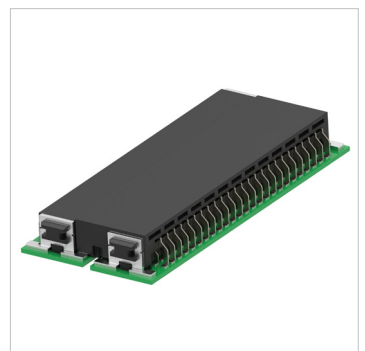
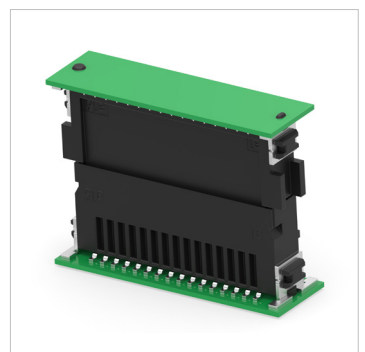
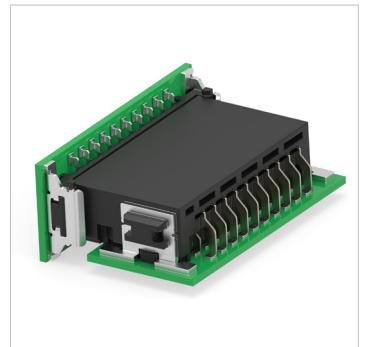


AMP SMC ESSENTIAL CONNECTOR

TE Connectivity (TE) introduces its AMP SMC essential connector - an extended offering to the 1.27mm pitch board-connector-portfolio.

A cost-effective version, delivering strong robustness and reliability.



AMP SMC ESSENTIAL CONNECTOR

TE AMP SMC essential connector is a performance-enhanced solution for cost-sensitive applications. This board-to-board and board-to-wire connector is an extended offering for the 1.27mm pitch portfolio. Robustness and reliable signal performance are provided through features such as solder clips, high-temperature resistance, polarization, and dual-beam female contacts — aligned with essential requirements for mating cycles and shock-and-vibration resistance. Design flexibility is given by different available configurations such as orientation, height, pin-count.

Features:

- Temperature resistance up to 125°C
- Current carrying capability of up to 1.7A/pin
- According to Shock & vibration according to IEC 60603 Class 2
- Durable for 100 mating cycles
- Resistant against 2 gases acc. IEC 60512-11-7

Benefits:

- Usable in high temperature environment
- Small connector - can be translated as space saving? with high current carrying capability
- Reduced performance which comes along with a price reduction

Advantages:

- Application can have or can be placed in a higher temperature environment
- Customer can have flexibility in terms of current that should go via connector (smaller or equal to max current)
- If customer need less performance than standard ERNI SMC Connector, this price reduced version can be used

Applications:



**MOTION
& DRIVES**



**AUTOMATION
CONTROLS**



**AUTOMATION
SENSORS**



**ROBOTICS
& WAREHOUSE
AUTOMATION**



**NETWORKING
DEVICES**

Technical Details:

Electrical

- Voltage rating: 25 VDC
- Current carrying capability: up to 1.7 A/pin @ 80°C
- Operating temperature: -40°C...125°C

Mechanical

- Durability: 100 mating cycles (IEC 60603)
- Performance category Shock & vibration: IEC 60603-2 class 2

- Atmosphere gas resistance: 2 gases per IEC 60512-11-7 (SO₂ and H₂S)

Materials

- Housing: LCP
- Contact: copper alloy
- Contact plating (terminal area): Sn over Ni
- Contact plating (mating area): Au flash over PdNi
- Packaging material: tape and reel with cap

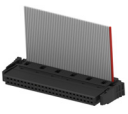
Standards

- RoHS
- REACH
- UL

Specifications

- TE product specification: 108-161899

Available configurations of first launch package of AMP SMC Essential Connector

Pin count		Board-to-Board - mezzanine configuration	Board-to-Board - coplanar configuration	Board-to-Board - orthogonal configuration	Board-to-Wire	
		Surface Mount Technology (SMT)			Insulation Displacement Connector (IDC)	
						
