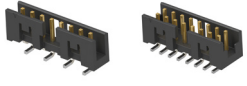
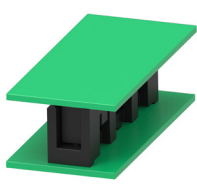
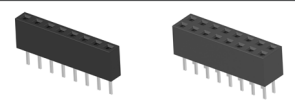
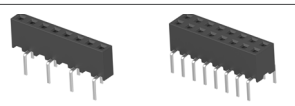
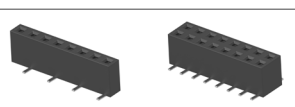
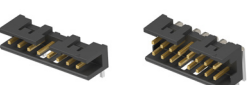
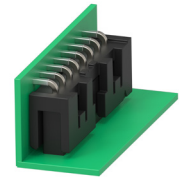
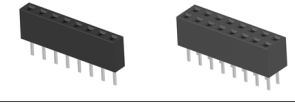
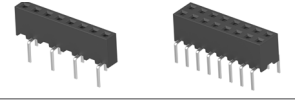
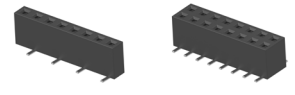
DESIGN NAVIGATOR

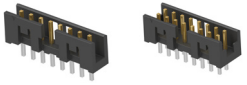
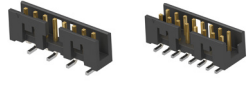
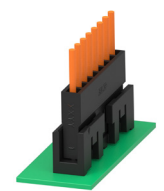
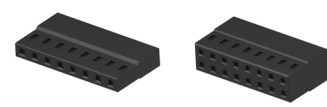
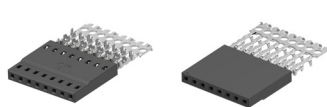
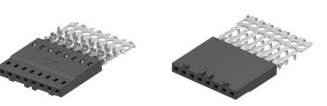
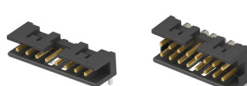
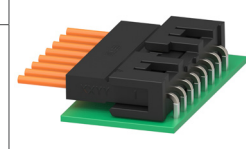
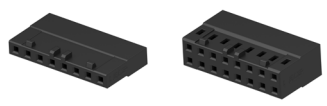
Orientation & Termination		Tail Length		Packaging
VT		01	0.087" [2.2 mm]	TB
				TBP
VS		00	-	TRP
				TBP
				TBP
HT		01	0.087" [2.2 mm]	TRP
				TBP
				TBP
		02	0.110" [2.8 mm]	TB
				TBP
				TRP

AMPMODU 2 mm INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH DETENT LATCHES

