

NTSEAL SEALED WIRE-TO-WIRE CONNECTORS

For Industrial & Commercial Transportation

Terminals And 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:



Motors and
Gearboxes



ABS/EBS
Brake Units



Telematics
Units



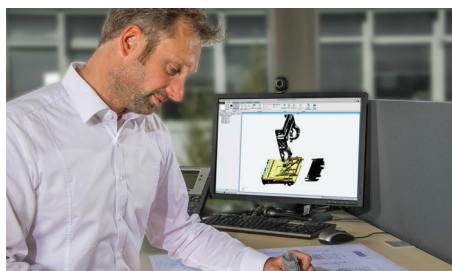
Sensors



Wire-To-Wire
Coupling at
the Chassis



Infotainment
Applications



**2,500+
EMPLOYEES**



**10,000+
CUSTOMERS**



**20,000+
DIFFERENT PARTS**

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NTSEAL SEALED WIRE-TO-WIRE CONNECTORS

Providing robust wire-to-wire connectivity in a compact footprint, TE Connectivity's (TE) family of innovative NTSEAL sealed connectors utilize the proven DEUTSCH common contact system for serviceable applications in harsh environments. The rugged connector system is available in 18, 20, 26, 36, 38 and 48 positions and is IP67, IP68 and IP6K9K-rated (with backshells) for use in agricultural vehicles, buses, construction equipment, trucks, and other applications where field proven environmental protection is required.

Integrated TPA, CPA, and tool-free panel installation help eliminate the need for additional components or specific tools, allowing for quick and easy harness assembly, installation and repair. This hybrid connector system allows for signal and power together in one connector by using size 12, 16 and size 20 contacts. This is coupled with a small footprint to enable flexibility for the harness designer.

The 26, 36, 38 and 48 position connector introduces an improved design with an integrated locking lever which facilitates mating operation. This locking mechanism enhances user experience by speeding up assembly and providing proper connector mating.



NTSEAL Sealed Wire-to-Wire Connectors

FEATURES & BENEFITS

High Density

- Compact, high density footprint in 18, 20, 26, 36, 38 and 48 position options

Ease-of-Use

- Seamless mating operation with integrated lever
- Prevents mis-mating of connectors with four coding options and colors
- Optimal flexibility with wire-to-wire inline and flange-mount options with tool-free panel installation
- Uses robust and field proven TE accessories like backshells and mounting clips

The Trusted & Reliable Choice

- Utilizes the high-performance DEUTSCH size 12, 16 and 20 common contact system
- Achieves IP67, IP68 and IP6K9K sealing levels (with backshell)
- Designed for extreme temperatures (-40°C to 125°C) and engine-level vibrations
- Terminal Position Assurance (TPA) confirms proper contact installation
- Connector Position Assurance (CPA) confirms correct assembly and prevents accidental unlocking

KEY INDUSTRIES



Truck



Construction



Agriculture



Specialty
Vehicles



Bus



Power
Sports



Recreational



Marine



Lift Truck

APPLICATIONS



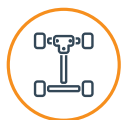
Wire-to-Wire



Panel/
Bulkhead
Mount



Engine
& Cabin



Chassis



Automation



After-
Treatment

NTSEAL Sealed Wire-To-Wire Connectors
for Industrial & Commercial Transportation

PERFORMANCE SPECIFICATIONS

Contact/Terminal System	DEUTSCH size 20, size 16, size 12
Protection	IP67, IP68 and IP6K9K (with backshell)
Operating Temperature	-40°C to 125°C
Contact Operating Current	7.5 A / 13 A / 25A (at 125°C)
Operating Voltage	Up to ≤ 60V
Material (Housing/CPA/TPA)	PBT
Standards & Specifications	Product Specification: 108-101662 Application Specification: 114-32209

CONNECTOR POSITION SIZES

Connector	Terminals	Size of housing
18 Position	Size 16 (x18)	Small
20 Position	Size 20 (x16), size 16 (x4)	Small
26 Position	Size 16 (26)	Medium
26 Position	Size 20 (x18), size 16 (x4), size 12 (x4)	Medium
36 Position	Size 20 (x26), size 16 (x4), size 12 (x6)	Large
38 Position	Size 16 (x38)	Large
48 Position	Size 20 (x40), size 16 (x8)	Large

NTSEAL COLOR CODING

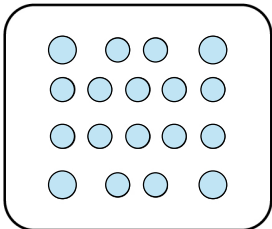
Help prevent mis-mating of connectors with four coding options and colors



