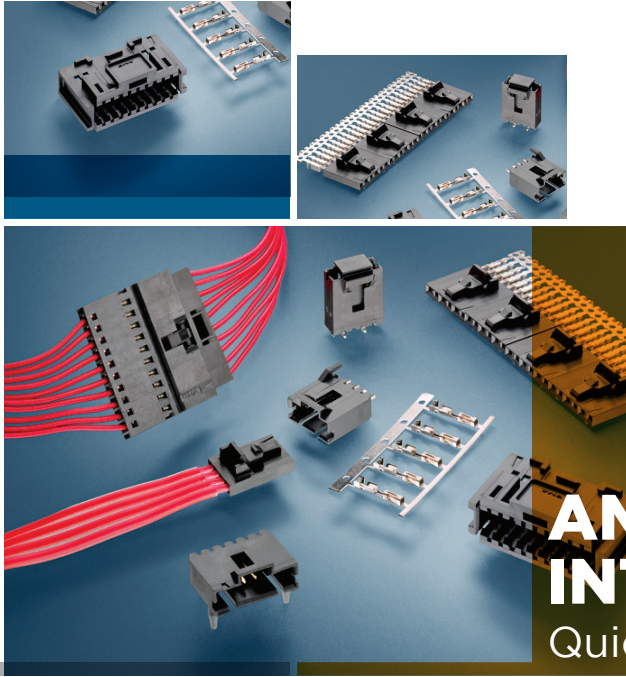




AMPMODU MTE INTERCONNECT SYSTEM

Quick Reference Guide

AMPMODU MTE Interconnect System

The TE Connectivity (TE) AMPMODU MTE interconnection system is utilized in wire-to-board and wire-to-wire applications, and can be found in many types of electronic equipment including computers, copiers, commercial printers, appliances, medical equipment, and automotive controls. The product implements Insulation Displacement Contacts (IDC) or Crimp Snap-In contacts to suit customer's needs.

BENEFITS & FEATURES

- Assembly designs offer latching and polarization
- Coupling shrouds permit ganging of smaller receptacle and pin assemblies with guide ribs to form larger single or double row latching connectors
- Available in three platings
- Swage option on posts provides retention in PC board
- High temperature option is SMT compatible
- Applicable Sizes 2-25 positions per row

APPLICATIONS

- Medical Instruments
- Automotive Controls
- Copiers
- Appliances
- Commercial Printers
- Vending
- Computers
- Instrumentation & Test Equipment
- Telecommunications
- Storage Equipment

PRODUCT/APPLICATION SPECIFICATION

- **Product Specification:**
108-25034 (Standard Product)
108-25034-2 (Surface Mount Product)
- **Application Specification:** 114-25026
- **Operating Temperature:** -65 to +105°C
- **Current:** 3 amps max.
(single contact in free air)

INSULATION DISPLACEMENT VS. CRIMP SNAP-IN

IDC

- Time savings
- Preloaded contacts
- Automation
- Mates with same headers as crimp

Crimp Snap-In

- Cost effective
- Flexibility (AWG)
- Manual labor
- Mates with same headers as IDC

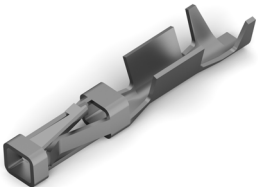
AMPMODU MTE Interconnect System

RECEPTACLE ASSEMBLIES

IDC Receptacles

Product Type	Product Image	Size	AWG	Plating		
				15 μ " Au	30 μ " Au	Matte Tin
MTE Receptacle Assemblies		2	22-26	5-103957-1	5-103958-1	5-103956-1
		3		5-103957-2	5-103958-2	5-103956-2
		4		5-103957-3	5-103958-3	5-103956-3
		5		5-103957-4	5-103958-4	5-103956-4
		...		...	...	...
		25		7-103644-4	7-103734-4	7-103645-4
		2	26-30	5-103960-1	5-103961-1	5-103959-1
		3		5-103960-2	5-103961-2	5-103959-2
		4		5-103960-3	5-103961-3	5-103959-3
		5		5-103960-4	5-103961-4	5-103959-4
		...		...	...	...
		25		7-103640-4	7-103897-4	7-103641-4

