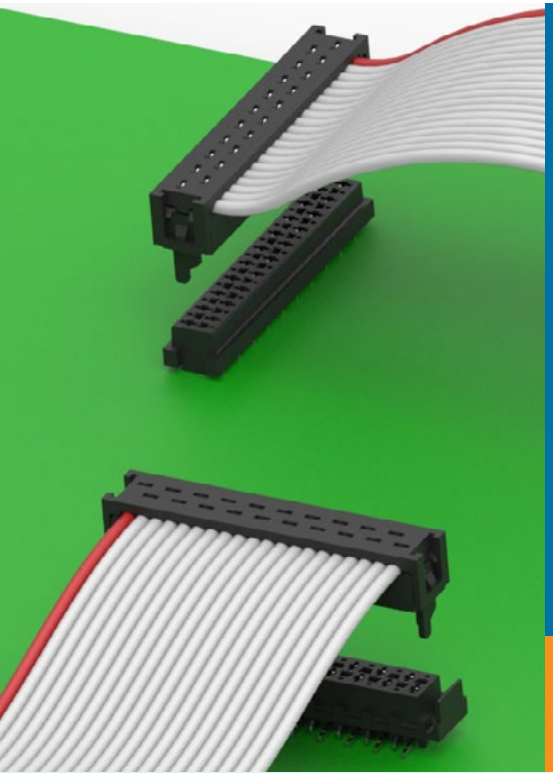




.050 CENTERLINE MICRO-MATCH VALUE-LINE CONNECTOR FAMILY

Quick Reference Guide

TE Connectivity's (TE) Micro-MaTch Value-line Connector Family product portfolio increases its design flexibility with the new Board-to-Board connectors, in addition to the existing Wire-To-Board portfolio. This product range offers cost effective tape & reel opportunities for automatic pick & place, which reduces assembly time. As extra customer service TE offers hand tooling, semi-automatic tooling plus the support of ready-to-go and customer specific cable assemblies.

The Micro-MaTch Value-line Connector Family product portfolio is built around the existing high quality Micro-MaTch connector system and has been developed to suit environments where a broad temperature range, many mating cycles and vibration resistance are less relevant. On a pitch of 1.27 mm, Micro-MaTch Value-line product portfolio offers a variety of interconnections for the Industrial, Consumer and Datacom industry.

FEATURES AND BENEFITS

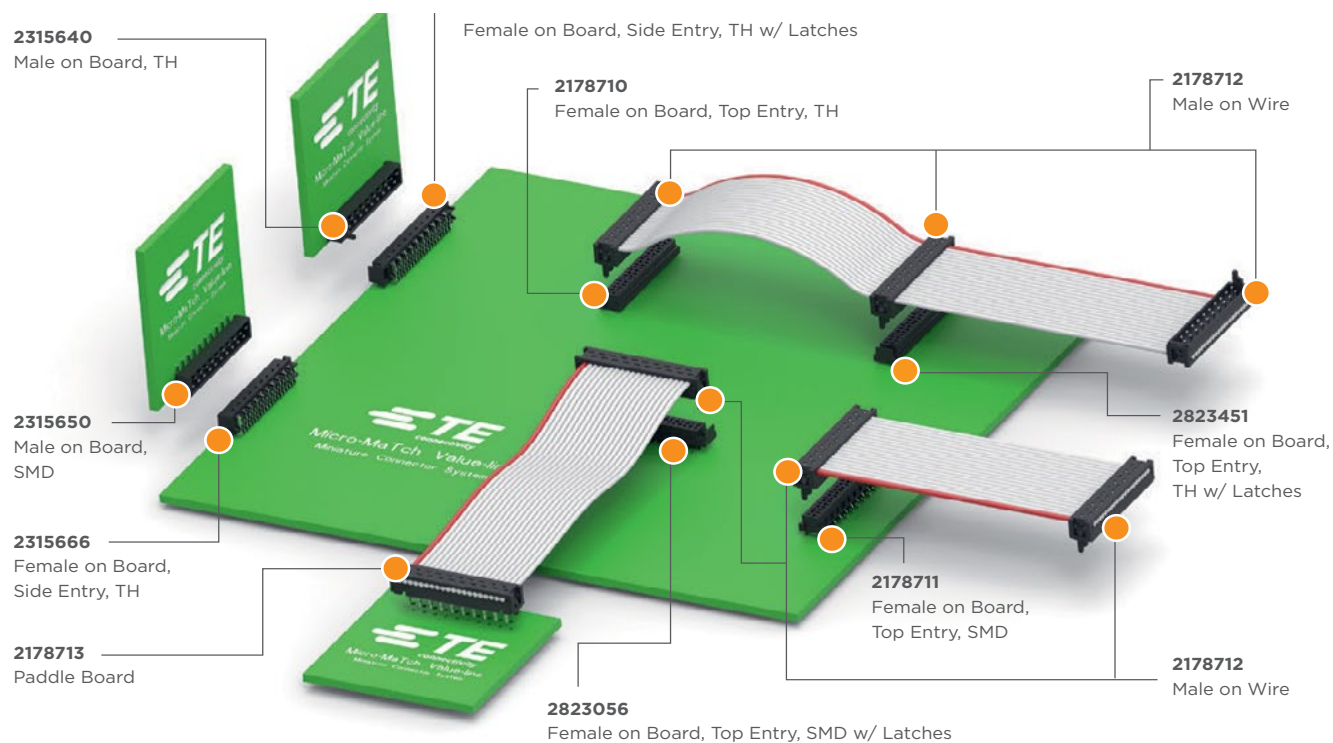
- Cost effective Wire-to-Board and Board-to-Board system with tin plated contact design
- Miniature connector system to save space on the printed circuit board
- All connectors supplied on tape & reel and suitable for automatic placing and termination
- Highly reliable gas tight and corrosion free connections between wire and insulation displacement contacts
- Full range of application tooling from hand tool to fully automated equipment
- Cable connectors accepting all standard ribbon cable

