



# TE Connectivity

## Industrial Solutions Guide



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# TE Connectivity's AMP and DEUTSCH Components



**AMPSEAL**  
Page 6



**AMPSEAL 16**  
Page 6



**Unsealed AMP MCP**  
Page 7



**Circular DIN**  
Page 7



**HDSCS**  
Page 8



**LEAVYSEAL**  
Page 8



**SUPERSEAL 1.0**  
Page 9



**DEUTSCH AEC**  
Page 9

# TE Connectivity's AMP and DEUTSCH Components



**DEUTSCH DRB**  
Page 10



**DEUTSCH DRC**  
Page 10



**DEUTSCH DT**  
Page 11



**DEUTSCH DTHD**  
Page 12



**DEUTSCH HD10**  
Page 12



**DEUTSCH HD30  
and HDP20**  
Page 13



**DEUTSCH Sealed PCB  
Enclosures and Headers**  
Page 14



**Jiffy Splices**  
Page 14





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## Field Proven Components for Tough Environments

Field proven on challenging factory floors where dirt, temperatures and humidity can fail lesser connectors, TE Connectivity (TE) components are just as reliable in the disinfected pressure cooker of a surgical operating room. Whether your needs are connectors that can survive multiple washdown cycles in food processing or need to be reliable because of the difficulty in replacing a failure at the top of a 200-foot tall wind turbine, TTI and TE have the connectors that fit your design.



## The Right Rx for Medical Equipment

TE Connectivity manufactures several types of connectors designed for diagnostic applications. The DEUTSCH HD10 Series feature multiple contact arrangements, environmental sealing and the optional ability to color code the body and coupling ring for ease of proper mating.



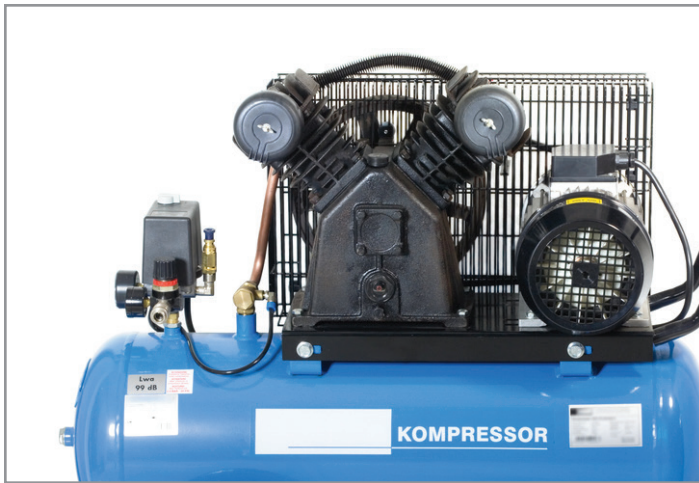
## Tasty Industrial Options for Food Processing

Because these industrial grade connectors are designed with environmental sealing features, they are perfect for equipment in washdown areas. Situations where frequent sanitation processes can subject the connection to harsh chemicals, extreme temperatures and moisture call for heavy-duty TE connectors.



## The Right choice for Alternative Energy Systems

In a field of solar panels, or a forest of wind turbines, TE connection systems provide dependable circuits in areas where a failure means downtime and difficult, hazardous replacement. 200-feet in the air or in a 120-degree desert aren't places where maintenance is easy. TE connectors keep the energy flowing.



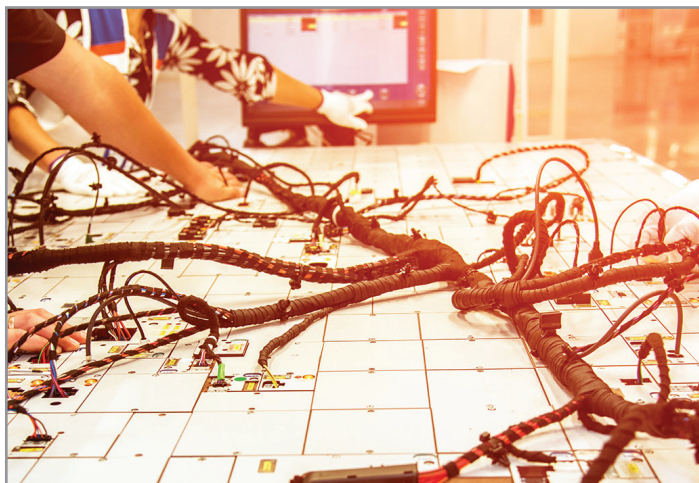
## Go-anywhere Performance in Portable Power Systems

Portable power generators can be found attached to the back of an RV, at a campsite, or powering a field hospital. In weather emergencies when available utility power may not be available, reliability is a must. TE connectors ensure the juice gets where it needs to go, under all conditions.