MATEABLE PARTS

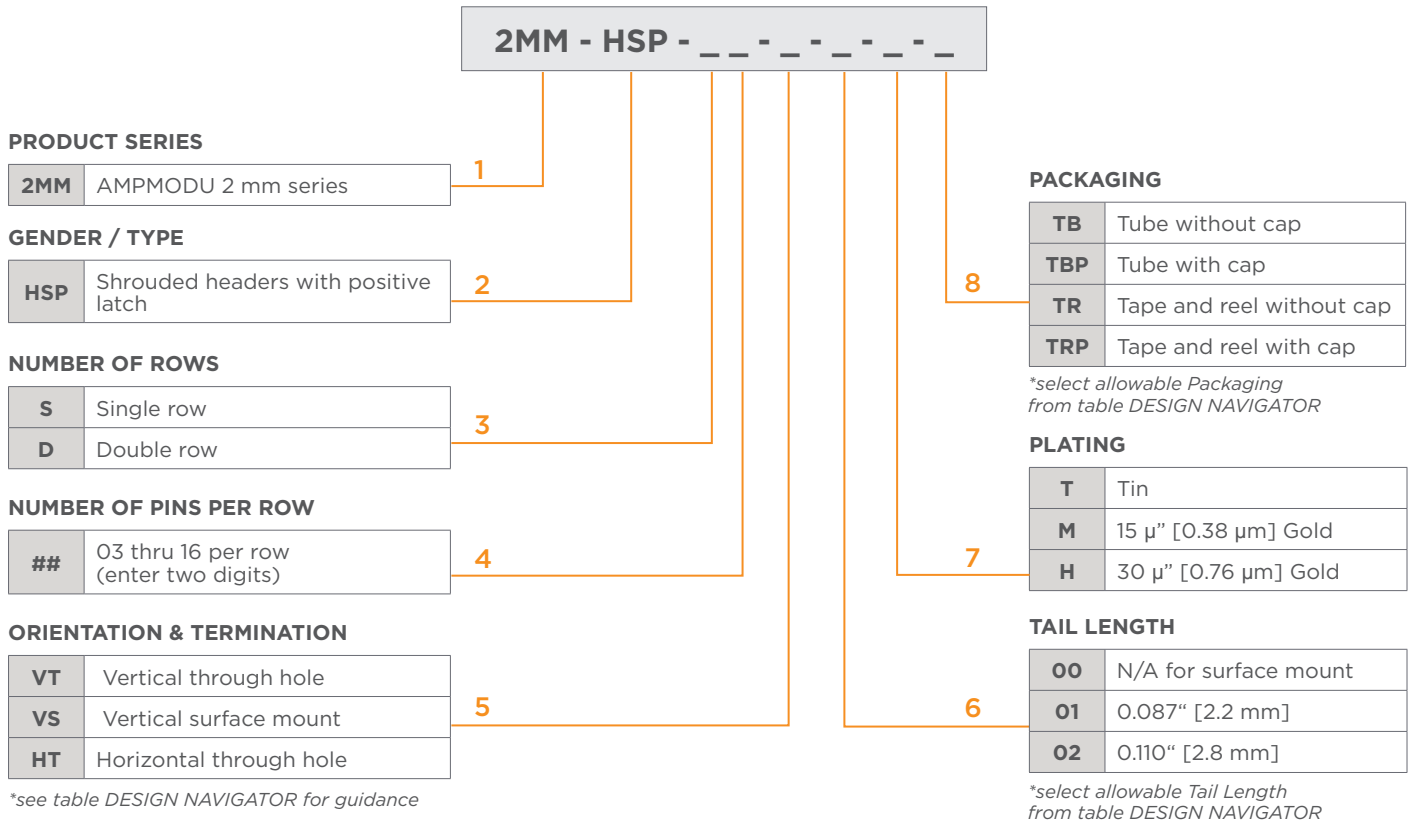
Shrouded Headers w/ Detent Latches	B-t-B Orientation	Mateable Receptacles	
Vertical Orientation 2MM - HSD - __ - VT  2MM - HSD - __ - VS 	Parallel 	Vertical Board Receptacles 2MM - R - __ - VT 2MM - R - __ - VTR 2MM - R - __ - VS	Page 15-16   
Horizontal Orientation 2MM - HSD - __ - HT 	Perpendicular 	Vertical Board Receptacles 2MM - R - __ - VT 2MM - R - __ - VTR 2MM - R - __ - VS	Page 15-16   

Shrouded Headers w/ Detent Latches	W-t-B Orientation	Mateable Receptacles			
		Crimp Receptacles	Page 17-19	IDC Receptacles <i>Single row Only</i>	Page 20-22
Vertical Orientation 2MM - HSD - __ - VT  2MM - HSD - __ - VS 		2MM - RC - __  Standard (No Latches)	2MM - RD - __  Standard (No Latches)	2MM - RDD - __  W/ Detent Latches	
Horizontal Orientation 2MM - HSD - __ - HT 					2MM - RCD - __  W/ Detent Latches

AMPMODU 2 mm INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH POSITIVE LATCH