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PRODUCT APPLICATIONS

- Home automation and alarm equipment
- Mobile GPS devices
- Lighting
- Air- and climate control units
- CCTV
- Building surface control
- Set top boxes, audio- & video equipment
- Electronic voting machines
- Pay terminals

PRODUCT/APPLICATION SPECIFICATION



APPLICATION TOOLING

Hand Tools

734155-1	Pistol grip	734024-1	Adapter set	654061-1	Flat cable cutting tool
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Bench Tools

733280-3	Termination die set	733278-2	Sub-assy toolset (4-20p)	1-547008-7	Lever press incl. toolset (4-24p)
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Semi-Automatic Tools

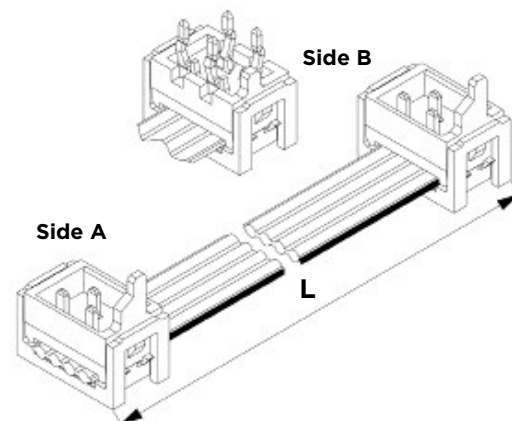
677412-7	Semi automatic base press	519708-1	Toolset for 2178712	438685-1	Toolset for 2178713
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STANDARD CABLE ASSEMBLIES

POS	Part number*		Part number*	
4	2205103	Side A and B Male on Wire 2178712	2205112	Side A Male on Wire 2178712
6	2205104		2205113	
8	2205105		2205114	
10	2205106		2205115	
12	2205107		2205116	Side B Paddle Board 2178713
14	2205108		2205117	
16	2205109		2205118	
18	2205110		2205119	
20	2205111		2205120	

* -1 L=75 mm; -2 L=150 mm; -3 L=200 mm



MICRO-MATCH VALUE-LINE PRODUCT PORTFOLIO

2178710 Female on Board, Top Entry, TH	2178711 Female on Board, Top Entry, SMD	2178713 Paddle Board	2178712 Male on Wire
2823451 Female on Board, Top Entry, TH, w/ Latches	2823056 Female on Board, Top Entry, SMD	2315666* Female on Board, Side Entry, TH	2315677* Female on Board, Side Entry, TH, w/ Latches
2315640* Male on Board, TH	2315650* Male on Board, TH		

