



RAST CONNECTOR SYSTEM

Product Selector Guide

RAST Connector System Product Selector Guide

TE Connectivity's (TE) RAST connector system includes crimp and insulation displacement contact (IDC) solutions designed to either RAST 2.5 or RAST 5 standards. RAST IDC connectors support high throughput automatic production lines, while RAST crimp products can help simplify manual assembly processes. RAST connectors are commonly used in household appliances, including washing machines, dishwashers, cooking equipment, and refrigeration.

AMP multifitting Mark II Connectors

			Drawing No		Counterparts	Housing					Contact		Application					Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	GWFI**≥ 850°C & GWIT≥ 775°C	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm²2/ AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*	
 AMP multifitting Mark II Connectors	Tab Version 16A	1534073	1241171		RAST 5 Tab Header	-	X	X	-	Copper alloy	Ag	1-4	1-1.5 / 17-15.5	16A	250V	-40 to +110	108-18652	114-18288-1	UL, VDE	
		2178661				-	X	X	-											
		2407717				X	-	-	X											
	Tab Version 10A	1534072	1534072	1241170		-	X	X	-	CuZn	Tin	1-10	0.35-1/ 22-17	10A						
		2407711				X	-	-	X		Ag	1-4								
		2393854				X	-	X	-		Tin	1-10								
		1534077	1534077	1394355		-	X													

*Specifications and approvals will vary based on configuration.

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AMP MONO-SHAPE Connectors

			Drawing No		Counterparts	Housing			Contact		Application					Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm²/ AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*
 AMP MONO-SHAPE Connectors	Tab Version	282002/282003/ 282004/282005/ 284545/282006/ 284745/282007/ 284085/282010/ 284004	282002		RAST 5 Tab Header		X	X	CuZn	Tin	2-10	0.5-1.5 / 20-15.5	16A	380V	-25 to +105	108-20065-1	114-20016-1	UL, VDE
		2293382				X	-	X	CuZn	Tin	2-10							
	PCB Version	282042/282043/ 282044/282045/ 282046/ 282047/ 284208/282049/ 282050/282051/ 282052	282042		PCB	-	X	X	CuZn	Tin	2-12	0.5-0.75 / 20- 18.5	6A	250V	-25 to +105	108-20067-1	114-20018	
		2293372/ 2292072				X	-	X	CuZn	Tin	2-12							
		2298752/ 2298552				X	-	X	CuZn	Tin	2-12							
		2333039					X	X	CuZn	Tin	2-8							
	LIF Version	284338/284339/ 293141/293142/ 293143/284685/ 284686	284338		RAST 5 Tab Header	-	X	X	CuZn	Tin	2-10	0.5-1.5 / 20-15.5	10A	380V	-25 to +105	108-20065-1	114-20016-1	
		2293392				X	-	X	CuZn	Tin	2-10							
		2301868					X	X	CuZn	Tin	2-7							
	Single Way Version	2293392	282086		RAST 5 Tab Header	X	-	X	CuZn	Tin	1	0.5-1.5 / 20-15.5	16A	380V		108-20065-1	114-20016-1	
		282086					X	X	CuZn	Tin	1							

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Positive Lock RAST 5 Connector System

			Drawing No		Counterparts	Housing			Contact		Application					Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm²2/ AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*
 <u>Positive Lock RAST 5 Connector System</u>	Housing	521204	521204		RAST 5 Tab Header	X	-	X	NA		2	NA	16A	500V	-40 to +105	108-143029	114-2074	UL
		521205	521205					X			3							
		521782	521782					-			4							
		521206	521206					X										
		521295	521295					X										
		2371464	2371464					X			5							
		521207	521207					-										
		521267	521267					-										
		521208	521208					-			6							
		521435	521435					-										
		521209	521209					-			7							
		521935	521935					-										
		521210	521210					-			8							
		521796	521796					-										
		521746	521746					-			9							
		521936	521936					-										
		521792	521792					-			10							
		521836	521836					-										
		521699	521699					-			11							
		1969335	1969335					-										
	Contact	1217378	1217378					CuZn	Unplated/ Tin / Ag	NA	0.3-0.8 / 22-18							
		1217095	1217095						Unplated / Tin		1.3-3 / 16-12							
		1217094	1217094								0.8-2 / 18-14							
		2238135	2238135								0.3-0.8 / 22-18							
		2238212	2238212						Tin		0.8-2 / 18-14							
		2416113	2416113															
		2416114	2416114															