Short Point Replacement Contacts

Product Type	Product Image	Size	AWG	Strip	Loose Piece
Crimp Snap-In Short Point Contact		15 μ " Au	20-24	104479-9	1-104479-2
		30 μ " Au		1-104479-0	1-104479-3
		Matte Tin		104479-8	1-104479-1
		15 μ " Au	22-26	1-104480-2	1-104480-5
		30 μ " Au		1-104480-3	1-104480-6
		Matte Tin		1-104480-7	1-104480-4
		15 μ " Au	28-32	1-104481-0	1-104481-2
		30 μ " Au		1-104481-1	1-104481-3
		Matte Tin		5-104481-2	5-104481-6

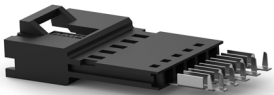
MTE Receptacle Housings

Product Type	Product Image	Size	PN
Wire Receptacle Housing		2	104257-1
		3	104257-2
		4	104257-3
		5	104257-4
		...	...
		25	2-104257-4

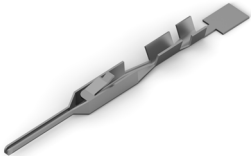
AMPMODU MTE Interconnect System

PIN COUNTERPARTS

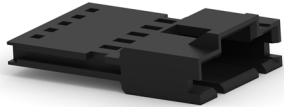
IDC Headers

Product Type	Product Image	Size	AWG	Plating		
				15 μ " Au	30 μ " Au	Matte Tin
MTE Pin Assemblies		2	22-26	5-103945-1	5-103946-1	5-103944-1
		3		5-103945-2	5-103946-2	5-103944-2
		4		5-103945-3	5-103946-3	5-103944-3
		5		5-103945-4	5-103946-4	5-103944-4
		...		...	...	...
		25		7-103660-4	7-103893-4	7-103661-4
		2	26-30	5-103948-1	5-103949-1	5-103947-1
		3		5-103948-2	5-103949-2	5-103947-2
		4		5-103948-3	5-103949-3	5-103947-3
		5		5-103948-4	5-103949-4	5-103947-4
		...		...	...	...
		25		7-103658-4	7-103894-4	7-103659-4

Crimp Pin Replacement Contacts

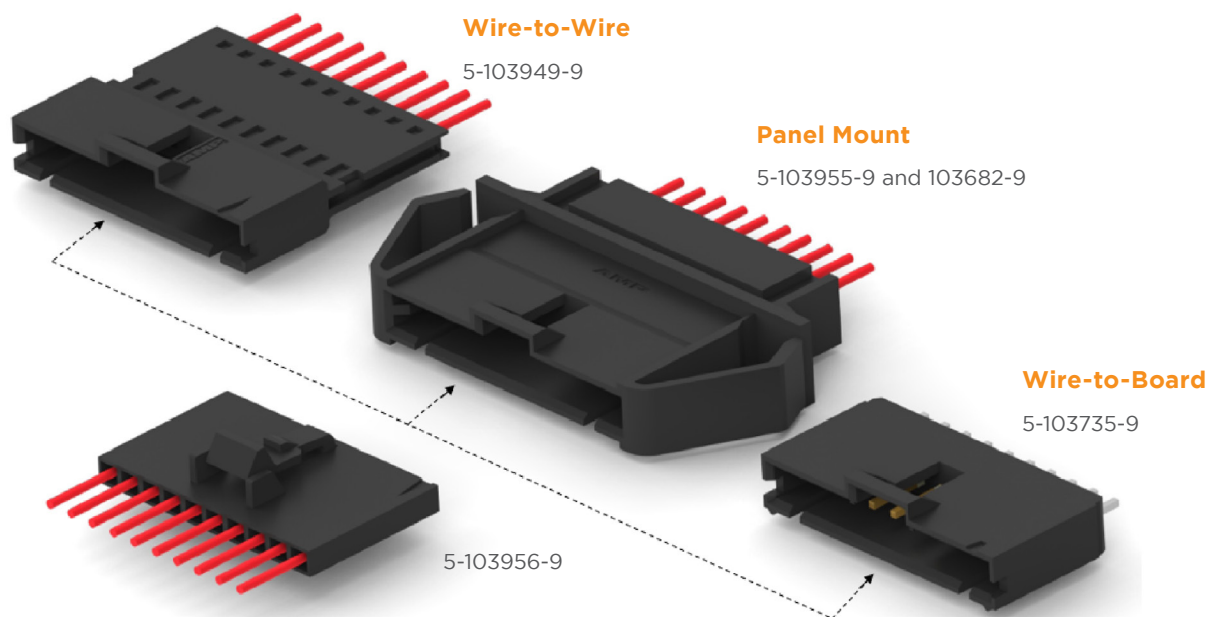
Product Type	Product Image	Size	AWG	Strip	Loose Piece
Crimp Snap-In Pin Contact		15 μ " Au	22-26	5-104505-4	5-104505-5
		30 μ " Au		5-104505-6	5-104505-7
		Matte Tin		5-104505-2	5-104505-3
		15 μ " Au	28-32	5-104506-4	5-104506-5
		30 μ " Au		5-104506-6	5-104506-7
		Matte Tin		5-104506-2	5-104506-3

