

CIRCULAR AND DIN CONNECTORS

FOR INDUSTRIAL & COMMERCIAL TRANSPORTATION

TERMINALS & CONNECTORS





WE GO TO EXTREMES TO MAKE SURE **EVERY CONNECTION COUNTS**

TE Connectivity (TE) Industrial & Commercial Transportation (ICT) is a reliable provider of solutions for harsh environmental conditions. With a focus on employee expertise and durable products, we deliver the solutions and support our customers can count on.

Years ago, tractors, construction equipment, trucks, and boats had simple electrical systems that might have included electrical starting and a basic lighting package. Today, ECUs, joysticks, fuel-efficient engines, LED lights, and CAN systems are standard equipment. The need to protect sensitive electrical systems from vibration, moisture, dust, dirt, salt, and airborne particles has never been greater. TE Industrial & Commercial Transportation is a leader in supporting today's increasingly complex and sophisticated equipment and applications.

Our comprehensive line of products includes an unparalleled portfolio of rugged sensors, terminals, connectors, relays, and hybrid electric mobility solutions. These solutions are designed to withstand the harshest environmental conditions and to help vehicles operate safer, cleaner, and smarter.

Our solutions adapt to virtually any harsh environment application, including:









Telematics Units



Wire-To-Wire Infotainment Coupling at Applications the Chassis



MARKETS WE SERVE



ON-HIGHWAY

OFF-HIGHWAY

RECREATIONAL TRANSPORTATION

ONLINE RESOURCES



TE SOLUTION CENTER

You can rely on TE Connectivity's helpful Solution Center team to provide answers to your general and technical questions.

Connect with our Solution Center staff at: **te.com/support**



Circular and DIN Connectors

TE Connectivity's (TE) circular and DIN connectors are a sealed, circular connector solution, using round contacts and offering flexibility for a wide range of applications. They are designed to meet the vibration, sealing, and longevity requirements imposed by demanding conditions found in the Industrial and Commercial vehicles market. Suitable for sealed wire-to-wire and wire-to-board applications, the system offers a wide range of accessories to extend usage throughout the vehicle.

Offering 2-7 and 31 cavity arrangements, with contacts sized 1.5 mm and 2.5 mm, rated at 30 A and 40 A respectively, IP67 and IP69K (with cover) immersion ratings, temperature ratings from -40°C to +120°C, mechanical polarization and secondary locking features, the circular and DIN connectors are designed for dependability. The line includes many connectors that meet ISO 15170/DIN 72585 standards, and are backed by TE's world-class system of field, application tooling, and engineering support, as well as localized manufacturing for excellent customer support, from design to production.



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BENEFITS

- Enhance design-in flexibility and usability throughout the vehicle with wire-to-wire, wire-to-board and panel-mount configurations, a full range of accessories and tooling, and multiple contact plating options
- Minimize mismating and mis-identification with color-coded keying and mechanical polarization
- Provide contact alignment and retention with an integrated secondary locking feature
- Dependable in extreme environments with IP67, IP69K ratings (with backshell) for high level of protection against mud and dust ingress, as well as high vibration support
- Backed by TE's localized world-class support, including local-for-local manufacturing to streamline ecological footprint, local technical support in major regions, and localized inventory availability

Bus

Special Vehicles



KEY INDUSTRIES

Agriculture







Construction



Mining

APPLICATIONS



Motor and

Gearboxes

Fuel Level

Sensors

Chassis

Wire-to-Wire





Actuators

ABS/EBS Brake Units

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Hydraulic Pump











Lighting

CIRCULAR AND DIN CONNECTORS

PRODUCT DOCUMENTATION

Additional documentation is available for assistance with circular and DIN products.