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AMP Standard Timer Connectors - Housings

			Drawing No		Counterparts	Housing			Contact		Application					Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm²/ AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*
 AMP Standard Timer Connectors - Housings	Exterior Locking Housing	1241961 / 1241959 /1241817 / 1241983 /964484 / 1955422 /2178571 / 2178575 /2345753 / 2364739 /2315717 / 2322917	1241961		RAST 5 Tab Header	X	X	X	NA		2-5	-	Max. 16A	400V AC (fully loaded) / 600V AC (selectively loaded, alternate pitch)	-40 to +105	108-18049-1	NA	UL, VDE
		1241965 / 1241980 964702 / 964983 928247 / 1703150 2178600 / 2178029 2364737 / 2322912 / 2345754	1241965			X	X	X			2-11							
		2364000	2364000			X		X			2-4							
		2295787	2295787			X		X			3-7							
	Interior Locking Housing	1241964	1241964				X	2-11										
		2364736 - /2407487		X		X	X	2-5										
		1241981	1241981				X	3-6										
		928343 / 1703059 / 2178561	928343	X		X	X	2-12										
		928344	928344	X		X	X	2-7										
		964951	964951			X	-	2										
		2178930	2178930	X		X	X	3										
		2298443	2298443			X	X	2										
		1703060	1703060	X	X	X	6-11											

*Specifications and approvals will vary based on configuration.

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AMP Standard Timer Connectors - Contacts

		Drawing No		Counterparts	Contact		Application					Documentation		
Series	Base No	CD	PD	Mating Part	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm²/AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*
 AMP Standard Timer Connectors - Contacts	926973	926973		RAST 5 Tab Header	CuZn	Tin	According to the housing applied	1.0-2.5 / 17-13.5	Max. 16A	400V AC (fully loaded) / 600V AC (selectively loaded, alternate pitch)	-40 to +105	108-18049-1	NA	UL, VDE
	926984	926984			CuZn, CuSn			0.2-0.5 / 24-20						
	928820	928820			CuZn, CuSn, Copper alloy			0.5-1.0 / 20-17						
	964201	964201			CuZn, CuSn, Copper alloy			0.5-1.0 / 20-17						
	964202	964202			CuZn, Copper alloy			1.5-2.5 / 15.5-13.5						
	964203	964203			CuSn, Copper alloy	Tin / Ag		1.0-2.5 / 17-13.5						
	964204	964204			CuSn, Copper alloy			1.5-3 / 15.5-12						
	1241823	/	1241823		CuZn, CuSn, Copper alloy	Tin		0.5-1.0 / 20-17						
	1862006	1862006			Copper alloy	Tin / Ag		0.8-1.3 / 18-16						
	2238083	-	2238083			Ag		0.75-1.3 / 18.5-16						
	2238084	-	2238084					1.3-2.5 / 16-13.5						
	2825197	2825197						Tin						

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RAST 5 FASTIN-FASTON Housing

			Drawing No		Counterparts	Housing			Application				Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	Number of Positions	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Agency Approvals Available*	
 RAST 5 FASTIN-FASTON Housing	Panel Mount	927742	927742	927742	AMP multifitting Mark II, AMP MONO-SHAPE, AMP Standard Timer, Positive Lock RAST 5 Connector	X	X	X or -	2-7	According to wire size and wire application	380 V	-25°C to +105°C	108-20256	N/A	
		928230	928230	928230		-	X	-	2, 3						
		928309	928309	928309		-	X	-	7, 8						
		284985	284985	284985		-	X	X	7						
		284986	284986	284986		-	X	X	8						
		293008	293008	293008		X	X	X or -	3						
		293009	293009	293009		X	X	X	4						
		293010	293010	293010		X	X	X or -	5						
		293011	293011	293011		-	X	X or -	5						
		293033	293033	293033		-	X	X	9						
		293034	293034	293034		X	X	X or -	7						
		293035	293035	293035		-	X	X or -	2						
		293043	293043	293043		-	X	X	8						
		293044	293044	293044		X	X	X or -	7						
		293161	293161	293161		-	X	X or -	5						
		293223	293223	293223		-	X	X	7						
		293267	293267	293267		X	X	X	7						
		1241857	1241857	1241857		X	X	X	5						
		1241967	1241967	1241967		-	X	-	6, 7, 8						
		1241968	1241968	1241968		-	X	-	10						
		1241969	1241969	1241969		-	X	-	8						
		1955416	1955416	1955416		-	X	-	3						
	Motor Mount	293014	293014	293014		-	X	X	7				108-20247		
		293015	293015	293015		-	X	X	7						
		293346	293346	293346		-	X	X	8						
		293039	293039	293039		-	X	X	7						