MTE Crimp Pin Housings

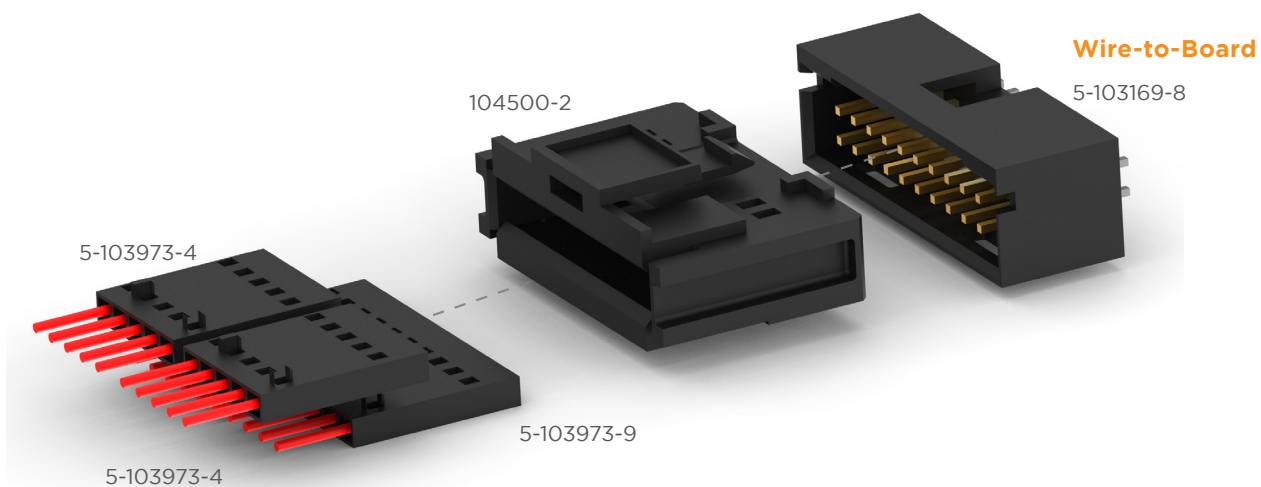
Product Type	Product Image	Size	PN
MTE Crimp Pin Housing		2	103653-1
		3	103653-2
		4	103653-3
		5	103653-4
		...	...
		25	2-103653-4

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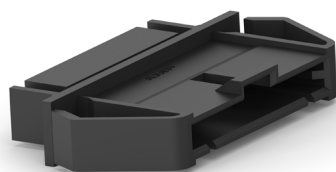
Typical Application of Single-Row Coupling Shroud and Mating AMPMODU MTE Products



Typical Application Of Double-Row Coupling Shroud And Mating Ampmodu Mte Products