The following TE Connectivity document numbers may be helpful:

PRODUCT SPECIFICATIONS

108-18621	2 - 4 Position - following ISO 15170/DIN 72585
108-18622	5 - 7 Position
108-18742	31 Position special variant
108-3442 108-3428-1	Diesel fuel injector special variant

APPLICATION SPECIFICATIONS

114-18255	2 - 7 Position		
114-18449	31 Position special variant		
114-3219	Diesel fuel injector special variant		

PERFORMANCE SPECIFICATIONS

Current	Up to 40 amps
Temperature	Operating at temperatures -40°C to +120°C for plastic parts, short term up to +140°C defined in the standard ISO 15170/DIN 72585.
Durability	20 cycles, max. testing requirement in the standard ISO 15170/DIN 72585.
Insulation Resistance	No flash over or breakdown between every two contacts or between every contact and outer contour of the housing permitted at 1000 volts AC and 50 or 60 Hz for 60 seconds.
Immersion	No ingress of water is allowed, according to ISO 20653/DIN 40050-9, IPX7, IPX9K.
Vibration	According to standard ISO 15170/DIN 72585

MATERIAL SPECIFICATIONS

Flange Seal	Liquid silicon rubber
Housing	Glass filled PBT and PA

Circular and DIN Housings





DIMENSION

Group	Overall Length A	Overall Width B	Overall Width C	Overall Length D
1&2	1.22 (31.0)	1.29 (32.8)	1.73 (44.0)	1.34 (34.0)
3 - 31 Position	1.71 (43.4)	2.48 (63.0)	2.59 (65.8)	2.50 (63.6)
3 - Diesel Fuel 2 Position	1.36 (34.5)	0.85 (21.5)	-	-
3 - Diesel Fuel 4 Position	1.36 (34.5)	1.34 (34.0)		_

Dimensions are for reference only

GROUP 1 CONFIGURATIONS 2 to 4 Position (ISO 15170/DIN 72585)



2 Position Size 2.5 x 2



3 Position Size 2.5 x 3



4 Position Size 2.5 x 4

GROUP 2 CONFIGURATIONS 4 to 7 Position



4 Position

Size 1.5 x 4



5 Position Size 1.5 x 5





6 Position Size 1.5 x 6



7 Position Size 1.5 x 7

GROUP 3 CONFIGURATIONS Special variants



Diesel fuel injector connector



2 Position Size 2.5 x 2



4 Position Size 2.5 x 4

ORDERING INFORMATION RECEPTACLE HOUSING & TAB HOUSING



GROUP 1 HOUSING

Number of	Keying	Housing	Receptacle	Tab Housing			
Position	Туре	Color	Part Number		PCB Part Number	PCB Terminal Finish	
			1-967325-3				
	1	Black	1-968968-3*	1-967402-3	1394324-1	Tin	
			1-1719434-3**				
			2-967325-3				
2	2	Grey	2-968968-3*	2-967402-3	-	-	
			2-1719434-3)**				
	_		3-967325-3	3-967402-1 (with a blind plug in the fourth and third cavity)			
	3	Green	3-1719434-3**	3-967402-1 (with a blind plug in the fourth and third cavitiy)		-	
	4	Blue	4-967325-3	4-967402-1 (with a blind plug in the fourth and third cavity)	-	-	
			1-967325-2				
	1	Black	1-968968-2*	1-967402-2	-	-	
			1-1719434-2**				
7	2	Grey	2-967325-2	2-967402-2	1394324-4 (with ventilate disc)	Gold	
3			3-967325-2	3-967402-1 (with a blind plug in the fourth cavity)		-	
	3	Green	7 1710 474 0**		-		
			3-1719434-2**	3-967402-1 (with a blind plug in the fourth cavity)			
	4	Blue	4-967325-2	4-967402-1 (with a blind plug in the fourth cavity)	-		
			1-967325-1		1394324-3	Cald	
			1.060060.1*		(with ventilate disc)	Gold	
	1	Black	1-968968-1*	1-967402-1	1703780-1 (with ferrite disc)	Tin	
			1 1710 47 4 1**		1241598-1	Gold	
			1-1719434-1**		1394324-2 (with ventilate disc)	Tin	
4			Charles	2-967325-1	2.007402.1		
	2	Grey	2-1719434-1**	2-967402-1		-	
			3-967325-1	7.007400.1			
	3	Green	3-1719434-1**	3-967402-1	-	-	
			4-967325-1	4 007400 4	.1 – –		
	4	4 Blue	4-1719434-1**	4-967402-1		-	
* with second	dary locking	g					

