

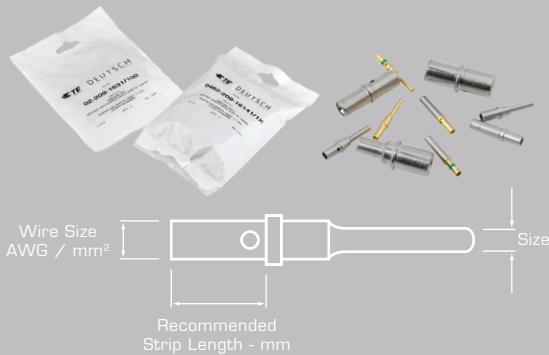
- Superior material selection combined with mechanical CAD/CAM design.
- Exceed demands of today's industrial electrical systems.
- Exceptional durability, performance, corrosion and oxidation resistance.
- Made from high quality copper alloys, finished with nickel, tin or gold plating.
- Solder is not recommended, eliminating potential flux corrosion.
- No retention tangs required, eliminating potential contact damage.
- Pack quantities of varying sizes available.



Material : Copper Alloy
Plating : Nickel or Gold

Bulk packaged quantities calculated by weight, a +/- 2% variation acceptable.

Solid Contacts



DEUTSCH solid contacts are designed for use with larger wire size and heavy duty applications. Solid contacts are manufactured using a cold heading process with solid copper alloy wire and are available with either a nickel or gold plating finish.

Solid contacts terminate wire from 6 AWG to 20 AWG (13 - 0.5mm²) and are available in 5 sizes each of the pin and socket. The applicable contact is determined by the size of the conductor only.

Green & Purple Band Contacts

Size 16 and size 20 solid contacts are both available to suit two wire sizes.

Contacts with the **green** band marking accept the larger wire size of 14 AWG (1.0 - 2.0mm²).

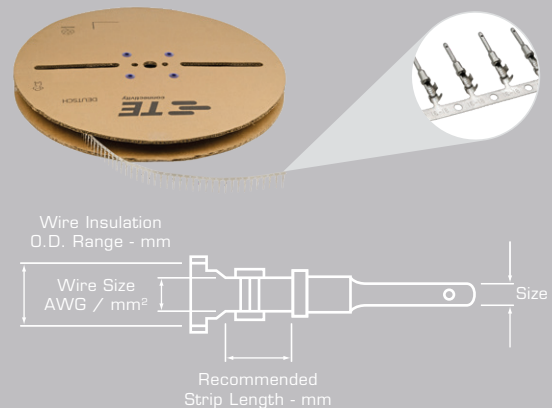
Contacts with the **purple** band marking accept the larger wire size of 16-18 AWG (1.0 - 0.75mm²).



Solid style contacts are sold in bulk.

Bulk packaged quantities calculated by weight, a +/- 2% variation acceptable.

Stamped & Formed Contacts (F-Crimp)



DEUTSCH stamped & formed contacts are designed for use where wire termination costs are of primary concern without sacrificing reliability of electrical circuits. The stamped & formed contacts are made on a precision stamping machine using flat strip stock, then a durable and corrosion proof nickel, or optional gold plating is applied.

The stamped & formed style contacts terminate wire from 10 AWG to 22 AWG (6.0 - 0.35mm²) and are available in multiple sizes to accommodate a wide range of wire insulation.

The specific contact is determined by the outside diameter of wire insulation and conductor size.

Stamped & formed contacts are available as cut strips or in pack quantities including complete reels.

DEUTSCH



Contacts – Solid

Size	Pin	Part No.		Plating	Wire Size		Recommended Strip Length (mm)	Max. Rated A @ 125°C Continuous
		Socket			AWG	mm ²		
20		0460-202-2031	0462-201-2031	Gold	20	0.2 – 0.5	4.0 – 5.5	7.5
		0460-202-20141	0462-201-20141	Nickel				
20 Purple Band		0460-010-2031	0462-005-2031	Gold	16 – 18	0.75 – 1.0	3.9 – 5.5	7.5
		0460-010-20141 (NEW)	0462-005-20141 (NEW)	Nickel				
16		0460-202-1631	0462-201-1631	Gold	16 – 20	0.5 – 1.0	6.4 – 8.0	13
		0460-202-16141	0462-201-16141	Nickel				
16 Green Band		0460-215-1631	0462-209-1631	Gold	14	1.0 – 2.0	6.4 – 8.0	13
		0460-215-16141	0462-209-16141	Nickel				
12		0460-220-1231	0462-210-1231	Gold	12 – 14	2.0 – 3.0	5.6 – 7.2	25
		0460-204-12141	0462-203-12141	Nickel				
8		0460-204-08141	0462-203-08141	Nickel	8 – 10	5.0 – 8.0	11.0 – 12.5	60
4		0460-204-0490	0462-203-04141	Nickel	6	13.0	11.0 – 12.5	100

Pack Quantities – Contacts – Solid – Pins (NEW)