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RAST 5 Headers

Series	Sub-Type				Drawing No			Counterparts	Housing			Contact		Application				Documentation	
	Orientation	Shrouding	Pattern	Loading	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Agency Approvals Available*
 DIN Style	Vertical	No	Standard	Full	521383	521383	521383	AMP multifitting Mark II, AMP MONO-SHAPE, AMP Standard Timer	X	-	-	Full	Tin	2-9	20A	250V AC	-40 to 105°C	108-2183	UL, VDE
					1971845 / 1971846 / 1971896	1971845	1971845						Tin / Ag	2-8		400V AC (fully loaded) / 600V AC (selectively loaded)	-40°C to +120°C	108-106080	UL, VDE
	Vertical	No	Standard	Full / Selective	2390874 / 2390877 / 2392784	2390874	2390874		X	-	X	Full / Selective	Tin	2-5, 7					
	Vertical	No	Opposite	Full	2232043 / 2232044 / 2232045 / 2232046	2232043	2232043		X	-	X	Full	Tin / Ag	2-8					
	Vertical	No	Standard	Selective	2232511	2232511	2232511		X	-	X	Selective	Tin / Ag	3-8					
	Vertical	No	Opposite	Selective	2322950	2322950	2322950		X	-	X	Selective	Tin	4-7					
	Vertical	No	Standard / Opposite	Full	1969740	1969740	1969740		X	-	X	Full	Tin / Ag	2-7					
	Vertical	No	Standard / Opposite	Selective	1969738	1969738	1969738		X	-	X	Selective	Tin / Ag	3-4					
	Right-Angle	No	Standard	Full	521385	521385	521385		X	-	-	Full	Tin	2-9		250V AC	-40 to 105°C	108-2183	UL, VDE
	Right-Angle	No	Standard	Selective	521386	521386	521386		X	-	-	Selective	Tin	3-5					UL
	Right-Angle	No	Standard - Reverse	Full	1955660	1955660	1955660		-	X	X	Full	Tin	2-7					UL, VDE
	Right-Angle	No	Standard	Full / Selective	1969352	1969352	1969352		-	X	X	Full / Selective	Tin	2-8					UL

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RAST 5 Headers

Series	Sub-Type				Drawing No			Counterparts	Housing			Contact		Application				Documentation	
	Orientation	Shrouding	Pattern	Loading	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Agency Approvals Available*
 Positive Lock Terminal Style	Vertical	No	Standard	Full	2232532	2232532	2232532	Positive Lock RAST 5 Connector System	X	-	X	Full	Tin / Ag	2-8	20A	400V AC (fully loaded) / 600V AC (selectively loaded)	-40°C to +120°C	108-106080	UL, VDE
	Vertical	No	Standard	Selective	2232611	2232611	2232611		X	-	X	Selective	Tin / Ag	3-8					
	Vertical	No	Standard / Opposite	Full	2232647	2232647	2232647		X	-	X	Full	Tin / Ag	2-8					
	Vertical	No	Opposite	Full	2372858	2372858	2372858		X	-	X	Full	Tin	2-5					
	Vertical	No	Opposite	Selective	2385644	2385644	2385644		X	-	X	Selective	Tin	5					
	Vertical	Yes	Standard with Inner Wall	Full	2371466	2371466	2371466		X	-	X	Full	Tin	2-4					
	Vertical	Yes	Opposite with Inner Wall	Full	2371673	2371673	2371673		X	-	X	Full	Tin	2-5					
	Vertical	Yes	Standard with Feet	Full	2405963	2405963	2405963		X	-	X	Full	Tin	2-4					
	Vertical	Yes	Opposite with Feet	Full	2405966	2405966	2405966		X	-	X	Full	Tin	2					
	Vertical	Yes	Standard	Full	2292457 / 2390868	2292457	2292457		X	-	X	Full	Tin	2-5					
	Vertical	Yes	Opposite	Full	2337101 / 2390869	2337101	2337101		X	-	X	Full	Tin	2					
	Right- Angle	No	Standard	Full	521384	521384	521384		X	-	-	Full	Tin	2-9		250V AC	-40 to 105°C	108-2183	UL, VDE
	Right- Angle	No	Standard - Glow Wire Test (GWT)	Full	1969234	1969234	1969234		-	X	X	Full	Tin	2					UL