with secondary locking

** feature 3 mm thick yellow seals that are assembled onto the housing.

In contrast, other parts contain 2.5 mm thick orange seals added via overmolding

ORDERING INFORMATION RECEPTACLE HOUSING & TAB HOUSING



GROUP 2 HOUSING

No. of Position	Keying Type	Housing Color	Receptacle Part Number	Tab Part Number
4	А	Black	967650-3 (with a blind plug in the fifth cavity)	1718230-4
5	А	Black	967650-3 1718230-3	
6	A Black		967650-2	1718230-2
	А	Black	967650-4	1718230-1 (with a blind plug in the first cavity)
	A Black 967650-1		967650-1	1718230-1
A		Blue	1-967650-1	1-1718230-1
7	В	Grey	2-967650-1	2-1718230-1
	С	Green	3-967650-1	3-1718230-1

31 POSITION

No. of	Housing	Receptacle	Tab
Position	Color	Part Number	Part Number
31	Black	1394081-1	

DIESEL FUEL INJECTOR



No. of Position	Housing Color	Receptacle Part Number
2	Black	1337245-3
4	Black	1337352-1

Circular and DIN Accessories

Backshells, protection caps, fixing rings, single wire seals and blind plugs are accessory items available for use with circular and DIN connectors. These accessories cover design requirements by assisting with mounting, providing additional protection, and offering increased aesthetics.

PROTECTION CAPS

Protection caps prevent dust and dirt ingression of the unmated connector.



Туре	Part Number	Description	No. of Position	Color
Protection Cap	1394277-1	For Pin housing without ring	2-7	Black
	1394277-2	For Pin housing with ring	2-7	Black
	185636-1	For Plug housing	2-4	Black

BACKSHELLS

Backshells help provide dust and ingress protection, and helps reduce wire strain.



Туре	Part Number	Description	No. of Position	Color
Backshell (with strain relief)	1534791-1	180° cable exit for isulation tubes ID12	2-7	Black
Backshell (with strain relief)	1534789-1	90° cable exit for isulation tubes ID12	2-7	Black
Backshell (with strain relief)	965786-1	180° cable exit for corrugated tube NW10	2-7	Black
Backshell (with strain relief)	965785-1	180° cable exit for corrugated tube NW8.5	2-7	Black
Backshell (with strain relief)	185792-1	180° cable exit for corrugated tube NW7.5	2-7	Black
Backshell (with strain relief)	1418917-1	180° cable exit for variable fixing	2-7	Black
Backshell	1418916-1	180° cable exit for variable fixing	2-7	Black
Backshell (with strain relief)	965784-1	180° cable exit for variable fixing	2-7	Black
Backshell (with strain relief)	965783-1	90° cable exit for corrugated tube NW10	2-7	Black
Backshell	965577-1	90° cable exit for corrugated tube NW8.5	2-7	Black
Backshell (with strain relief)	185793-1	90° cable exit for corrugated tube NW7.5	2-7	Black
Backshell (with strain relief)	1418919-1	90° cable exit for variable fixing	2-7	Black
Backshell (with strain relief)	1418918-1	90° cable exit for variable fixing	2-7	Black
Backshell (with strain relief)	965576-1	90° cable exit for variable fixing	2-7	Black
Backshell (with strain relief)	1394089-1	180° cable exit	31	Black
Backshell	1394816-1	45° cable exit	31	Black

for Industrial & Commercial Transportation

FIXING RINGS

Fixing rings are required to mount the tab through a panel.

Туре	Part Number	Description	No. of Position	Color
Fixing Ring	965687-1	-	2-7	Black

SINGLE WIRE SEALS

Wire seals are required without an integrated rear seal to maintain an environmental seal.