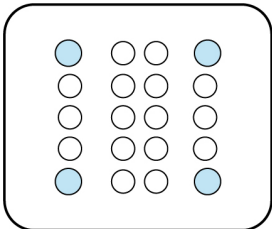
NTSEAL CONNECTOR PIN CONFIGURATIONS

Small Size: 18, 20 Positions

18 posContact
Arrangement:
size 16 (x18)



20 pos, Contact
Arrangement: size 20 (x16),
size 16 (x4) (blue)

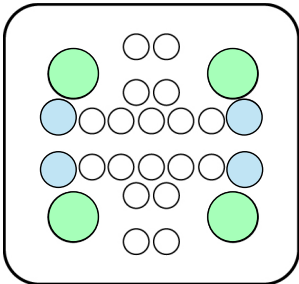


Contact Legend

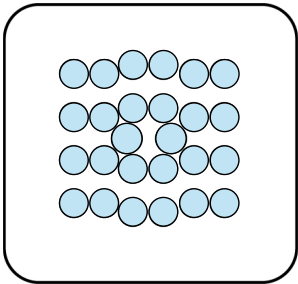
- Size 20
- Size 16
- Size 12

Medium Size: 26 Position

26 Pos, Contact Arrangement:
size 20 (x18), size 16 (x4) (blue),
size 12 (x4) (green)

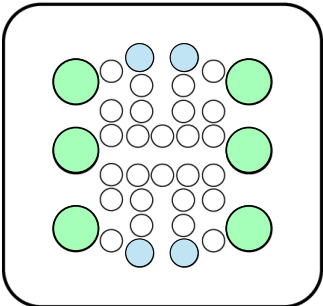


26 Pos, Contact
Arrangement:
size 16 (x18)

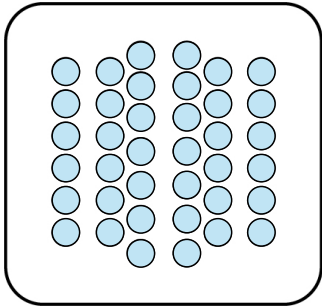


Large Size: 36, 38, 48 Positions

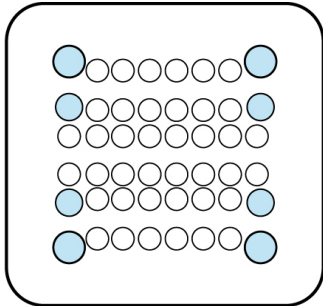
36 Pos, Contact Arrangement:
size 20 (x26), size 16 (x4) (blue),
size 12 (x6) (green)



38 Pos,
Contact Arrangement:
size 16 (x38)



48 Pos, Contact Arrange-
ment: size 20 (x40), size
16 (x8) (blue)



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NTSEAL 18 POSITION CONNECTORS

Contact Arrangement: size 16 (x18)

Plugs (Socket Housings)

With CPA			
	Coding	Color	Part Number
	Code A	Black	2490856-1
	Code B	Grey	2490856 -2
	Code C	Green	2490856 -3
	Code D	Blue	2490856-4

Receptacles (Pin Housings)

With Flange (for mounting rings)				Without Flange			
	Coding	Color	Part Number		Coding	Color	Part Number
	Code A	Black	1-2490990-1		Code A	Black	2490990-1
	Code B	Grey	1-2490990-2		Code B	Grey	2490990-2
	Code C	Green	1-2490990-3		Code C	Green	2490990-3
	Code D	Blue	1-2490990-4		Code D	Blue	2490990-4
With Flange (for Screws - M5)							
	Coding	Color	Part Number				
	Code A	Black	2-2490990-1				
	Code B	Grey	2-2490990-2				
	Code C	Green	2-2490990-3				
	Code D	Blue	2-2490990-4				

NTSEAL 20 POSITION CONNECTORS

Contact Arrangement: size 20 (x16), size 16 (x4)

Receptacles (Pin Housings)

With CPA				Without CPA			
	Coding	Color	Part Number		Coding	Color	Part Number
	Code A	Black	2350890-1		Code A	Black	1-2350890-1
	Code B	Grey	2350890-2		Code B	Grey	1-2350890-2
	Code C	Green	2350890-3		Code C	Green	1-2350890-3
	Code D	Blue	2350890-4		Code D	Blue	1-2350890-4

Receptacles (Pin Housings)

With Flange (Cushion)				Without Flange			
	Coding	Color	Part Number		Coding	Color	Part Number
	Code A	Black	1-2350891-1		Code A	Black	2350891-1
	Code B	Grey	1-2350891-2		Code B	Grey	2350891-2
	Code C	Green	1-2350891-3		Code C	Green	2350891-3
	Code D	Blue	1-2350891-4		Code D	Blue	2350891-4
With Flange (Facial Seal)							
	Coding	Color	Part Number				
	Code A	Black	2-2350891-1				
	Code B	Grey	2-2350891-2				
	Code C	Green	2-2350891-3				
	Code D	Blue	2-2350891-4				