SMART PART NUMBER DEFINITION



SMART PN EXAMPLES

- AMPMODU 2 mm, shrouded header with positive latch, double row, 16 positions (2 x 8), vertical through hole, 2.2 mm tail length, 30μ" [0.76μm] gold, tube without cap: **2MM-HSP-D08-VT-01-H-TB**


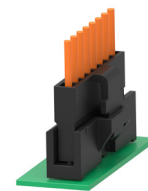

DESIGN NAVIGATOR

	Orientation & Termination	Tail Length		Packaging
VT		01	0.087" [2.2 mm]	TB
				TBP
		02	0.110" [2.8 mm]	TRP
				TB
VS		00	-	TRP
				TBP
HT		01	0.087" [2.2 mm]	TB
				TR
		02	0.110" [2.8 mm]	TB
				TR

AMPMODU 2 mm INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH POSITIVE LATCH

MATEABLE PARTS

Shrouded Headers w/ Positive Latch	W-t-B Orientation	Mateable Receptacles			
		Crimp Receptacles	Page 17-19	IDC Receptacles <i>Single row Only</i>	Page 20-22
Vertical Orientation 2MM - HSP - __ - VT  2MM - HSP - __ - VS 		2MM - RCP - __  W/ Positive Latch		2MM - RDP - __  W/ Positive Latch	
Horizontal Orientation 2MM - HSP - __ - HT 					

AMPMODU 2 mm INTERCONNECTION SYSTEM

BOARD RECEPTACLES

SMART PART NUMBER DEFINITION

2MM - R - _ - _ - _ - _ - _ - _ -

PRODUCT SERIES

2MM	AMPMODU 2 mm series	1
------------	---------------------	---

GENDER / TYPE

R	Receptacle	2
----------	------------	---

NUMBER OF ROWS

S	Single row	3
D	Double row	

NUMBER OF POSITIONS PER ROW

##	02 thru 25 per row (enter two digits)	4
-----------	--	---

ORIENTATION & TERMINATION

VT	Vertical through hole	5
VTR	Vertical through hole outrigger	
VS	Vertical surface mount	
HT	Horizontal through hole	
HS	Horizontal surface mount	

*see table DESIGN NAVIGATOR for guidance

SMART PN EXAMPLES

- AMPMODU 2 mm, board receptacle, double row, 8 positions (2 x 4), horizontal SMT, tail length: N/A, gold flash, T&R without cap: **2MM-R-D04-HS-00-F-TR**

PACKAGING

TB	Tube without cap
TBP	Tube with cap
TR	Tape and reel without cap
TRP	Tape and reel with cap

*select allowable Packaging from table DESIGN NAVIGATOR

PLATING

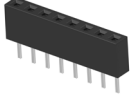
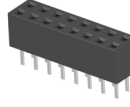
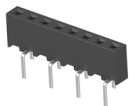
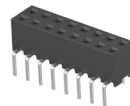
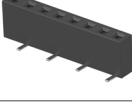
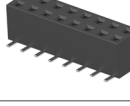
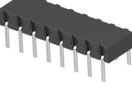
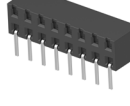

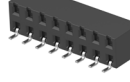
T	Tin
F	4μ" [0.1 μm] Gold (Gold flash)
M	15μ" [0.38 μm] Gold
H	30μ" [0.76 μm] Gold

TAIL LENGTH

00	N/A for surface mount
01	0.079 - 0.091" [2.0 - 2.3 mm]
02	0.106 - 0.110" [2.7 - 2.8 mm]
03	0.126 - 0.134" [3.2 - 3.4 mm]

*select allowable Tail Length from table DESIGN NAVIGATOR

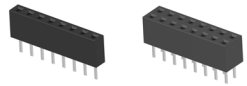
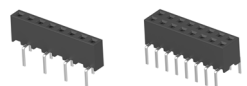
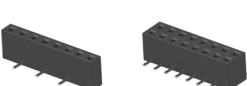
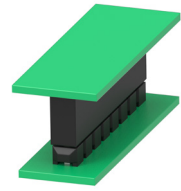
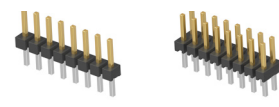