Туре	Part Number	Description	No. of Position	Color
	828904-1	For 1.5 DIA contacts	All	Light Blue
	828904-2	For 1.5 DIA contacts	All	Light Blue
Single Wire Seal	828905-1	For 1.5 DIA contacts	All	White
	828920-1	For 2.5 DIA contacts	All	Grey
	828921-1	For 2.5 DIA contacts	All	Yellow

BLIND PLUGS

Blind plugs close unused cavities within the connector housing.



Туре	Part Number	Description	No. of Position	Color
	828922-1	For 1.5 DIA and 2.5 DIA contacts	All	Natural
Blind Plug	828922-2	For 1.5 DIA and 2.5 DIA contacts	All	Green
	828986-1	For 2.5 DIA contacts	All	Brown

Circular and DIN Contacts

The circular and DIN connector series utilizes the common stamped & formed contact system. Contacts are available in strip form, in DIA 1.5 (capable of up to 30 A), and DIA 2.5 (capable of up to 40 A), and in tin, silver and gold contact plating. Handheld and automatic tooling are both available.

Contact	Size (mm)	Part Number Strip Form	Quantity	Wire Size (mm ²)	Insulation Diameter	Finish	With Single Wire Sealing
		929985-1	4000	0.2-0.4	1.15-1.6	Tin	Yes
		929986-1	4000	0.5-1.0	1.4-2.1	Tin	Yes
		929987-1	4000	1.0-2.5	1.9-3.0	Tin	Yes
		929988-1	4000	0.2-0.4	1.2-2.1	Tin	No
Receptacle		929989-1	4000	0.5-1.0	1.2-2.1	Tin	No
		929989-7	4000	0.5-1.0	1.2-2.1	Silver	No
	1.5	929990-1	3800	1.0-2.5	2.2-3.0	Tin	No
		1-929989-0	4000	0.5-1.0	1.2-2.1	blank	No
		1703012-1	4000	0.2-0.4	1.2-2.1	Tin	Yes
		1703013-1	3500	0.5-1.0	1.2-2.1	Tin	Yes
Tab		1703013-2	3500	0.5-1.0	1.2-2.1	Silver	Yes
		1703013-8	3500	0.5-1.0	1.2-2.1	Gold	Yes
		1703014-1	3500	1.0-2.5	2.2-3.0	Tin	Yes
		929970-1	3200	0.5-1.0	1.4-2.1	Tin	Yes
		929970-8	3000	0.5-1.0	1.4-2.1	Gold	Yes
		929971-1	3000	1.0-2.5	1.9-3.0	Tin	Yes
		929972-1	3000	2.5-4.0	2.7-3.6	Tin	Yes
Receptacle		929973-1	3000	0.2-0.4	1.2-2.1	Tin	No
		929974-7	3000	0.5-1.0	1.2-2.1	Silver	No
	0.5	1-929974-4	3000	0.5-1.0	1.2-2.1	Silver	No
	2.5	929975-1	3000	1.0-2.5	2.2-3.0	Tin	No
		929962-1 3500 0.2-0	0.2-0.4	1.5-1.6	Tin	No	
		929963-1	3500	0.5-1.0	1.4-2.1	Tin	No
T . 1		929965-1	2500	2.5-4.0	2.7-3.6	Tin	No
Tab		929967-1	3000	0.5-1.0	1.2-2.1	Tin	Yes
		929967-8	3000	0.5-1.0	1.2-2.1	Gold	Yes
		1-929967-0	3000	0.5-1.0	1.2-2.1	Gold	Yes

CIRCULAR CONTACT SYSTEM

The circular and DIN connectors commonly use the 2.5 mm round, two-piece stamped & formed contact system.