## Build a Better Robot

Industrial robots can be tough on connectors. Repetitive motion stress, industrial environments, vibration, heat from welding – the environmental challenges can be difficult for ordinary connectors to survive. Field proven TE connectors are designed to stand up to these hazards and perform day after day.



## Harness Real Performance for Commercial Wire Goods

Building wiring harnesses for industrial and commercial applications means your finished product is only as good as its weakest link. With TE industrial connectors from TTI you're assured that connectors are not that link. You won't go wrong specifying TE, and with TTI you know those components will be where you need them, when you need them.



## Sign These Up for Digital Billboards

Sign painters hanging from scaffolding have been replaced by pixels and bright clear images that can be changed out in an instant from virtually anywhere. Provided, of course, that the sign has TE connectors behind the electronics. Built to combat outdoor extremes, moisture, heat, cold, humidity and gale force vibrations, TE connection systems are on the job 24/7/365.





## AMPSEAL

AMPSEAL connectors provide rugged reliability and environmental sealing. They are available in cable plugs and PCB mount headers that are designed to stand up to high temperature, underhood applications.

The pre-assembled receptacle housing connector features built-in contact sealing and an integral interfacial seal that protects mated connectors.

### Application: Sealed Wire-to-Board

#### Performance Specifications

Plating	Sizes (Positions)	Wire Range	Current	Temperature
Gold	8, 14, 23, and 35	16 - 20 AWG	17 A	-40°C to +125°C
Tin			8 A	-40°C to +105°C

Durability	Insulation Resistance	Immersion	Voltage
10 Cycles	10 Megohms	IP67	250 VAC

#### Material Specifications

Wire Seal	Mating Seal	Cover	Locking Wedge	Flammability
Silicon Rubber	Silicon Rubber	Glass-filled PBT	PBT	UL94 V-0

#### Product Features

- 1.3mm Contact System (Lanceless Contacts)
- Tin and Gold Plating Options for Contacts
- Vertical and Right-angle Header Options
- Sealing Plugs Available for Unused Cavities
- Wire Relief Covers (Backshells) Available for Receptacle Housings
- Multiple Colors Available for Different Keying Versions
- AMPSEAL Wire Seal Fully Sealed Prior to Terminal Population
- Integrated Wedglock Confirms Contact Alignment and Retention



## AMPSEAL 16

The AMPSEAL 16 connector system is targeted for off-road, heavy-duty industrial, recreational and agricultural applications. This wire-to-wire and wire-to-device connector line is designed to meet the rigorous demands of an industry that requires the highest standards in performance.

### Application: Sealed Wire-to-Wire

#### Performance Specifications

Sizes (Positions)	Wire Range	Current	Temperature
2, 3, 4, 6, 8 and 12	14 - 20 AWG	13 A	-40°C to +125°C

Durability	Insulation Resistance	Immersion	Voltage
50 Cycles	20 Megohms	IP67	250 VDC

#### Material Specifications

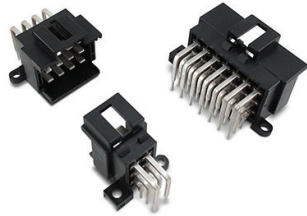
Wire Seal	Plug Peripheral Seal	Housing
Silicon Rubber	Silicon Rubber	15% Glass-filled Thermoplastic

CPA	PLR	Flammability
15% Glass-filled Thermoplastic	15% Glass-filled Thermoplastic	UL94HB

#### Product Features

- HDSF Size 16 Contact System
- Nickel and Gold Plating Options for Contacts
- Connectors Come Fully Assembled with Integrated Wedglock and Secondary Locking System
- Sealing Plugs Available for Unused Cavities
- Strain-relief Backshell Covers Available for Plug and Cap Connectors in 90° and 180°
- Four Colors and Polarization Keys Available
- Mounting Clip Compatible
- End Caps Standard on all Connectors



## Unsealed AMP MCP

AMP MCP unsealed housing connectors feature 6 to 36 cavity arrangements available with a locking latch or lever latch mating mechanism. AMP MCP housing accepts size 2.8 and 1.5K contacts.