* New part introduction 2019

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	P&P Tape	Number of Positions				
		4	6	8	10	12
Female on Board Connectors	-	2315666-4	2315666-6	2315666-8	1-2315666-0	1-2315666-2
	-	2315677-4	2315677-6	2315677-8	1-2315677-0	1-2315677-2
	-	2178710-4	2178710-6	2178710-8	1-2178710-0	1-2178710-2
	-	2823451-4	2823451-6	2823451-8	1-2823451-0	1-2823451-2
	N	2178711-4	2178711-6	2178711-8	1-2178711-0	1-2178711-2
	Y	7-2178711-4	7-2178711-6	7-2178711-8	8-2178711-0	8-2178711-2
	N	2823056-4	2823056-6	2823056-8	1-2823056-0	1-2823056-2
	Y	7-2823056-4	7-2823056-6	7-2823056-8	8-2823056-0	8-2823056-2
Cable Connectors	-	2178713-4	2178713-6	2178713-8	1-2178713-0	1-2178713-2
	-	2178712-4	2178712-6	2178712-8	1-2178712-0	1-2178712-2
Male on Board Connectors	-	2315640-4	2315640-6	2315640-8	1-2315640-0	1-2315640-2
	N	2315650-4	2315650-6	2315650-8	1-2315650-0	1-2315650-2
	Y	7-2315650-4	7-2315650-6	7-2315650-8	8-2315650-0	8-2315650-2

	P&P Tape	Number of Positions			
		14	16	18	20
Female on Board Connectors	-	1-2315666-4	1-2315666-6	1-2315666-8	2-2315666-0
	-	1-2315677-4	1-2315677-6	1-2315677-8	2-2315677-0
	-	1-2178710-4	1-2178710-6	1-2178710-8	2-2178710-0
	-	1-2823451-4	1-2823451-6	1-2823451-8	2-2823451-0
	N	1-2178711-4	1-2178711-6	1-2178711-8	2-2178711-0
	Y	8-2178711-4	8-2178711-6	8-2178711-8	9-2178711-0
	N	1-2823056-4	1-2823056-6	1-2823056-8	2-2823056-0
	Y	8-2823056-4	8-2823056-6	8-2823056-8	9-2823056-0
Cable Connectors	-	1-2178713-4	1-2178713-6	1-2178713-8	2-2178713-0
	-	1-2178712-4	1-2178712-6	1-2178712-8	2-2178712-0
Male on Board Connectors	-	1-2315640-4	1-2315640-6	1-2315640-8	2-2315640-0
	N	1-2315650-4	1-2315650-6	1-2315650-8	2-2315650-0
	Y	8-2315650-4	8-2315650-6	8-2315650-8	9-2315650-0

FREQUENTLY ASKED QUESTIONS

Can we make Micro-MaTch Value-line Connector Family connectors with contacts in Gold plating?

No. The Micro-MaTch contact system is designed to deliver a high normal-force as required for tinplated contact interconnections. This pressure is too high for gold plated interconnections, where much lower normal-forces are required.

We have noticed that the kinks of the Micro-MaTch Value-line Connector Family thru-hole solder contacts on Top Entry Connectors, start with random direction. Is this technically OK?

Yes, this is OK and does not affect contact retention. For those connectors the kink direction in each row can start random, but sequential contacts within each row have kinks pointing in opposite directions.

Which flat ribbon cable is suitable for Micro-MaTch Value-line Connector Family Male on Wire and Paddle Board connectors and why?

The new design of the cable connectors within TE's Micro-MaTch Value-line Connector Family will perfectly accept most flat ribbon cable with 'oval' conductor design. The cable insulation's oval shape at each position and the flat transition between the positions, both exactly match with corresponding shape in the cover. This enables accurate pre-positioning of the conductors regarding to the IDC-slots during the termination process. It is also important that the conductor's pitch is within tolerance and that they are symmetrically positioned in the insulation shape.

Are Micro-MaTch Value-line Connector Family Male on Wire and Paddle Board connectors also suitable for discrete wire termination?

For discrete wires, Micro-MaTch connectors offer the Crimp-On Snap-In (COSI) connectors in 2 wire ranges. For more information please contact your local TE Connectivity Sales representative.

Is there retention force performance available for the female connector version with locking latches?

No. The plastic latches were not designed to retain the connectors but to produce an audible click when the connectors are fully mated.

What exactly are the main differences between the Value-line and the actual (Industrial) Micro-MaTch version?

The actual Micro-MaTch version has a higher operating temperature, more mating cycles, and more vibration resistance. The Value-line is perfect for applications that are not exposed to heavy vibration, operate within a standard temperature range between -30 °C and +85°C and are less prone to frequent mating cycles. For more information please contact your local TE Connectivity Sales representative.

LET'S CONNECT

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