PRODUCT FEATURES

- Round, two-piece stamped & formed contact system
- Contact sizes DIA 1.5 (up to 30 A), 2.5 (up to 40 A)
- Tin, silver and gold contact plating options
- Strip form
- Hand tool and automatic tooling options



Circular and DIN Tooling

Tools are specific to the contact style. To create a proper crimp and achieve the highest performance specifications, contacts must be crimped with the recommended tooling.

HAND TOOLS



Contact Part Number	Hand Crimp Tool Part Number
929985-1	2-1579024-4
929962-1	2-15/9024-4
929963-1	
929986-1	2-1579024-5
929970-1	2-1579024-5
929970-8	

AUTOMATED TOOLING



OCEAN Side Feed Applicator

Contact Part Number	Applicator Part Number	Applicator Type					
929989-1							
1703013-1							
929967-1							
1-929974-4							
929974-4							
1-929967-0	2151139						
929974-7							
929967-8							
1703013-2							
1703013-8							
929989-7							
929975-1							
929990-1	2151345						
1703014-1							
929973-1		OCEAN					
1703012-1	2151732						
929988-1							
929963-1							
929986-1	2266254						
929970-1	2200234						
929970-8							
929971-1	2266503						
929987-1	2200303						
929985-1	2836097						
929962-1	2030097						
929963-1							
929986-1	2837603						
929970-1	203/003						
929970-8							
929965-1	1426425	HDI					
929972-1	1420423	ושה					

Note: Applicators with additional feed styles are available, contact your representative

EXTRACTION TOOL

Contact Strip Part Number	Extraction Tool Part Number
929975-1	
929967-1	
929963-1	
929971-1	
929970-1	
1-929974-4	
929974-4	
1-929967-0	1-1579007-8
929974-7	
929973-1	
929965-1	
929962-1	
929967-8	
929972-1	
929970-8	
1703013-1	
1703014-1	
1703013-2	3-1579007-7
1703013-8	
1703012-1	

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٠	٠	۰	۰	٠	۰	•	۰	٠	۰	٠	٠	٠	٠	•	۰	٠	۰	٠	٠	٠	۰	
•	•	•	•	٠	٠	٠	•	•	٠	٠	٠	٠	٠	٠	•	•	٠	٠	•	•	•	0
•	•			۰				۰	•	•	•	۰	۰			•	•	•	•	•		
•	•		•	۰	•		•	•	•	•	•		٠		•	•	•	•	•	•		
•											0											
•				•							•	•						0		•	•	
•	•			•								•				•				•		
۰	۰	۰	۰	۰	۰	٥	۰	۰	۰	۰	۰	۰	۰	٥	۰	۰	۰	۰	۰	۰	۰	۰
																					0	
۰	•		۰				٥														٥	
۰	۰		۰	۰						0								۰	۰	۰		•
٠	٠	۰	۰				۰													٠		0
۰	٠	۰	۰	۰	۰	0	۰	۰	۰	۰	۰	۰	۰	0	۰	۰	۰	۰	٠	٠	۰	0
•	٠	0	0	۰	0	•	0	۰	۰		۰	۰	۰	0	0	0	۰		٠	۰	0	۰
۰	٠		۰	۰	۰	0	۰	۰	۰	۰	۰	۰	۰	0	۰	۰	۰	۰	٠	۰	۰	0
۰	٠	0	0	۰	0	0	۰	0	0	0	۰	۰	۰	0	0	۰	0	0	0	٥	0	0
٠	٠	0	0	٠	۰	0	٠	٠	0	0	٠	٠	٠	0	٠	۰	0	0	٠	٠	٠	0
۰	٠	۰	۰	٠	۰	•	۰	۰	٠	٠	٠	٠	٠	•	۰	٠	٠	٠	٠	٠	۰	0