### Application: In-cabin Applications

#### Performance Specifications

Plating	Sizes (Positions)	Wire Range	Current	Temperature
Tin	6 to 21	0.75 - 4.0 mm <sup>2</sup>	Up to 31 A	-40°C to +120°C
Silver	25 and 36			

Plating	Durability	Insulation Resistance	Immersion	Voltage
Tin	10 Cycles	500 VDC	IP30	28 VDC
Silver	50 Cycles			

#### Material Specifications

Plating	Sec Lock	Flammability
Tin	PBT GF 15	PBT GF 15
Silver		UL 94V-0 Options

#### Product Features

- Modular System
- Polarized to Prevent Improper Mating
- Inline, Bulkhead, PCB Mount Options
- Mating Aid to Reduce Mating Force
- Integrated Secondary Lock Confirms Contact Alignment and Retention
- Flame Retardant Material Options
- Mechanical and Color Keyed



## Circular DIN

These Circular DIN connectors are designed to meet the requirements of the DIN 72585/ISO 15170 standards. They feature a coupling ring for mating. Circular DIN connectors are suitable for in-line, flange mount or PCB applications.

### Application: Wire-to-Board/Wire-to-Device/Wire-to-Wire

#### Performance Specifications

Sizes (Positions)	Wire Range	Current	Temperature
2, 3, 4, 5, 6 and 7	0.2 - 4.0 mm <sup>2</sup>	40 A	-40°C to +120°C

Durability	Insulation Resistance	Immersion	Voltage
20 Cycles	1000 VDC	IPX7, IPX9K	1000 VAC

#### Material Specifications

Flange Seal	Housing
Silicon Rubber	Glass-filled PBT and PA

#### Product Features

- Accepts Contact Size 1.5mm (up to 30 amps) and 2.5mm (up to 40 amps)
- 2, 3, 4, 5, 6 and 7 Cavity Arrangements
- In-line, Flange or PCB Mount
- Circular, Thermoplastic Housing
- Coupling Ring for Mating



## HDSCS

The HDSCS connectors offer several cavity arrangements and mixed wire sizes. The rugged, thermoplastic connectors have a secondary lock with poke-yoke feature and can be used for in-line or flange mount applications. HDSCS connectors are available in five housing sizes and four keying options.

**Application: Sealed Wire-to-Wire and Bulkhead**

### Performance Specifications

Plating	Sizes (Positions)	Wire Range	Current	Temperature
Gold	2, 3, 4, 6, 7, 8, 10, 12, 15, 16 and 18	6.0 - 0.2 mm <sup>2</sup>	Up to 40 A	-40°C to +140°C
Silver				
Tin				

Plating	Durability	Insulation Resistance	Immersion	Voltage
Gold	100 Cycles	500 VDC	IP67 IP69k with covers	Up to 60 VDC
Silver	50 Cycles			
Tin	10 Cycles			

### Material Specifications

Flange Seal	Seal for Secondary Locking	Housing
Silicon Rubber	Silicon Rubber	Glass-filled PBT

Secondary Locking	Slide Lock	Flammability
Glass-filled PBT	Glass-filled PBT	UL 94 V0

### Product Features

- Accepts Contact Sizes 6.3/4.8K (up to 40 amps), 2.8 (up to 40 amps), and 1.5K (up to 20 amps)
- Tin, Silver and Gold Contact Plating Options
- Integrated Secondary Locking System
- Free-hanging and Bulkhead Options for Most Sizes
- Wire Covers with Tubing Adaptors are Available
- Multiple Colors with Polarization Keys
- Different Contact Sizes for Signal and Power Needs in Same Housing



## LEAVYSEAL

The rugged LEAVYSEAL connectors are multi-pin and accept multiple wire sizes. LEAVYSEAL products utilize a lever lock system for mating and are available in several mounting styles and keying options. The housings come in seven sizes and feature an integrated cable attachment.