Coupling Shrouds



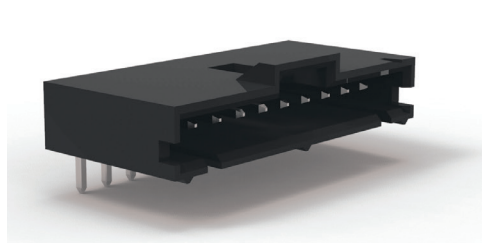
103682 (2-25P)
Panel Mount



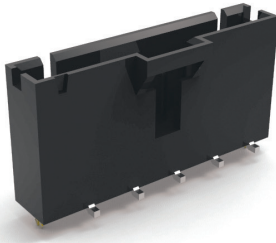
103681 (8-16P), 104500 (18-50P)
Double Row

AMPMODU MTE Interconnect System

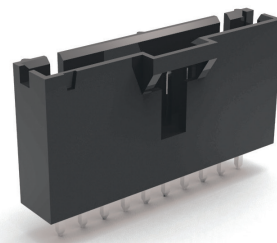
Single Row, Header on Board



Right Angle



Surface Mount



Vertical

Plating	w Hold Down	w/o Hold Down
30Au	103904	104935
15Au	103673	103635
	104361	
Tin	103672	103634

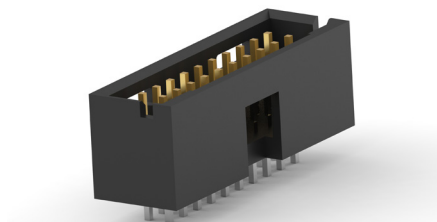
Plating	w Hold Down
30Au	1375583
15Au	1375582
Tin	1375549

Plating	Standard	Swaged Tail
30Au	103735	103908
15Au	104363	104362
Tin	103639	103669

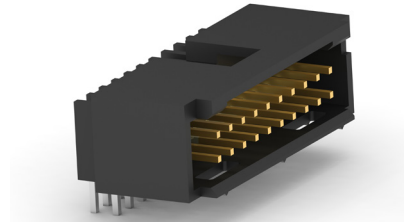
Performance Specifications

Type	Position Size	Soldering Temperature	Current Rating	Application Specification
Right Angle	2-25	265°C Wave	3 amps*	114-25026
Surface Mount	2-25	245°C Reflow	3 amps*	114-25026
Vertical	2-25	265°C Wave	3 amps*	114-25026