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RAST 2.5 Connectors

			Drawing No		Counterparts	Housing			Contact		Application					Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm²/ AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*
 AMP DUOPLUG 2.5 Mark II Connector	Standard Version	1534796 / 1534797	1534796		RAST 2.5 Tab Header PCB Customized interface	-	X	X	CuSn	Tin	2-20	0.22-0.35 / 24-22	2A	50	-40 to +110	108-18785	114-18467	UL, VDE
		2304525 / 2304526				X	-							250				
		1534798 / 1534799	1534798			-	X											
		2304527 / 2304528				X	-											
	PCB Locking Version	1740501	1740501		PCB	-	X				2-10			3-8				
		2421983				X	-				5-10							
		1740154				-	X				3-10							
	Side Locking Version	2306286	1740154			X	-				3-10			250				
		2306287	2306286															

			Drawing No		Counterparts	Housing			Contact		Application					Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm ² /AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*
 Monoplug 2.5 Connector	-	2232892 / 2232893 / 2406852 / 2406853	2232884		RAST 2.5 Tab Header PCB Customized interface	X	-	X	CuSn	Tin	2-13	0.22-0.35 / 24-22	2A	50	-40 to +110	108-106198	114-106198	UL, VDE
		2232890 / 2232891 / 2406849 / 2406851												250V (50V for consecutive loaded)				

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RAST 2.5 Connectors

			Drawing No		Counterparts	Housing			Contact		Application					Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm²2/ AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*
 AMP DUOPLUG Power Connector	Standard Version	1394918	1394918		RAST 2.5 Tab Header PCB Customized interface	X	-	-	Copper alloy	Tin	2-9	0.35-0.75 / 22-18.5	6A	250V	-40 to +110	108-18780	114-18458	UL, VDE
		1534415	1534415			-	X	X			2-10							
		2328644				X	-				2-9							
	PCB Locking Version	1740533	1740533		PCB	-	X				2-9							
		2395228				X	-				2-8							

			Drawing No		Counterparts	Housing			Contact		Application					Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm²/ AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*
 RAST 2.5 Standard Timer Connector	Housing	2391423	2391423		RAST 2.5 Tab Header PCB Customized interface	X	-	X	NA	NA	3-9	NA	2A (Fully loaded) 3A (interval loaded)	50V for fully loaded 250V for interval loaded	-40 to +105	108-160359	114-160192	UL, VDE
	Contact	2391430	2391430			N/A			CuSn	Tin	NA	0.2-0.5 / 24-20						

			Drawing No		Counterparts	Housing			Contact		Application					Documentation		
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Wire Range (mm²/ AWG)	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Application Specification	Agency Approvals Available*
 Monoplug Power Connector	Standard Version	2325926	2325926		RAST 2.5 Tab Header PCB	X	-	X	Copper alloy	Tin	2-6	0.35 - 0.75 /22-18-1/2	9A	250	-40 to +110°C	108-106516	114-106277	UL, VDE
	Isolation Version	2376193			RAST 2.5 Tab Header						2-7		6A					

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RAST 2.5 Headers

			Drawing No		Counterparts	Housing			Contact		Application				Documentation	
Series	Sub-Type	Base No	CD	PD	Mating Part	UL-V0	UL-V2	GWEPT** 750°C	BULK MATERIAL	Plating	Number of Positions	Current rating (A)	Voltage Rating (V)	Operating Temperature (°C)	Product Specification	Agency Approvals Available*
 RAST 2.5 Tab Header	Standard Version, External Lock	1971817 / 1971818	1971817		AMP DUOPLUG 2.5 Mark II Connector Monoplug 2.5 Connector AMP DUOPLUG Power Connector RAST 2.5 Standard Timer Connector	X	-	X	CuZn	Tin	3-15	2A	50V	-40 to +120	108-106079	UL, VDE
		1971837 / 1971838								Ag						
		1971921 / 1971922	1971921							Tin	3-15	max. 6A	max. 250V			
		1971923 / 1971924								Ag						
	Standard Version, Internal Lock	1971819 / 1971820	1971819							Tin	3-15	2A	50V			
		1971839 / 1971840								Ag						
	Potted Version, External Lock	2232960	2232960							Tin	3-9	2A	50V			
		2232962									3-17	max. 6A	max. 250V			

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