





## **TERMINALS & SPLICES**

LINE CARD

TE Connectivity (TE) is your components provider for terminals and splices that help reduce cost, increase reliability, and enhance productivity. TE offers a broad portfolio of terminal and splice options, along with the tooling necessary for proper and efficient application to wire across multiple industries and applications. This line card will help you and your customers choose appropriate terminals and splices for their applications with access to additional information at te.com.

#### TERMINALS AND SPLICES LINE CARD

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Product Line	Product Features									
AMP MCP Terminals	AMP MCP contacts are 2 piece receptacle/tab designs with separate electrical and mechanical properties. This design enables excellent, reliable performance. The contacts suit customer needs for power connections in sealed and unsealed applications, wire to wire and wire to board applications, and high voltage or higher vibration applications.									
AMPLIVAR Terminals and Splices	AMPLIVAR magnet wire terminals and splices are designed to terminate copper and/or aluminum magnet wire. AMPLIVAR terminals and splices have a unique wire barrel design with serrations and burrs that produces a superior metal-to-metal compression crimp with excellent tensile strength.									
AMPOWER Terminals and Splices	AMPOWER terminals and splices provide a high quality solution that is designed specifically for large cables and leads to deliver maximum conductivity, excellent mechanical strength and electrical performance.									
AMPSEAL 16 HDSF Terminals	The AMPSEAL size 16 contact system offers a thicker and higher performance alloy base metal than most other formed size 16 contact systems. As a result, these contacts offer increased terminal/ beam strength and greater resistance to stress relaxation.									
AMPSEAL Terminals	AMPSEAL contacts, designed for cable-to-board applications, are 1.3mm pins and sockets in tin or gold plate. They are designed to accommodate a wire gauge range of 20-16AWG as well as 1.0mm² and 1.5mm² wire.									
BUDGET Terminals	The Budget terminal is primarily the same as the SOLISTRAND terminals without the brazed seam in the wire barrel. These terminals and splices fulfill the need for an economical and electrically superior termination where extreme vibration and tension on the wires are not present.									
Circular DIN Terminals	Circular DIN contacts can be used in the engine compartment for aggregate or sensor connections in the automotive industry, due to its wide range of performance possibilities. It has several lances which help lock the contact securely in the housing. The contacts guarantee constant insertion and extraction forces. They are resistant against fretting corrosion, vibration, and offer excellent longevity with the sturdy contact design.									
Closed End Splices	Pre-insulated Closed End Splices have been designed specifically to answer the need for inexpensive, insulated electrical terminations. They can be used in almost every type of commercial application where multiple wires need to be brought together for a reliable termination.									
COOLSPLICE Connector Series	CoolSplice connectors elegantly combine reliability with ease of termination. No need for special tooling; a common pair of pliers is used to pushbutton terminate insulated wires into an insulation displacement crimp contact.									
COPALUM Terminals and Splices	COPALUM Sealed Terminals and Splices solve the inherent problems of terminating aluminum conductors. These connectors are terminated to stranded aluminum wire using a "dry crimp." This technique eliminates the need for an inhibitor agent to break down the highly tenacious and inert oxides that form on aluminum conductors. This product offers a weight reduction of up to 60% over copper and drop-forged lugs with COPALUM Lite.									
DEUTSCH Common Contacts	The DEUTSCH common contact system improves performance, reliability, and maintainability by reducing changes in the assembly of the wire harness. The use of a common contact system eliminates many of the failures reported in harnesses where hundreds of different terminations are used.									
DIAMOND GRIP Terminals and Splices	DIAMOND GRIP terminals and splices utilizes a tin plated copper insulation support sleeve with "V" notches. The sleeve eliminates fraying of the insulation or breaking of the conductor. The "V" notches lock the wire insulation against vibration and pullout.									
Electro-Tap Splices	ELECTRO-TAP splices provide reliable tap wire termination of divergent or through type applications in compact size with simplicity of operation.									
FASTIN-FASTON Terminals and Housings	FASTIN-FASTON connectors offer the advantage of the FASTON technology with the addition of a locking lance which helps ensure firm retention of contacts when snapped into housings.									
FASTON Terminals and Housings	The very broad FASTON product line is designed for quick connections. It supports rapid application and installation while offering quality and uniform reliability. Receptacles and tabs are offered in a range of sizes, materials and styles along with optional single and multi-position insulated housings.									