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NTSEAL 26 POSITION CONNECTORS

Contact Arrangement: size 20 (x18), size 16 (x4), size 12 (x4)

Plugs (Socket Housings)

With CPA			
	Coding	Color	Part Number
	Code A	Black	2405007-1
	Code B	Grey	2405007-2
	Code C	Green	2405007-3
	Code D	Blue	2405007-4

Receptacles (Pin Housings)

With Flange				Without Flange			
	Coding	Color	Part Number		Coding	Color	Part Number
	Code A	Black	1-2405028-1		Code A	Black	2405028-1
	Code B	Grey	1-2405028-2		Code B	Grey	2405028-2
	Code C	Green	1-2405028-3		Code C	Green	2405028-3
	Code D	Blue	1-2405028-4		Code D	Blue	2405028-4

NTSEAL 26 POSITION CONNECTORS

Contact Arrangement: size 16 (x26)

Plugs (Socket Housings)

With CPA			
	Coding	Color	Part Number
	Code A	Black	2490959-1
	Code B	Grey	2490959-2
	Code C	Green	2490959-3
	Code D	Blue	2490959-4

Receptacles (Pin Housings)

With Flange				Without Flange			
	Coding	Color	Part Number		Coding	Color	Part Number
	Code A	Black	1-2490960-1		Code A	Black	2490960-1
	Code B	Grey	1-2490960-2		Code B	Grey	2490960-2
	Code C	Green	1-2490960-3		Code C	Green	2490960-3
	Code D	Blue	1-2490960-4		Code D	Blue	2490960-4

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NTSEAL 36 POSITION CONNECTORS

Contact Arrangement: size 20 (x26), size 16 (x4), size 12 (x6)

Plugs (Socket Housings)

With CPA			
	Coding	Color	Part Number
	Code A	Black	2445859-1
	Code B	Grey	2445859-2
	Code C	Green	2445859-3
	Code D	Blue	2445859-4

Receptacles (Pin Housings)

With Flange				Without Flange			
	Coding	Color	Part Number		Coding	Color	Part Number
	Code A	Black	1-2445860-1		Code A	Black	2445860-1
	Code B	Grey	1-2445860-2		Code B	Grey	2445860-2
	Code C	Green	1-2445860-3		Code C	Green	2445860-3
	Code D	Blue	1-2445860-4		Code D	Blue	2445860-4

NTSEAL 38 POSITION CONNECTORS

Contact Arrangement: size 16 (x38)

Plugs (Socket Housings)

With CPA			
	Coding	Color	Part Number
	Code A	Black	2455359-1
	Code B	Grey	2455359-2
	Code C	Green	2455359-3
	Code D	Blue	2455359-4

Receptacles (Pin Housings)

With Flange				Without Flange			
	Coding	Color	Part Number		Coding	Color	Part Number
	Code A	Black	1-2455360-1		Code A	Black	2455360-1
	Code B	Grey	1-2455360-2		Code B	Grey	2455360-2
	Code C	Green	1-2455360-3		Code C	Green	2455360-3
	Code D	Blue	1-2455360-4		Code D	Blue	2455360-4

NTSEAL 48 POSITION CONNECTORS

Contact Arrangement: size 20 (x40), size 16 (x8)

Plugs (Socket Housings)

With CPA			
	Coding	Color	Part Number
	Code A	Black	2366494-1
	Code B	Grey	2366494-2
	Code C	Green	2366494-3
	Code D	Blue	2366494-4

Receptacles (Pin Housings)

With Flange				Without Flange			
	Coding	Color	Part Number		Coding	Color	Part Number
	Code A	Black	2-2366509-1		Code A	Black	2366509-1
	Code B	Grey	2-2366509-2		Code B	Grey	2366509-2
	Code C	Green	2-2366509-3		Code C	Green	2366509-3
	Code D	Blue	2-2366509-4		Code D	Blue	2366509-4

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ACCESSORIES

Sealing Plugs

Sealing Plugs	For Position	Color	Pin Part Number
Size 12	26 & 36 Position	Purple	2428520-1
Size 16	18 & 20 Position	Grey	2373921-1
	26 & 36 & 38 & 48 Position	Blue	2373921-3
Size 20	20 Position	Yellow	2373921-2
	26 & 36 & 48 Position	Green	2373921-4

Mounting Clips (for Housings Without Flange)

	For Position	Color	Pin Part Number
	Bracket Hole Size $\varnothing 7.0$ mm Panel Thickness: 1-2 mm	Black	2355806-1
	Panel Thickness: 2.0-4.0 mm Through Hole / $\varnothing 6.35$ mm above 2.0-6.0 mm Threaded M8	Black	2357922-1