Size	Part No.	Plating	25	50	100	400	500	800	1000	2.5K	5K	10K
20	0460-202-2031	Gold	●	●	●	—	●	—	●	—	—	●
	0460-202-20141	Nickel	●	●	●	—	●	—	●	—	—	●
20 Purple Band	0460-010-2031	Gold	—	●	●	—	—	—	—	—	—	—
	0460-010-20141 (NEW)	Nickel	●	●	●	—	●	—	—	—	—	—
16	0460-202-1631	Gold	●	●	●	—	●	—	—	—	●	—
	0460-202-16141	Nickel	●	●	●	—	●	—	●	●	—	—
16 Green Band	0460-215-1631	Gold	●	●	●	—	●	—	—	●	—	—
	0460-215-16141	Nickel	●	●	●	—	●	—	●	—	●	—
12	0460-220-1231	Gold	●	●	●	—	●	—	—	●	—	—
	0460-204-12141	Nickel	●	●	●	—	●	—	●	●	—	—
8	0460-204-08141	Nickel	●	—	●	—	—	●	—	—	—	—
4	0460-204-0490	Nickel	—	—	●	●	—	—	—	—	—	—

Pack Quantities – Contacts – Solid – Sockets (NEW)

Size	Part No.	Plating	25	50	100	400	500	750	1000	2.5K	5K	10K
20	0462-201-2031	Gold	●	●	●	—	●	—	●	—	—	●
	0462-201-20141	Nickel	●	●	●	—	●	—	●	—	—	●
20 Purple Band	0462-005-2031	Gold	—	●	●	—	—	—	—	—	—	—
	0462-005-20141 (NEW)	Nickel	●	●	●	—	●	—	—	—	—	—
16	0462-201-1631	Gold	●	●	●	—	●	—	—	●	—	—
	0462-201-16141	Nickel	●	●	●	—	●	—	●	—	●	—
16 Green Band	0462-209-1631	Gold	●	●	●	—	●	—	—	—	●	—
	0462-209-16141	Nickel	●	●	●	—	●	—	●	—	●	—
12	0462-210-1231	Gold	●	●	●	—	—	—	—	●	—	—
	0462-203-12141	Nickel	●	●	●	—	●	—	●	●	—	—
8	0462-203-08141	Nickel	●	—	●	—	—	●	—	—	—	—
4	0462-203-04141	Nickel	—	—	●	●	—	—	—	—	—	—



Contacts – Stamped & Formed (F-Crimp)

Size	Part No.		Plating	Wire Size		Wire Insulation O.D. Range (mm)	Recommended Strip Length (mm)	Max. Rated A @ 125°C Continuous
	Pin	Socket		AWG	mm ²			
20	1060-20-0122	1062-20-0122	Nickel	16 – 22	0.25 – 1.5	1.91 – 3.15	4.0 – 5.0	7.5
	1060-20-0144	1062-20-0144	Gold					
16	1060-14-0122	1062-14-0122	Nickel	14 – 18	0.75 – 2.0	2.41 – 3.81	3.8 – 5.0	13
	1060-14-0144	—	Gold	14 – 18	0.75 – 2.0	2.41 – 3.81	3.8 – 5.0	
	1060-16-0122	1062-16-0122	Nickel	14 – 18	0.75 – 2.0	1.91 – 3.55	3.8 – 5.0	
	—	1062-16-0144	Gold	14 – 18	0.75 – 2.0	1.91 – 3.55	3.8 – 5.0	
	1060-16-0622	1062-16-0622	Nickel	16 – 20	0.5 – 1.0	1.40 – 2.54	3.8 – 5.0	
	—	1062-16-1222	Nickel	12 – 16	1.0 – 2.5	1.91 – 3.55	4.5 – 5.8	
12	1060-12-0222	1062-12-0222	Nickel	10 – 12	4.0 – 6.0	3.56 – 5.18	5.8 – 7.0	25
	1060-12-0166	1062-12-0166	Tin/Nickel	12 – 14	2.0 – 4.0	2.87 – 4.47	5.7 – 6.9	



Pack Quantities – Contacts – Stamped & Formed NEW

Size	Plating	Part No.	Pins		Sockets	
			100	Reel Qty	100	Reel Qty
20	Nickel	1060-20-0122	●	4000	1062-20-0122	● 4000
16	Nickel	1060-16-0122	●	4000	1062-16-0122	● 4000
	Nickel	1060-14-0122	●	3200	1062-14-0122	● 4000
12	Nickel	1060-12-0222	●	2000	1062-12-0222	● 2000





Sealing Plugs

Part No.	Contact Size	Wire Gauge Range (AWG)	Material	Pack Quantities			
				50	100	500	1K
114019	4	6	Rubber	—	—	—	—
114018	8	8–10	Plastic	●	—	—	—
114017	12–16	12–20	Plastic	—	●	●	●
0413-204-2005	20	20	Plastic	—	●	●	—

Contact Insertion

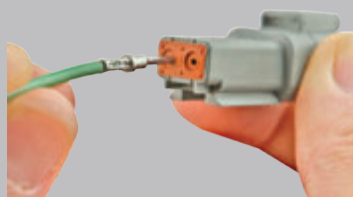
Step 1

Hold crimped contact approximately 25mm behind the contact barrel.