**Application: Sealed Bulkhead and Wire-to-Device**

### Performance Specifications

Plating	Sizes (Positions)	Wire Range	Current	Temperature
Gold	15, 18, 21, 22, 26, 29, 31, 39, 46, 62, 92 and 120	6.0 - 0.2 mm <sup>2</sup>	40 A	-40°C to +140°C
Silver				
Tin				

Plating	Durability	Insulation Resistance	Immersion	Voltage
Gold	100 Cycles	500 VDC	IP69K	Some up to 42 VDC
Silver	50 Cycles			
Tin	20 Cycles			

### Material Specifications

Flange Seal	Housing
Silicon Rubber	Glass-filled PBT

Secondary Locking	Flammability
Glass-filled PBT	Two Material Options Available: HB Materials and UL 94 V0

### Product Features

- Accepts Contact Sizes 6.3/4.8K (up to 40 amps), 2.8 (up to 40 amps) and 1.5K (up to 20 amps)
- Tin, Silver and Gold Contact Plating Options
- Integrated Secondary Locking System
- Available Wire Routing Covers with Tubing Adaptors
- Multiple Colors with Polarization Keys
- PCB Headers Available for Some Sizes
- Options for Corrugated Tubes and Multi-core Wires
- Lever for Ease of Mating and Un-mating High Cavity Arrangements





## SUPERSEAL 1.0

The Superseal 1.0 mm connectors are designed to meet the increasing need for dependable printed circuit board applications in harsh environments. The Superseal headers are available with straight or right-angle pins. Various locking latch options and keying configurations are available.

### Application: Sealed Wire-to-Board

#### Performance Specifications

Sizes (Positions)	Wire Range	Current	Temperature
26, 34 and 60	1.25 - 0.50 mm <sup>2</sup>	15 A	-40°C to +125°C

Durability	Insulation Resistance	Immersion	Voltage
25 Cycles	100 Megohms	IP67	250 V AC/DC

#### Material Specifications

Grommet	Housing	TPA
Silicon Rubber	Thermoplastic	Thermoplastic Polyester

#### Product Features

- 1.0 mm Contact System
- Gold Plated Contacts
- Vertical and Right-angle Header Options
- Sealing Plugs Available for Unused Cavities
- Multiple Polarization Options
- 2-Row Plug Available for Narrow Packaging Applications



## DEUTSCH AEC

DEUTSCH AEC connectors are environmentally sealed, heavy-duty electrical connectors that accept size 16 DEUTSCH contacts. The AEC connectors are constructed of rugged thermoplastic and offer several keying options.

### Application: Cable-to-Cable

#### Performance Specifications

Sizes (Positions)	Wire Range	Current	Temperature
40	2.0 - 0.50 mm <sup>2</sup>	13A	-55°C to +125°C

Durability	Insulation Resistance	Immersion	Voltage DWV
100 Cycles	1000 Megohms	IP68	1500 VAC

#### Material Specifications

Grommet	Jackscrew	Plug Threaded Inserts
Silicon Rubber	Stainless Steel	Stainless Steel

Receptacle Threaded Inserts	Shell
Stainless Steel/ Brass	Glass-filled PEI

#### Product Features

- Accepts Contact Size 16 (13 amps)
- 40 Cavity Arrangement
- In-line Mount
- Square, Thermoplastic Housing
- Jackscrew for Mating



## DEUTSCH DRB

DEUTSCH DRB connectors are heavy-duty connectors suitable for bulkhead applications. They are designed to accommodate multiple wire gauges and feature high pin counts, including 48, 60, 102, and 128 cavities. To increase the design flexibility, the DRB connectors offer several mounting flange options and wire arrangements.

**Application: Sealed Wire-to-Wire**

### Performance Specifications

Sizes (Positions)	Wire Range	Temperature	Durability
48, 60, 102 and 128	16.0 - 0.35 mm <sup>2</sup>	-55°C to +125°C	100 Cycles

Insulation Resistance	Immersion	Voltage DWV
1000 Megohms	IP68	1500 VAC

### Material Specifications

Flange Body	Flange Clip	Grommet
Glass-filled PA	Spring Steel	Silicon Rubber

Jackscrew	Shell	Wedgelocks
Stainless Steel	Glass-filled PA	Glass-filled PBT

### Product Features

- Accepts Contact Sizes 4 (100 amps), 8 (60 amps), 12 (25 amps), 16 (13 amps), and 20 (7.5 amps)
- Flange Mount
- Rectangular, Thermoplastic Housing
- Jackscrew for Mating
- Wedgelocks Confirm Contact Alignment and Retention



## DEUTSCH DRC

The environmentally sealed DEUTSCH DRC connectors are a rectangular connector series that offers insert arrangements of 24, 40, 50, 60, 64 and 70 cavities and accept size 16 and 20 DEUTSCH contacts. Several mounting options are available including in-line, flange mount and PCB mount.