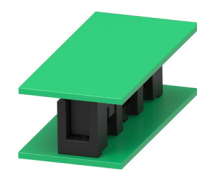
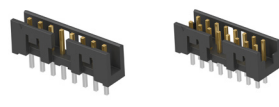

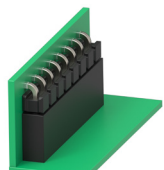

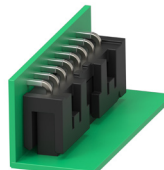

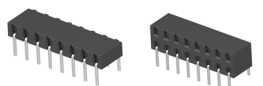

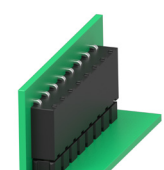
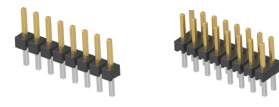

DESIGN NAVIGATOR

	Orientation & Termination		Tail Length		Packaging
VT			01	0.079" [2.0 mm]	TRP
					TBP
			02	0.106" [2.7 mm]	TRP
VTR					TBP
					TB
			03	0.126" [3.2 mm]	TB
VS			01	0.091" [2.3 mm]	TRP
					TBP
			02	0.110" [2.8 mm]	TBP
HT					TB
					TR
			03	0.134" [3.4 mm]	TB
HS			00	-	TB
					TR