	Mounting Direction	Color/Material	Hole O.D. (in [mm])	Part Number
	Straight	Stainless steel	0.433 [11.0]	1027-003-1200
	Straight	Stainless steel	0.512 [13.0]	1027-005-1200
	Straight	Steel w/zinc plating	0.512 [13.0]	027-004-1200
	Straight	Grey plastic	0.200 [5.08]	1011-026-0205
	Straight	Black plastic	-	1011-030-0205
	Straight	Black plastic	-	1011-310-0205

Sealed Caps

Connector Size	Cap for plug	Cap for receptacle
SM	2496147-1	2496148-1 2496148-2 (flange)
MD	2496119-1	2496145-1
LG	2496107-1	2496100-1



NTSEAL Sealed Wire-To-Wire Connectors

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ACCESSORIES

Backshells

Tubing Size	Adaptative Parameters	Color	Part Number	Size of connector
NW17	90° Adapter (to be used on 180° backshell)	Black	2357921-1	SM
	180° Receptacle	Black	2357302-1	
	180° Tab	Black	2357302-2	
NW19	180° Backshell	Black	2428519-1	MD
	90° Backshell	Black	2428518-1	
NW26	180° Backshell	Black	2378521-1	LG
	90° Backshell	Black	2378527-1	



180° Outlet for Housing w/ CPA



90° Outlet for Housing w/ CPA



180° Outlet



90° Outlet

Mounting Rings (for Flange Housing)

Panel Thickness (mm)	Color	Part Number	Size
1.5	Yellow	2350943-1 1-2350943-1*	18, 20, 26
3	Grey	2350943-2 1-2350943-2*	
3.5	Green	2350943-3	
4	Blue	2350943-4	
1.5	Yellow	2366517-1	36, 38, 48
3	Grey	2366517-2	
3.5	Green	2366517-3	
4	Blue	2366517-4	

* Use for connector 1-2490960-*



Mounting Rings (JIS)

Panel Thickness (mm)	Color	Part Number	Size
2.3	Beige	2541868-1	18, 20, 26
3.2	Black	2541868-2	
2.3	Beige	2559719-1	36, 38, 48
3.2	Black	2559719-2	

Used on pin housing with flange, applicable to Japanese-Industry-Standard panel thickness measures.

NTSEAL Sealed Wire-To-Wire Connectors

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CONTACTS

Wire Sealing Range

	Size 20	Size 16	Size 12
Connector	Insu. Diam (mm ²)		
18 Pos	-	1.7-3.0	-
20 Pos	1.4-2.4	1.4-3.0	-
26 Pos	-	1.7-3.0	-
26 Pos	1.4-2.4	1.7-3.0	3.4-4.3
36 Pos	1.4-2.4	1.7-3.0	3.4-4.3
38 Pos	-	1.7-3.0	-
48 Pos	1.4-2.4	1.9-3.0	-

Plugs (Socket Housings)

Contact Series	Stamped & Formed Contacts	Socket Part Number	Pin Part Number
DEUTSCH Size 12 Contact	2.0-4.0	1062-12-01**	1060-12-01**
	4.0-6.0	1062-12-02**	1060-12-02**
DEUTSCH Size 16 Contact	0.5-1.0	1062-16-06**	1060-16-06**
	1.0-2.0	1062-16-01**	1060-16-01**
	1.0-2.5	1062-16-12**	1060-16-12**
DEUTSCH Size 20 Contact	0.5-1.5	1062-20-01**	1060-20-01**

**Additional stamped terminals available, refer to [Stamped and Formed Contact Data Sheet](#) for additional options

Solid Contacts

Contact Series	Wire Size (mm ²)	Socket Part Number	Pin Part Number
DEUTSCH Size 12 Contact	2.0-3.0	0462-203-12**	0460-204-12**
DEUTSCH Size 16 Contact	0.5-1.5	0462-201-16**	0460-202-16**
DEUTSCH Size 20 Contact	0.5	0462-201-20**	0460-202-20**
	0.75-1.5	0462-005-20**	0460-010-20**

ABOUT TE CONNECTIVITY

TE Connectivity is a global industrial technology leader creating a safer, sustainable, productive, and connected future. Our broad range of connectivity and sensor solutions enable the distribution of power, signal and data to advance next-generation transportation, renewable energy, automated factories, data centers, medical technology and more. With more than 85,000 employees, including 8,000 engineers, working alongside customers in approximately 140 countries, TE ensures that EVERY CONNECTION COUNTS. Learn more at www.te.com and on LinkedIn, Facebook, WeChat, Instagram and X (formerly Twitter).

CONNECT WITH US

We make it easy to connect with our experts and are ready to provide all the support you need. For additional information or product assistance, please contact your field representative or our customer service department. Additional information is also available on the website [**te.com/ict**](http://te.com/ict).

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