**Application: Wire-to-Wire, Wire-to-Board and Wire-to-Device**

### Performance Specifications

Sizes (Positions)	Wire Range	Temperature
24, 40, 50, 60, 64 and 70	2.50 - 0.35 mm <sup>2</sup>	-55°C to +125°C

Durability	Insulation Resistance	Immersion	Voltage DWV
100 Cycles	1000 Megohms	IP68	1500 VAC

### Material Specifications

Grommet	Insert Retainer	Jackscrew
Silicon Rubber	Unfilled PEI	Stainless Steel

Receptacle Threaded Inserts	Shell
Stainless Steel/Brass	Glass-filled PA, Glass-filled PPS

### Product Features

- Accepts Contact Sizes 16 (13 amps) and 20 (7.5 amps)
- In-line, Flange, or PCB Mount
- Rectangular, Thermoplastic Housing
- Jackscrew for Mating



## DEUTSCH DT

DEUTSCH DT, DTM, DTMH and DTP environmentally sealed connectors are designed for cable-to-cable and cable-to-board applications. They are used in harsh environment applications where even a small degradation in connection may be critical.

Thermoplastic housings offer a wide operating temperature range and silicone rear wire and interface seals allow the connectors to withstand conditions of extreme temperature and moisture.

DEUTSCH DT connectors offer field proven reliability and rugged quality. The DT design strengths include optional flange mounting, multi-pin arrangements and design flexibility. The DT connectors offer the designer the ability to use multiple size 16 contacts, each with 13 amp continuous capacity, within a single shell.

DEUTSCH DTM connectors offer solutions for smaller wire gauge applications. Building on the DT design strengths, the DTM connector line was developed to fill the need for lower amperage, multi-pin connectors. The DTM connectors offer the designer the ability to use multiple size 20 contacts, each with 7.5 amp continuous capacity, within a single shell.

DEUTSCH DTMH connectors are environmentally sealed, high temperature connectors capable of operating in temperatures from -55° to +150°.

DEUTSCH DTP connectors provide solutions for your power application requirements. Building on both the DT and DTM design strengths, the DTP connector line was developed to fill the need for higher amperage, multi-pin connectors. The DTP connectors offer the designer the ability to use multiple size 12 contacts, each with 25 amp continuous capacity, within a single shell. The DTP connectors are currently available in two and four pin configurations.

### Application: Sealed Wire-to-Wire

#### Performance Specifications

Series	Sizes (Positions)	Wire Range	Temperature	Durability	Insulation Resistance	Immersion	Voltage
DT	2, 3, 4, 6, 8 and 12	6.0 - 0.35 mm <sup>2</sup>	-55°C to +125°C	100 Cycles	1000 Megohms	IP68	1500 VAC
DTM			-55°C to +150°C				
DTMH			-55°C to +125°C				
DTP	2 and 4						

#### Material Specifications

Grommet	Receptacle Interfacial Seal	Receptacle Threaded Inserts	Shell	Wedgelocks
Silicon Rubber	Silicon Rubber	Stainless Steel	Glass-filled PA	Glass-filled PBT

#### Product Features

- Size 16 Contacts
- Tin, Nickel and Gold Plating Options
- In-line, Flange Mount, and PCB Options
- Wedgelocks Confirm Contact Alignment and Retention
- Mounting-Clips are Available
- DT Detector Connectors are Available for 12 and 24 Volt Applications





## DEUTSCH DTHD

DTHD connectors are single terminal connectors for heavy-duty applications. Easy to install, environmentally sealed and compact in size, they are a simple, field-serviceable alternative to a splice. DTHD connectors are available in three sizes, carry 25 to 100 amps, and can be mounted or used in-line.