AMPMODU 2 mm INTERCONNECTION SYSTEM

BOARD RECEPTACLES

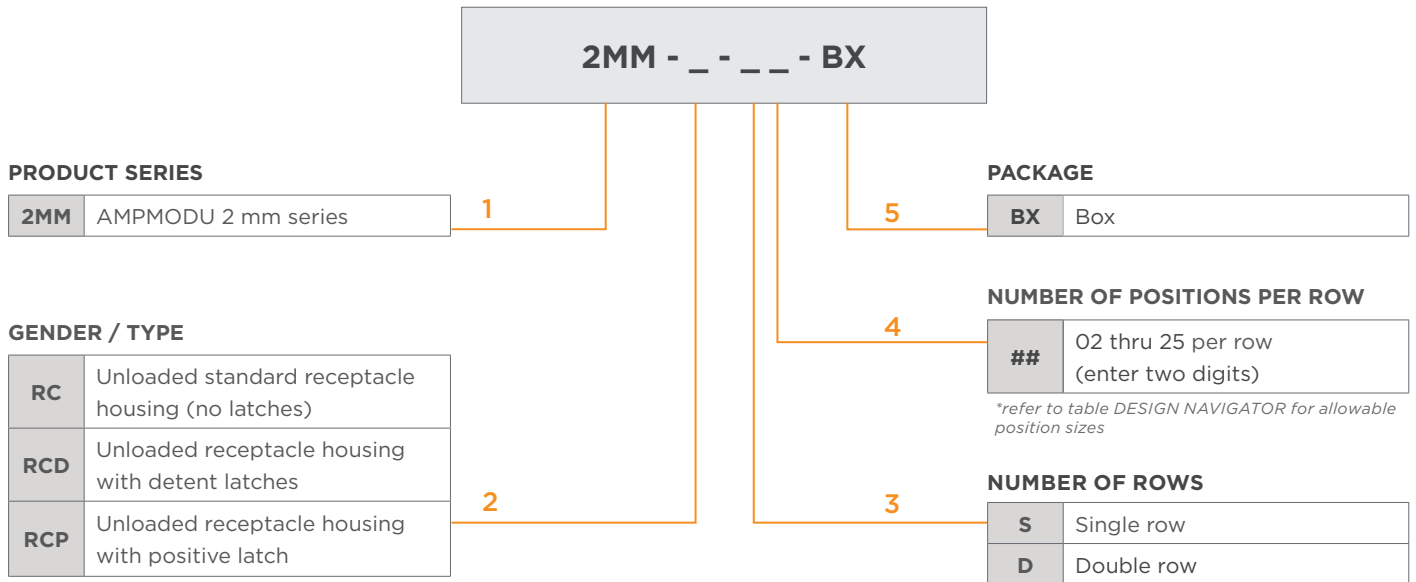
MATEABLE PARTS

Board Receptacles	B-t-B Orientation	Mateable Headers		
<p>Vertical Orientation</p> <p>2MM - R - __ - VT</p>  <p>2MM - R - __ - VTR</p>  <p>2MM - R - __ - VS</p> 	<p>Parallel</p> 	<p>Vertical Breakaway Headers</p> <p>2MM - HB - __ - VT</p>  <p>2MM - HB - __ - VS</p> 	<p>Page 9-10</p>	
	<p>Parallel</p> 	<p>Vertical Shrouded Headers w/ Detent Latches</p> <p>2MM - HSD - __ - VT</p>  <p>2MM - HSD - __ - VS</p> 	<p>Page 11-12</p>	
	<p>Perpendicular</p> 	<p>Horizontal Breakaway Headers</p> <p>2MM - HB - __ - HT</p> 	<p>Page 9-10</p>	
	<p>Perpendicular</p> 	<p>Horizontal Shrouded Headers w/ Detent Latches</p> <p>2MM - HSD - __ - HT</p> 	<p>Page 11-12</p>	
	<p>Horizontal Orientation</p> <p>2MM - R - __ - HT</p>  <p>2MM - R - __ - HS</p> 	<p>Perpendicular</p> 	<p>Vertical Breakaway Headers</p> <p>2MM - HB - __ - VT</p> 	<p>Page 9-10</p>
			<p>2MM - HB - __ - VS</p> 	

AMPMODU 2 mm INTERCONNECTION SYSTEM

CRIMP SNAP-IN 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.

AMPMODU 2 mm INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

RECEPTACLE CONTACT



2MM - RT - _ - _ - _

PRODUCT SERIES

2MM	AMPMODU 2 mm series
------------	---------------------

GENDER / TYPE

RT	Receptacle crimp contact
-----------	--------------------------

WIRE SIZE

S	AWG 30-28 [0.05 - 0.08 mm ²]
M	AWG 28-24 [0.08 - 0.22 mm ²]

PACKAGING

ST	Strip form (30K pcs/reel)
LP	Loose piece

PLATING

T	Tin
F	4 μ" [0.1 μm] gold (gold flash)
M	15 μ" [0.38 μm] gold
H	30 μ" [0.76 μm] gold

SMART PN EXAMPLES

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


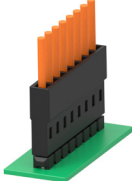

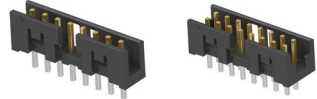




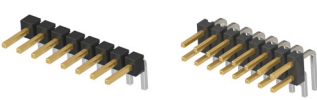
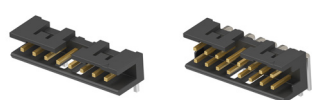

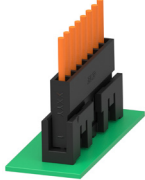


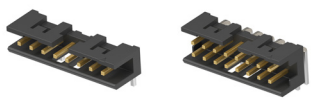

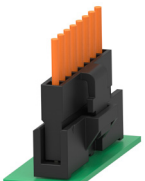
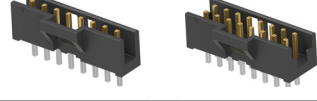
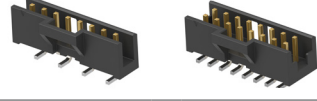
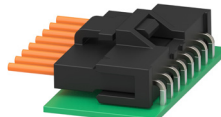