NOTES

				٠	•	٠	٠	٠	٠	٠	٠	٠	٠	0	٠	٠	۰	0	0	٠	٠	٠
0	0	0	٠	٠	٠	۰	٠	٠	۰	۰	٠	۰	۰	0	0	٠	0	0	۰	۰	٠	٠
0	•	0	٠	٠	٠	۰	٠	٠	۰		٠	۰	۰	0	0	٠		0	۰	۰	٠	•
۰	۰	0	٠	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	0	•	٠	۰		٠	۰	٠	0
۰	۰	0	٠	٠	٠	٠	٠	٠	٠	۰	٠	٠	۰	0	۰	٠	۰	0	۰	٠	٠	•
۰	0	0	٠	٠	٠	۰	٠	٠	۰	۰	٠	۰	۰	0	۰	٠	0	0	۰	۰	٠	٠
0	0	0	۰	۰	۰	۰	۰	۰	۰	•	٠	۰	۰	0	0	۰	0	0	0	۰	۰	
0	0	0	٠	٠	۰	۰	٠	٠	۰	۰	•	۰	۰	0	0	•	0	0	۰	۰	۰	•
۰	0	0	٠	•	٠	٠	٠	٠	٠	٠	٠	٠	۰	0	0	•	0	0	۰	۰	٠	•
۰	•	0	٠	٠	٠	٠	٠	٠	۰	٠	٠	٠	۰	0	0	٠	0	0	0	۰	٠	•
0	0	0	٠	٠	٠	٠	•	۰	•		٠	۰	۰	0	0	٠	0	0	0	0	٠	0
0	0	0	٠	٠	٠	٠	٠	٠	0	۰	٠	۰	۰	0	0	٠	0	0	0	٥	٠	٠
۰	0	0	٠	٠	۰	۰	٠	٠	٠	۰	۰	۰	۰	0	0	٠	0	0	٥	•	۰	٠
۰	0	0	٠	٠	٠	۰	٠	٠	۰	۰	٠	۰	۰	0	•	٠	0	0	۰	۰	٠	٠
0	0	0		۰	۰	•	۰	۰	0		۰	۰	۰	0	0	٠	0	0	0	٥	۰	•
0	0	0	٠	٠	٠	٠	٠	٠	0	۰	٠	•	۰	0	0	٠	0	0	0	٥	•	٠
۰	0	0	٠	٠	٠	۰	٠	٠	٠	۰	٠	٠	٠	0	۰	٠	0	۰	۰	۰	٠	٠
۰	•	0	٠	٠	٠	٠	٠	۰	٠	۰	۰	۰	۰	0	۰	•	•	0	۰	٥	٠	
۰	0	0		٠	٠	٠	٠	۰	0	٠	0	۰	0	0		0	0	0	•	0	٠	
٠	٠	0	٠	•	•	٠	٠	٠	٠	٠	٠	٠	٠	0	٠	٠	٠		٠	٠	٠	0
٠	٠	0	٠	•	٠	٠	٠	٠	٠	٠	٠	٠	•	0	٠	٠	٠	0	٠	٠	٠	•
۰	0	0	٠	٠	٠	•	٠	۰	٠	۰	0	۰	٥	0	0	۰	0	0	0	0	٠	٠
۰	0	0		٠	۰	۰	٠	۰		۰	0	۰	0	0	0	0	0	0	0	٥	۰	•
٠	٠	0	٠	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	0	٠	٠	٠		٠	٠	٠	•
۰	0	0	٠	٠	٠	٠	٠	٠	٠	۰	٠	٠	۰	0	۰	٠	0	0	0	•	٠	٠
۰	٠	0	٠	٠	٠	•	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	٠	•	٠	۰	٠	٠
۰	۰	0	٠	٠	٠	٠	٠	٠	0	۰	۰	۰	۰	0	•	۰	۰	•	•	۰	٠	0
٠	٠	0	٠	٠	٠	٠	٠	٠	٠	0	•	٠	0	0	٠	٠	٠	0	٠	٠	٠	٠
٠	٠	0	٠	٠	٠	٠	٠	٠	٠	0	0	٠	0	0	٠	٠	٠	0	٠	٠	٠	٠
0	0	0	٠	٠	٠	٠	٠	٠	٠	0	۰	٠	0	0	0	۰	0	0	0	0	۰	

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