**Application: Sealed Wire-to-Wire**

### Performance Specifications

Sizes (Positions)	Wire Range	Temperature	Durability
4, 8 and 12	6.0 - 0.35 mm <sup>2</sup>	-55°C to +125°C	100 Cycles

Insulation Resistance	Immersion	Voltage DWV
1000 Megohms	IP68	1500 VAC

### Material Specifications

Grommet	Shell
Silicon Rubber	Thermoplastic PEI

### Product Features

- Accepts Contact Sizes 4 (100 amps), 8 (60 amps) and 12 (25 amps)
- One Cavity Arrangement
- In-line or Flange Mount
- Circular, Thermoplastic Housing
- Integrated Latch for Mating
- Available Accessories: Mounting Clips



## DEUTSCH HD10

The DEUTSCH HD10 connectors are an environmentally sealed, thermoplastic, and cylindrical connector series. With arrangements from 3 to 9 cavities, HD10 connectors accept size 4, 12 or 16 contacts and are available either in-line or flanged. HD10 connectors are heavily used for diagnostic applications.

**Application: Sealed Wire-to-Wire**

### Performance Specifications

Sizes (Positions)	Wire Range	Temperature
3, 4, 5, 6 and 9	13.0 - 0.50 mm <sup>2</sup>	-55°C to +125°C

Durability	Insulation Resistance	Immersion	Voltage DWV
100 Cycles	1000 Megohms	IP68	1500 VAC

### Material Specifications

Grommet	Insert Retainer	Receptacle Interfacial Seal	Shell
Silicon Rubber	Thermoplastic	Silicon Rubber	Thermoplastic

### Product Features

- Size 16, 12 and 4 Contacts
- In-line, Flange or PCB Mount
- Backshells, Boots, Dust Caps, Gaskets, Lanyards and Mounting Clips are Available
- Coupling Ring for Mating
- Strain-reliefs are Available



## DEUTSCH HD30 & HDP20

The HD30 and HDP20 connectors are heavy-duty, environmentally sealed, multi-pin circular connectors. Available in two sizes with metal or thermoplastic housings, these connectors offer 19 contact configurations and accept contact sizes 4 through 20, for a variety of arrangements for signal and power from 7.5 Amps to 100 Amps.

The DEUTSCH HD30 connectors are constructed from a metal shell developed to meet the needs

of the heavy-duty equipment.

The HD30 features include quick connect/disconnect bayonet coupling, single hole bulkhead mounting, silicone seals and a rear insertion/rear removal contact system.

The HDP20 connectors are heavy-duty rated, environmentally sealed, composite shell, multi-pin connectors. The composite thermo-plastic shell is suited for applications where chemicals can damage a connector housing. HDP20 features quick connect-coupling, single hole bulkhead mounting, silicone seals and a rear insertion/rear removal contact system.

### Application: Sealed Wire-to-Wire, In-line and Panel Mount

#### Performance Specifications

Sizes (Positions)	Wire Range	Temperature	Durability	Insulation Resistance	Immersion	Voltage DWV
6, 7, 8, 9, 14, 16, 18, 19, 20, 21, 23, 29, 31, 33, 35 and 47	13.0 - 0.35 mm <sup>2</sup>	-55°C to +125°C	100 Cycles	1000 Megohms	IP68	1500 VAC

#### Material Specifications

Series	Grommet	Insert Retainer	Pulse Coupling Ring	Shell
HD30	Silicon Rubber	Unfilled PEI	Aluminum	Aluminum
HDP20	Silicon Rubber	Unfilled PEI	Glass-filled PA	Glass-filled PA

#### Product Features

- 19 Contact Arrangements
- 2 Shell Sizes
- 18-Shell Size: 6, 8, 14, 20 and 21 Position
- 24-Shell Size: 7, 9, 14, 16, 18, 19, 21, 23, 29, 31, 33, 35 and 47 Position
- Size 20, 16, 12, 8 and 4 Contacts
- In-line or Bulkhead Mounting
- Mounting Hardware and Dust Caps are Available
- Three Wire Seal Options (for Various Insulations)
- Strain-reliefs, Backshells and Conduit Adaptors are Available



## DEUTSCH Sealed PCB Enclosures and Headers

DEUTSCH PCB enclosures and headers are rugged, environmentally sealed solutions for printed circuit board applications. The enclosures feature through hole mounting flanges, as well as optional venting. Designed with space to accommodate one or more DEUTSCH DT or DTM connector interfaces, the headers feature 90° pins. A radial flange seal provides environmental sealing to the enclosure. The headers mate with standard DEUTSCH DT and DTM plugs.