Double Row, Header on Board



Vertical



Right Angle

Plating	Standard	w Hold Down
30AU	103169	104317
15AU	102619	
Tin	87587	

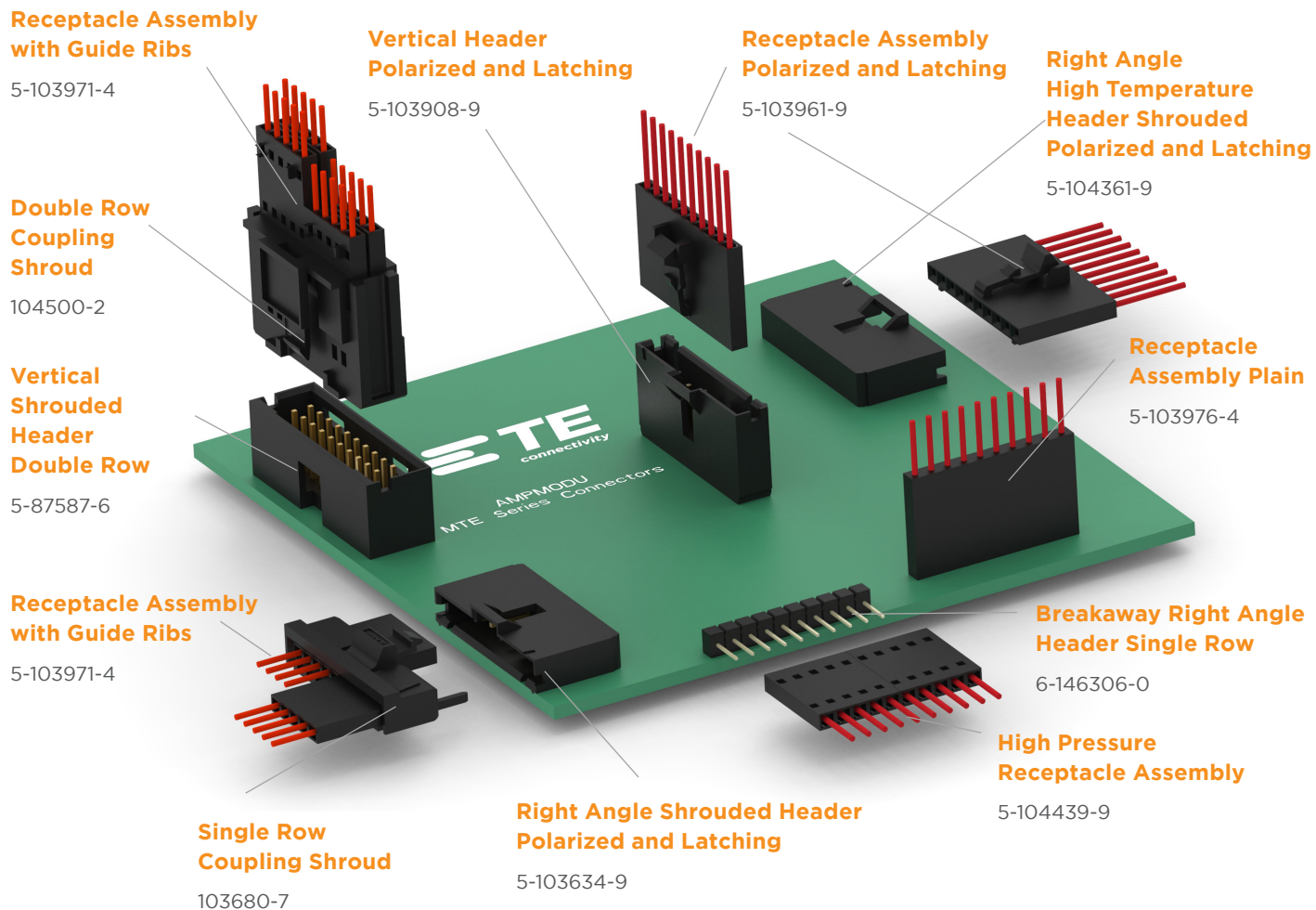
Plating	Standard	w Hold Down
30AU	103167	104319
15AU	102570	
Tin	87577	

Performance Specifications

Type	Position Size	Soldering Temperature	Current Rating	Application Specification
Vertical	8-50	265°C Wave	3 amps*	114-25018
Right Angle	8-50	265°C Wave	3 amps*	114-25018

*For a single contact in free air

AMPMODU MTE Interconnect System



Application Tooling

AMPMODU MTE Part Number	Tooling Part Number	Tooling Description	Instruction Sheet
All Receptacle Assembly Part Numbers Listed Below	58074-1	Manual Pistol Grip	408-6790
	58075-1	Pneumatic Pistol Grip	408-6789
	58338-1	Bench Mounted Pneumatic Power Assembly	408-9393
	931800-1	IDC Electric Power Unit	409-5746
	58336-1	MTE Modular Head	408-9359

AMPMODU MTE Interconnect System

What are the current rating (amps) and voltage requirements of AMPMODU MTE connectors?

3 amps for a single contact in free air, 267 V (operating voltage)

What type and size requirements?

#22-#30 AWG range for IDC configurations; #20-#32 AWG for crimp snap-in replacement contacts

What are the number of positions needed?

2-25 positions, double row coupling shrouds allow 8-50 position configurations

Available space?

.100 centerline and .100 x .100 centerline (coupling shrouds mating to PCB headers)

Configuration/orientation?

Right angle, vertical, single/double row

Operating temperature requirements?

Will accommodate -65°C to +105°C range

Environmental Considerations?

Refer to TE product specifications 108-25034, 108-25034-2 (MTE surface mount product), 108-1472 and 108-1472-1 (Short Point)

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