APPLICATION TOOLING

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

AMPMODU 2 mm INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

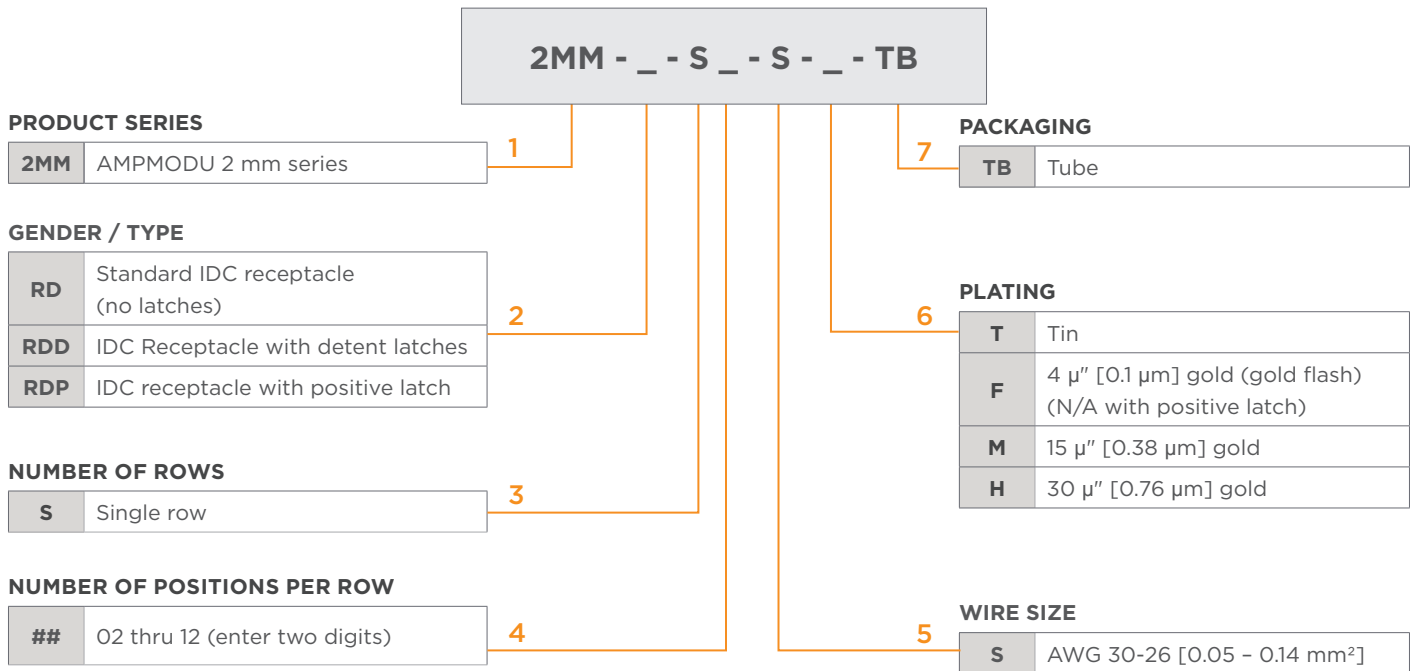
MATEABLE PARTS

Wire Receptacles	W-t-B Orientation	Mateable Headers			
Standard (No Latches)		Vertical Breakaway Headers	Page 9-10	Vertical Shrouded Headers w/ Detent Latches	Page 11-12
2MM - RC - __ 		2MM - HB - __ - VT 		2MM - HSD - __ - VT 	
		2MM - HB - __ - VS 		2MM - HSD - __ - VS 	
		Horizontal Breakaway Headers	Page 9-10	Horizontal Shrouded Headers w/ Detent Latches	Page 11-12
2MM - RCD - __ 		2MM - HB - __ - HT 		2MM - HSD - __ - HT 	
w/ Detent Latches		Vertical Shrouded Headers w/ Detent Latches		Page 11-12	
2MM - RCD - __ 		2MM - HSD - __ - VT 			
		2MM - HSD - __ - VS 			
		Horizontal Shrouded Headers w/ Detent Latches		Page 11-12	
		2MM - HSD - __ - HT 			
w/ Positive Latch		Vertical Shrouded Headers w/ Positive Latch		Page 13-14	
2MM - RCP - __ 		2MM - HSP - __ - VT 			
		2MM - HSP - __ - VS 			
		Horizontal Shrouded Headers w/ Positive Latch		Page 13-14	
		2MM - HSP - __ - HT 			