12	male	2524141-2 (vertical, 3.25mm height) 2532657-4 (vertical, 1.75mm height) 2532638-3 (vertical, 4.85mm height)		2532657-4 (vertical, 1.75mm height) 2524141-2 (vertical, 3.25mm height) 2532638-3 (vertical, 4.85mm height)		532657-4 (vertical, 1.75mm height) 2524141-2 (vertical, 3.25mm height) 2532638-3 (vertical, 4.85mm height)
	female	2524143-2 (vertical, 13.65mm height)		2532227-3 (angled)		2532653-3 (angled, IDC)
20	male			2532766-6 (angled)		
	female			2532228-3 (vertical, 6.25mm height)		
32	male	2524141-1 (vertical, 3.25mm height) 2532638-1 (vertical, 4.85mm height)	2532766-5 (angled)	2524141-1 (vertical, 3.25mm height) 2532638-1 (vertical, 4.85mm height) 2532766-5 (angled)		
	female	2532228-4 (vertical, 6.25mm height) 2524143-1 (vertical, 13.65mm height)	2532227-2 (angled)	2532227-2 (angled) 2532228-4 (vertical, 6.25mm height) 2524143-1 (vertical, 13.65mm height)		
40	male	2532657-3 (vertical, 1.75mm height)		2532766-4 (angled)		
	female	2532228-1 (vertical, 6.25mm height)		2532228-1 (vertical, 6.25mm height)		
50	male	2532657-1 (vertical, 1.75mm height) 2532638-2 (vertical, 4.85mm height)	2532766-3 (angled)	2532657-1 (vertical, 1.75mm height) 2532638-2 (vertical, 4.85mm height)	2532766-3 (angled)	2532657-1 (vertical, 1.75mm height) 2532638-2 (vertical, 4.85mm height)
	female	2524143-3 (vertical, 13.65mm)	2532227-1 (angled)	2524143-3 (vertical, 13.65mm) 2532227-1 (angled)	2532653-1 (angled, IDC)	2532653-1 (angled, IDC)
68	male	2524141-3 (vertical, 3.25mm height)			2532766-2 (angled)	2532657-2 (vertical, 1.75mm height) 2524141-3 (vertical, 3.25mm height)
	female	2532228-5 (vertical, 6.25mm height) 2537003-1 (vertical, 9.05mm height)			2532653-2 (angled, IDC)	2532653-2
80	male			2532766-1 (angled)		
	female			2532228-2 (vertical, 6.25mm height)		

Further configurations are continuously being added – also based on customer requests.

Please reach out to your TE specialist for more details.

First possible delivery date of series part numbers: from July 2026

About TE Connectivity

TE Connectivity plc (NYSE: TEL) is a global industrial technology leader creating a safer, sustainable, productive, and connected future. As a trusted innovation partner, our broad range of connectivity and sensor solutions enable the distribution of power, signal and data to advance next-generation transportation, energy networks, automated factories, data centers enabling artificial intelligence, and more.

Our more than 90,000 employees, including 10,000 engineers, work alongside customers in approximately 130 countries. In a world that is racing ahead, TE ensures that EVERY CONNECTION COUNTS. Learn more at www.te.com and on [LinkedIn](#), [Facebook](#), [WeChat](#) and [Instagram](#).

For complete product usage limitations, please refer to TE Connectivity's standard warranty clause and the corresponding 108 Product Specification document.

Connect With Us

We make it easy to connect with our experts and are ready to provide all the support you need. Visit te.com/support to chat with a Product Information Specialist.

TE Connectivity Industrial Automation and Electrification

te.com

AMP, TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any changes to the information contained herein without prior notice. TE Connectivity assumes only those obligations set forth in the terms and conditions for this product and shall in no event be liable for any incidental, indirect, or consequential damages arising out of the sale, resale, use, or misapplication of the product. TE expressly disclaims any implied warranties with respect to the information contained herein, including, but not limited to, implied warranties of merchantability or fitness for a particular purpose. Dimensions, specifications and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications and/or information. Users of TE Connectivity products must make their own assessment as to whether the respective product is suitable for the respective desired application.

© 2026 TE Connectivity. All Rights Reserved.

04-26 AK