MAG-MATE Terminals	TE offers a full selection of standard MAG-MATE insulation displacement crimp (IDC) terminals for magnet wire terminations. Two copper or aluminum magnet wires with the same diameter can be terminated in one terminal except as noted. No pre-stripping of wire is required and many different interfaces receptacle, tab, pin, post, etc are supported.									
Open Barrel Ring Tongue Terminals	TE Open Barrel Rings are designed for wire sizes ranging from 26 AWG to 6 AWG. They come in a variety of stud sizes. These terminals are made from a variety of base materials and platings depending on your application (i.e. ambient temperature, humidity, and chemical exposure).									
PIDG FASTON Terminals and Splices	Pre-Insulated Diamond Grip FASTON terminals and splices are designed for uniformed reliability in most difficult circuit environments. It consists of an unplated or tin-plated brass body or a tin-plated phosphor bronze body with a specially designed copper sleeve and insulation sleeve fitted over the terminal barrel.									
PIDG Terminals and Splices	Pre-Insulated Diamond Grip (PIDG) terminals and splices are designed for uniform reliability in the most difficult circuit environments, especially where high vibration and wire movement are factors. PIDG terminals and splices can be bent in any direction without fraying the wire insulation or breaking the conductor, ensuring high reliability.									
PLASTI-GRIP Terminals and Splices	PLASTI-GRIP terminals and splices are pre-insulated RBY terminals and splices designed specifically to answer the need for inexpensive, insulated electrical terminations. The quality, ease of installation and inherent simplicity make them ideal for almost all commercial applications.									
Positive Lock Terminals and Housings	Positive Lock receptacles are specifically designed to provide ease of assembly and secure retention to mating tabs. These unique features are attainable by the reduced insertion force and the locking dimple. Single and multi-position housings provide insulation and protection while easing installation and disconnection.									
Pre-Insulated Sealed Terminals and Splices	Pre-Insulated Sealed Terminals and Splices are environmentally sealed to prevent corrosion from fluids and vapors. Color-coded polyolefin heat-shrinkable sleeves impart exceptional insulation and wire support. Heavy duty insulation permits visual inspection. Available tooling provides a firm mechanical crimp, assuring electrical integrity.									
Push Grip Wire Connectors	Push Grip Wire Connectors allow for easy, fast installation and repairs through tool-less, poke-in termination. These splice products are color coded for easy identification and the compact size makes them a perfect choice for applications where space constraints are present.									
SIAMEZE Terminals	TE offers a full selection of SIAMEZE insulation displacement (IDC) terminals for interconnecting copper magnet wires, lead wires, and other components. The IDC terminal technology eliminates the need to strip the film insulation from copper magnet wires and lead wires. Numerous interface options are available.									
SOLISTRAND Terminals and Splices	SOLISTRAND terminals and splices are specifically engineered to ensure reliable and long lasting performance in the most punishing environments. SOLISTRAND terminals and splices are corrosion resistant, vibration resistant, and proudly feature a tensile strength well within the limits of commercial and military specifications.									
STRATO-THERM Terminals and Splices	STRATO-THERM terminals and splices offer a high temperature circuit hardware solution that is resistant to vibration, corrosion and flash-over, when they occur at high temperatures.									
Superseal Terminals	SUPERSEAL 1.0 terminals are designed for the transportation industry. The double spring contact design (main spring and auxiliary anti-overstress spring) insure low insertion and high contact forces.									
TERMINYL Terminals and Splices	TERMINYL products are designed and engineered to successfully withstand many vibration, shock and structural stresses, elevated temperatures and other conditions which can adversely affect the circuit requirements in complex air and space flight equipment									
Twist Splice Wire Connectors	Twist Splice Wire Connectors are color-coded splices that answer the need for inexpensive, insulated electrical installation terminations. They can be used in almost every type of residential and commercial application where multiple wires need to be brought together for a reliable termination.									
Ultra-Fast FASTON Terminals	The Ultra-Fast fully insulated FASTON receptacles and tabs offer the advantage of a completely protected terminal and a wire crimp with comparable electromechanical performance to open barrel "F" crimp FASTON Terminals. The "user-friendly" design combines easy mating with rounded corners.									
Ultra-Pod FASTON										
Terminals	Ultra-Pod fully insulated FASTON receptacles and tabs offer one-step automatic application of insulated quick connects. The unique integral plastic carrier designed specifically for this product allows insulated "F" Crimp terminations to be produced quickly and easily.									