### Application: Sealed Wire-to-PCB

#### Performance Specifications

Sizes (Positions)	Wire Range	Temperature	Immersion
12, 14, 36 and 48	14 - 20 AWG	-55°C to +125°C	IP68

#### Material Specifications

Housing	CPA	Mating Pins
Thermoplastic	Gold over Ni	Tin-lead over Ni-Soldering Pins

#### Product Features

- Size 20 and 16 Contacts
- Tin, Nickel and Gold Plating Options
- Polarized Headers/Plugs
- Clear PEI Natural Option for Diagnostics
- Available with and without Venting
- Custom Header Plates Available



## Jiffy Splices

TE Connectivity's Jiffy Splice for DEUTSCH contacts is designed to withstand the harsh conditions of the construction, mining, marine and agricultural industries. It is easy to install and can be used to quickly repair damaged electrical connections on equip-

#### Performance Specifications

Sizes	Wire Range	Current	Temperature
Size 12	12 - 14 AWG	25 A	-55°C to +125°C
Size 16	14 - 20 AWG	13 A	

#### Material Specifications

Silicone Elastomer

#### Product Features

- 12-20 AWG (6.00 - 0.50mm<sup>2</sup>)
- One Cavity Arrangement, Available in Two Sizes
- In-line
- Cylindrical, Silicone Elastomeric Body
- Size 16 and 12 Contacts





# TE Connectivity Industrial Connectors – Application Guide

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	Sizes (Positions)	Wire Range	Temperature	Durability	Insulation Resistance	Immersion	Voltage	Medical Equipment	Robotics	Food Processing	Commercial White Goods	Portable Power Equipment	Solar Power Equipment	Aftermarket Vehicle Mods	Digital Billboards
<b>Sealed Wire-to-Wire</b>															
AMPSEAL 16 Connectors	2, 3, 4, 6, 8 and 12	2.0 - 0.5 mm <sup>2</sup>	-40°C to +125°C	50 Cycles	20 Megohms	IP67	250 VDC	◆	◆	◆	◆	◆	◆	◆	◆
DEUTSCH AEC Connectors	40	2.0 - 0.5 mm <sup>2</sup>	-55°C to +125°C	100 Cycles	1000 Megohms	IP68	1500 VAC		◆	◆	◆				
DEUTSCH DRB Connectors	48, 60, 102 and 128	16.0 - 0.35 mm <sup>2</sup>	-55°C to +125°C	100 Cycles	1000 Megohms	IP68	1500 VAC		◆	◆	◆				
DEUTSCH DRC Connectors	24, 40, 50, 60, 64 and 70	2.5 - 0.35 mm <sup>2</sup>	-55°C to +125°C	100 Cycles	1000 Megohms	IP68	1500 VAC		◆	◆	◆				
DEUTSCH DT Connectors	2, 3, 4, 6, 8 and 12	6.0 - 0.35 mm <sup>2</sup>	-55°C to +150°C	100 Cycles	1000 Megohms	IP68	1500 VAC	◆	◆	◆	◆	◆	◆	◆	◆
DEUTSCH DTHD Connectors	4, 8 and 12	6.0 - 0.35 mm <sup>2</sup>	-55°C to +125°C	100 Cycles	1000 Megohms	IP68	1500 VAC					◆	◆	◆	◆
DEUTSCH HD10 Connectors	3, 4, 5, 6 and 9	13.0 to 0.50 mm <sup>2</sup>	-55°C to +125°C	100 Cycles	1000 Megohms	IP68	1500 VAC	◆	◆	◆	◆	◆	◆	◆	◆
DEUTSCH HD30 Connectors	6, 7, 8, 9, 14, 16, 18, 19, 20, 21, 23, 29, 31, 33, 35 and 47	13.0 - 0.35 mm <sup>2</sup>	-55°C to +125°C	100 Cycles	1000 Megohms	IP68	1500 VAC		◆	◆	◆				
DEUTSCH HDP20 Connectors	◆							◆	◆	◆	◆	◆	◆		
DEUTSCH HDSCS Connectors	2, 3, 4, 6, 7, 8, 10, 12, 15, 16 and 18	6.0 - 0.2 mm <sup>2</sup>	-40°C to +140°C	10, 50 and 100 Cycles	500 VDC	IP67 IP69K with covers	Up to 60 VDC		◆	◆	◆				
Jiffy Splice	12 and 16	6.0 - 0.5 mm <sup>2</sup>	-55°C to +125°C						◆	◆	◆	◆	◆	◆	◆
<b>Sealed Wire-to-Board</b>															
AMPSEAL Connectors	8, 14, 23, 35	1.31 - 0.52 mm <sup>2</sup>	-40°C to +125°C	10 Cycles	10 Megohms	IP67	250 VAC	◆	◆	◆	◆	◆	◆	◆	◆
DEUTSCH Superseal 1.0 Connectors	26, 34 and 60	1.25 - 0.5 mm <sup>2</sup>	-40°C to +125°C	25 Cycles	100 Megohms	IP67	250 V AC/DC		◆	◆	◆				◆
<b>Sealed Wire-to-PCB</b>															
DEUTSCH Sealed PCB Enclosures and Headers	12, 14, 36 and 48	2.0 - 0.5 mm <sup>2</sup>	-55°C to +125°C			IP68			◆	◆	◆	◆	◆	◆	◆
<b>Sealed Wire-to-Device</b>															
LEAVYSEAL Connectors	15, 18, 21, 22, 26, 29, 31, 39, 46, 62, 92 and 120	6.0 - 0.2 mm <sup>2</sup>	-40°C to +140°C	20, 50 and 100 Cycles	500 VDC	IP69K	Up to 42 VDC		◆	◆	◆				
<b>Unsealed Wire-to-Board</b>															
Circular DIN Connectors	2, 3, 4, 5, 6 and 7	0.2 - 4.0 mm <sup>2</sup>	-40°C to +120°C	20 Cycles	1000 VDC	IPX7, IPX9k	1000 VAC		◆	◆	◆	◆		◆	◆
Unsealed AMP MCP Connectors	6 to 21, 25 and 36	0.75 - 4 mm <sup>2</sup>	-40°C to +120°C	10 and 50 Cycles	500 VDC	IP30	28 VDC								