AMPMODU 2 mm INTERCONNECTION SYSTEM

INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

SMART PART NUMBER DEFINITION



*see table DESIGN NAVIGATOR for available positions

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 mm ²]	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		AWG 30-26 [0.05 - 0.14 mm ²]	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		AWG 30-26 [0.05 - 0.14 mm ²]	30 μ" [0.76 μm] gold	03 thru 12
			15 μ" [0.38 μm] gold	
			Tin	

AMPMODU 2 mm INTERCONNECTION SYSTEM

INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

APPLICATION TOOLING

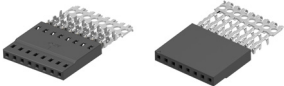




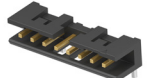

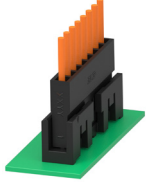

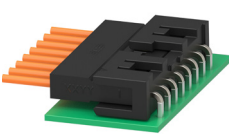
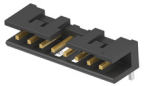

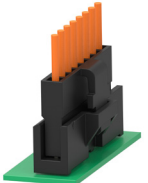
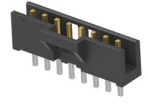
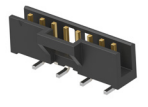
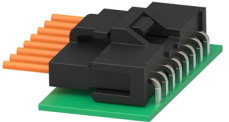
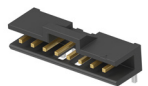
Tooling	Images	TE Part Number
Terminating head*		<u>2326300-1</u>
Pistol grip manual handle*		<u>58074-1</u>
Pneumatic handle*		<u>58075-1</u>
Extraction tool		<u>9-1579028-8</u> <i>Suitable for all receptacles - to disengage locking lance from front window.</i>
		<u>843477-3</u> <i>Suitable for standard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

AMPMODU 2 mm INTERCONNECTION SYSTEM

INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

MATEABLE PARTS Single row Only

Wire Receptacles	W-t-B Orientation	Mateable Headers			
		Vertical Breakaway Headers	Page 9-10	Vertical Shrouded Headers w/ Detent Latches	Page 11-12
Standard (No Latches) 2MM - RD - __ 		Vertical Breakaway Headers	Page 9-10	Vertical Shrouded Headers w/ Detent Latches	Page 11-12
		2MM - HB - __ - VT 		2MM - HSD - __ - VT 	
		2MM - HB - __ - VS 		2MM - HSD - __ - VS 	
		Horizontal Breakaway Headers	Page 9-10	Horizontal Shrouded Headers w/ Detent Latches	Page 11-12
		2MM - HB - __ - HT 		2MM - HSD - __ - HT 	
w/ Detent Latches 2MM - RDD - __ 		Vertical Shrouded Headers w/ Detent Latches			Page 11-12
		2MM - HSD - __ - VT 		2MM - HSD - __ - VS 	
		Horizontal Shrouded Headers w/ Detent Latches			Page 11-12
		2MM - HSD - __ - HT 			
w/ Positive Latch 2MM - RDP - __ 		Vertical Shrouded Headers w/ Positive Latch			Page 13-14
		2MM - HSP - __ - VT 		2MM - HSP - __ - VS 	
		Horizontal Shrouded Headers w/ Positive Latch			Page 13-14
		2MM - HSP - __ - HT 			

AMPMODU 2 mm INTERCONNECTION SYSTEM

te.com

AMPMODU, TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

©2022 TE Connectivity. All Rights Reserved.

06/22 MU