	Applications			Termination Type	Wire Gauge Bar Range Typ		Insulated/ Uninsulated	Insulation Type of Material		Plating	Maximum Operating Temperature		Voltage Rating	
ce. or	•		•	Tabs, receptacles	0.2-16.0mm <sup>2</sup>	N/A	Varies by product	Yes	CuSn, CuFe, pre-tin, selective gold, selective silver	Gold, silver, tin, copper	150°C, 180°C optional		Varies	
lue	•		•	Magnet wire terminals and splices	30-6.5AWG, 0.05-9.45mm <sup>2</sup>	Open	Uninsulated	Varies by product	Brass, phosphor bronze, copper-nickel	Tin, gold	150°C	Ì	Rated according to terminated winding	
	•	•		Quick disconnects, rings, spades, splices	6AWG-1500MCM, 13-760mm <sup>2</sup>	Closed	Uninsulated	No	Brass, copper seamless tubing	Silver, Tin	105°C		UL486 Compliant	
	•		•	Pins, sockets	20-14AWG, 0.20- 2.50mm <sup>2</sup>	N/A	Insulated	Yes	Copper alloy	Nickel, Gold	125°C	Ì	N/A	
	•		•	Pins, sockets	20-16AWG, 0.50- 1.25mm <sup>2</sup>	Closed	Insulated	Yes	Copper alloy	Tin, gold	105°C		250 AC	
	•	•	•	Rings, spades, splices	26-10 AWG, 0.12 to 6.64 mm <sup>2</sup>	Closed	Uninsulated	No	Copper	Tin	170°C		Designed to handle the voltage rating for the assigned wire	
1	•		•	Pins, sockets	0.2-2.5mm <sup>2</sup>	N/A	Insulated	Yes	Gold, silver, tin	Gold, silver, tin	150°C		Varies	
	•	•	•	Splices	22-6AWG, 0.3-1.6mm <sup>2</sup>	Closed	Insulated	Yes	Copper	Tin	105°C		600V	
	•		•	Splices	22-12AWG, 0.34-4.0mm <sup>2</sup>	N/A	Insulated	Yes	Phosphor bronze	Tin	105°C		600 V	
on	•	•	•	Rings, splices	16AWG-500MCM, 1.25-253mm <sup>2</sup>	Closed	Uninsulated	Varies by product	Aluminum, copper	Tin/nickel	150°C; 260°C		600V	
	•		•	Pins, sockets	22-4AWG, .035-25.0mm <sup>2</sup>	Varies by product	N/A	Varies by product	Copper alloy	Gold, nickel, palladium-nickel w/ gold flash, tin	Varies		Varies	
r	•	•	•	Rings, spades, splices	26-8AWG, 0.1-10.5mm <sup>2</sup>	Closed	Varies by product	Varies by product	Copper, alumel, chromel, nickel	Silver, tin, tin-lead, nickel	170°C, 343°C (Heat Resistant), 649°C (High Temp)			
	•		•	Splices	24-10AWG, 0.20-5.3mm <sup>2</sup>	N/A	Insulated	Yes	Brass, phosphor bronze	Tin	105°C		500V	
ets			•	Quick disconnects, housings	24-10AWG, 0.20-5.3mm <sup>2</sup>	Open	Uninsulated	Yes	Brass, nylon	Tin, pre-tin	125°C		250V	
	•		•	Quick disconnects	26-8AWG, 0.13-8.37mm <sup>2</sup>	Open	Varies by product	Varies by product	Brass, steel, phosphor bronze	Tin, pre-tin, nickel, silver	250C, 371C (High Temp)		Rated according to wire size and application	
-	•		•	Magnet wire terminals	44-12AWG, 0.05-2.05mm <sup>2</sup>	IDC Slot	Uninsulated	Varies by product	Brass, copper alloy, phosphor bronze, premilled brass	Tin, copper, pre-tin	110°C		Rated according to terminated winding	
	•		•	Rings	26-6AWG, 0.13-15.0mm <sup>2</sup>	Open	Uninsulated	Varies by product	Brass, Lu-bronze, phosphor bronze, stainless steel, steel	Nickel, tin, pre-tin	250C		Rated according to wire size and application	
al	•	•	•	Quick disconnects	26-10AWG, 0.12-6.0mm²	Closed	Insulated	Yes	Copper	Tin	105°C		300V	
	•	•	•	Rings, spades, splices	26-10AWG, 0.12-6.0mm <sup>2</sup>	Closed	Insulated	Yes	Copper	Tin	105°C, PVF2 up to 150°C		300V	
	•	•	•	Rings, spades, splices, receptacles, tabs, wire pins	26-2/0AWG, 0.10-76.3mm <sup>2</sup>	Closed	Insulated	Yes	Copper	Tin	105°C		600V	
	•		•	Quick disconnects, housings	26-10AWG, 0.12-6.0mm <sup>2</sup>	Open	Varies by product	Varies by product	Brass, phosphor bronze, stainless steel, nylon	Nickel, pre-tin, tin	250C		Rated according to wire size and application	
	•	•	•	Rings, spades, splices, quick disconnects	22-8AWG, 0.26-10.5mm <sup>2</sup>	Closed	Insulated	Yes	Brass, copper	Tin	125°C		600V	
	•		•	Splices	22-12AWG, 0.5-2.5mm <sup>2</sup>	N/A	Uninsulated	No	Copper	Tin	105°C		600 V	
he	•		•	Magnet wire terminals	36-12AWG, 0.13-2.06mm <sup>2</sup>	IDC Slot	Uninsulated	No	Brass, copper alloy	Pre-tin, pre-silver, tin	110°C		Rated according to terminated winding	
1	•	•	•	Rings, spades, tabs, wire pins, splices	26-4/0AWG, 0.10-117mm <sup>2</sup>	Closed	Uninsulated	No	Copper, nickel (High Temp)	Tin, nickel (High Temp)	170C, 343C(Heat Resistant), 649C(High Temp)		Designed to handle the voltage rating for the assigned wire	
	•	•	•	Rings, splices, wire caps	22-6AWG, 0.26-16.8mm <sup>2</sup>	Closed	Insulated	Yes	Copper	Gold over nickel, nickel	288°C		Designed to handle the voltage rating for the assigned wire	
	•		•	Receptacles	0.5-1.25mm <sup>2</sup>	N/A	Insulated	Yes	Gold Interface, Tin Crimp	N/A	N/A		N/A	
	•	•	•	Rings, splices	12-4/0AWG, 2.62-117mm²	Closed	Insulated	Yes	Copper	Tin, tin-lead	105°C		DWV tested to 1500V	
	•		•	Splices	22-6AWG, 0.33-13.3mm <sup>2</sup>	N/A	Uninsulated	No	Steel	N/A	105°C		600V	
	•		•	Quick disconnects	26-10AWG, 0.12-6.0mm <sup>2</sup>	Closed	Insulated	Varies by product	Copper alloy	Tin	105°C		600V	
	•		•	Quick disconnects	22-10AWG, 0.3-5.26mm <sup>2</sup>	Open	Insulated	Yes	Brass, steel, copper alloy	Nickel, tin	150°C		600V	
	•		•	Ferrules	20-7AWG, 0.50-10mm <sup>2</sup>	Closed	Insulated	Yes	Copper	Tin	N/A		Designed to handle the voltage rating for the assigned wire	