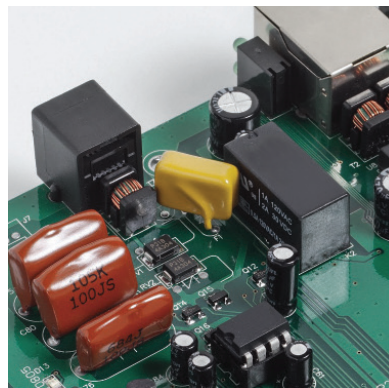
# Why Buy from the Specialist in Electronic Component Distribution?

Founded in 1971, TTI has steadily grown to become the world's leading interconnect, passive, electromechanical and discrete component distributor in the industry. The company was founded on the premise that passive component purchasing could be made more efficient by offering product specialization, customer-driven service, and proprietary supply chain solutions.



## Knowledgeable Product Experts

Specialization allows TTI product managers to provide much better product insight to support your manufacturing from design through production. TTI Specialists' commitment to our customers is key to our continued success.



## Broader and Deeper Inventories

TTI maintains extensive component inventories, stocking more than 500,000 part numbers in North America and over 850,000 globally – that's more interconnect, passive, electromechanical and discrete inventory available than from any other source.



## AIM - Advanced Inventory Management Platform

TTI's proprietary supply chain system is specifically designed for managing IP&E products and partnerships with premier manufacturers. This allows us to provide the BOM coverage necessary to deploy comprehensive solutions that reduce total cost of ownership and mitigate line down risk.

## Quality and Reliability

TTI is the first distributor to have all global warehouse locations ISO registered and currently are certified to ISO 9001 with AS9100C and ISO 14001 in North America, ISO 9001, EN 9100, ISO 14001 and EN 9120 in TTI Europe and ISO 9001 in TTI Asia.

**Year after year, customers rate our inventory availability, on-time delivery and accuracy among the very best in the industry – contact your local TTI Specialists via [sales@de.ttiinc.com](mailto:sales@de.ttiinc.com) and discover why.**

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