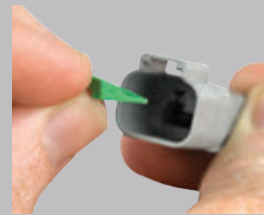
Step 2

Hold connector with rear grommet toward the contact. Push contact into connector grommet until a click is felt. Gently pull back to confirm contact is locked in place.



Step 3

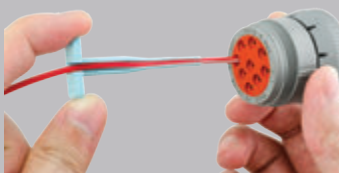
Once all contacts are in place, insert wedgelock. The wedgelock will snap into place securing the contacts.



Contact Removal

Step 1

With the rear insert toward you, snap appropriate size removal tool over the wire of contact to be removed.



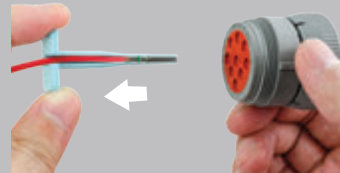
Step 2

Slide tool along the wire into the insert cavity until it engages the contact and resistance is felt.



Step 3

Pull contact wire assembly and removal tool out of connector. Do not twist the removal tool when inside the connector.



For more information on Removal Tools see page 88.

Contact Performance Specifications

Current Rating @ 125°C Continuous

Size	Maximum Current (A)
20	7.5
16	13
12	25
8	60
4	100

Contact Millivolt Drop

Size	Test Current (A)	Solid (mV)	Stamped & Formed * (mV)
20	7.5	60	100
16	13	60	100
12	25	60	100
8	60	60	N/A
4	100	60	N/A

* less drop through wire

Crimp Tensile Strength

Size	Tensile Strength (lbs)
20	20
16	25
12	70
8	90
4	300

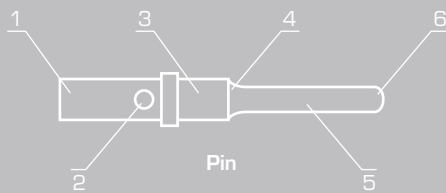
Contact Retention

Size	lbs	N
20	20	89
16	25	111
12	30	133
8	35	156
4	35	156

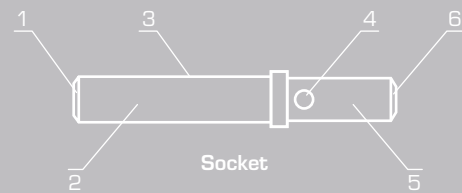
Durability

No electrical or mechanical defects after 100 cycles of engagement and disengagement.

Solid Contacts

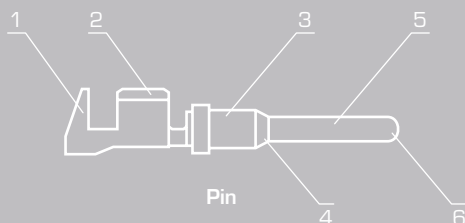


- 1 – Wire lead-in chamfer to aid wire insertion.
- 2 – Inspection hole.
- 3 – Maximum diameter to prevent bending.
- 4 – Radius for added strength.
- 5 – Smooth finish to minimise mating forces.
- 6 – Radius for smooth engagement and reduced misalignment.

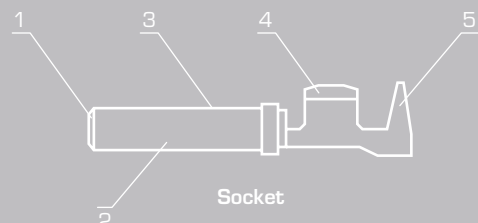


- 1 – Closed entry to prevent probe damage and prevent misalignment, chamfered lead-in to prevent misalignment.
- 2 – Durable tines for superior electrical performance.
- 3 – Stainless steel sleeve for maximum socket tine protection.
- 4 – Inspection hole.
- 5 – Crimp barrel.
- 6 – Wire lead-in chamfer to aid wire insertion.

Stamped & Formed Contacts (F-Crimp)



- 1 – Insulation wings for insulation support.
- 2 – Conductor wings for minimal contact resistance.
- 3 – Maximum diameter to prevent bending.
- 4 – Chamfered for added strength.
- 5 – Smooth finish to minimise mating forces.
- 6 – Radius for smooth engagement and reduced misalignment.



- 1 – Closed entry to prevent probe damage and prevent misalignment, chamfered lead-in to prevent misalignment.
- 2 – Durable tines for superior electrical performance.
- 3 – Stainless steel sleeve for maximum socket tine protection.
- 4 – Conductor wings for minimal contact resistance.
- 5 – Insulation wings for insulation support.