### 1 INDUSTRIAL APPLICATIONS



Applicator Hand Tool Availability Availability

No special tools required

No special tools required

No special tools required

No special tools required

Industrial production today is shaped by a market that is changing at an unprecedented speed. From industrial control cabinets to material handling applications, TE's industrial terminal and splices solutions provide the basis for this flexible production — ensuring you are ready to meet the needs of the future head on.

# 2 AEROSPACE AND MILITARY APPLICATIONS



TE's high-performance terminals and splices are designed specifically to operate in extremely rigorous environments in military and aerospace applications. Our terminals and splices meet or exceed applicable industrial requirements and military specifications. Whether your application is a corporate jet, a helicopter, or a military aircraft, we are continually innovating to give you the best combination of cost, increased reliability, and performance.

## **3** COMMERCIAL APPLICATIONS



As a premier technology partner and a reliable strategic supplier, we deliver a broad range of innovative connectivity solutions for commercial products. TE terminals and splices provide a broad range of products for use in electric motors, white goods, garage door openers, HVAC systems, security equipment, small appliances and more.

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#### WHAT ARE TERMINALS AND SPLICES?

Terminals and splices are wire connection products which mechanically and electronically join wires to various components or other wires.

#### TARGET MARKETS

- Aerospace and Defense
- Appliances
- Automotive
- Building Safety and Security
- Communications
- Energy
- HVAC
- Industrial
- Lighting
- Marine
- Rail

#### **APPLICATIONS**

- Control Panels
- Electric Motors and Solenoids
- Elevators and Escalators
- Engines
- Fuel Supply Systems
- Missile and Defense
- Robotics
- Safety Systems
- Solar Power
- Wind Turbines
- White Goods

#### TE APPLICATION TOOLING

TE offers a full range of application tooling equipment optimized for your production needs and budget. Our equipment and services are designed to maximize production uptime, extend tooling life, and minimize manufacturing waste. Please contact TE Application Tooling to identify the exact solution for your terminal, splice, or contact part number.

**Application Tooling Website** 

ToolingSales@te.com | +1-717-810-2082

#### TERMINALS AND SPLICES LONG FORM GUIDE

Learn more about TE's terminals and splices by downloading the Terminals and Splices Long Form Guide. This guides features TE's extensive terminals and splices offerings within the product families you see here. Find the long form guide, as well as preferred parts list and product fact sheet, on TE's Channel Connection.

#### te.com

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