Features and Benefits

Introduction

Deutsch DT Series of environmentally-sealed connectors are designed specifically for cable to cable applications on the engine or transmission, under the hood, on the chassis or in the cab. Where signal level circuits in harsh environmental conditions, where even a small degradation in connection may be critical, the Deutsch DT Series general purpose connectors will provide the reliability and performance at the lowest cost.

Thermoplastic (-55°C to +125°C rated) housings and silicone seals are used to allow the connector to withstand conditions of extreme temperature and moisture. The connector may be employed with either solid-copper crimp type contacts for critical circuits or budget-minded stamped and formed contacts. In either selection, the spring action is designed in the socket and shrouded by by a stainless steel hood that provides closed entry for positive axial alignment during mating, and eliminates probe damage from occurring. Contact insertion and withdrawal require no special tools and are retained in locked position by dielectric fingers, molded as an intergral part of the housing. Contrasting colored secondary locks are assembled at the mating interfaces. If by chance the secondary locks are not properly seated during assembly, they will be pressed into locked position during the mating of the connector.

If you want your electrical system to be trouble free, providing years of service at the lowest cost...specify the Deutsch DT Series connector.

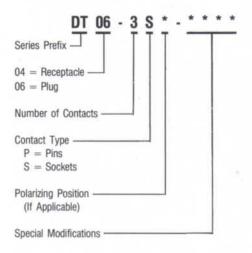


DT SERIES-4 contact arrangement shown above

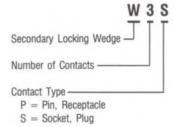
Features	Benefits
Integral connector latch	Tactile and audible coupling feedback
 Rugged thermoplastic housing 	Long service life
• -55°C to +125°C operating temperature	Engine compartment rated
 Available in 2, 3, 4, 6, 8 & 12 sizes 	 Meets most harness design requirements
Silicone seals	Superior environmental seal
 Accepts AWG 18 thru 14 wire 	• Seals .088 to .145 dia. insulation
Crimp contacts with option of gold or nickel, solid or stamped	 Data transmission or power distribution terminals
Current rating: 13 amps all contacts	Meets most power requirements
Fail safe secondary locks	• Reliable contact retention system
 Hand insertable/removable contacts 	 No special tools required
Budget-minded	Low installation costs

Product Data - Ordering Information

Ordering Information Connector Part Numbering System



Secondary Lock Part Numbering System

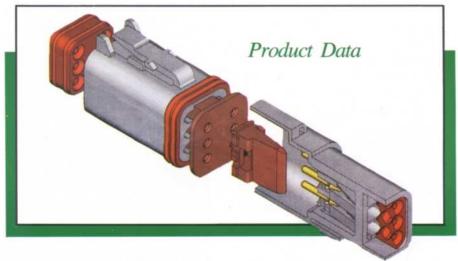


Contact Part Numbers

Solid - Crimp Type - Nickel Plated 0460-202-16141 PIN 16-18 AWG 0462-201-16141 SOC 16-18 AWG 0460-215-16141 PIN 14-16 AWG 0462-209-16141 SOC 14-16 AWG

Stamped & Formed Crimp Type - Nickel Plated Strip Form (4000 Per Reel)

1060-16-0122 PIN 16-18 AWG 1062-16-0122 SOC 16-18 AWG 1060-14-0122 PIN 14-16 AWG 1062-14-0122 SOC 14-16 AWG



Material Specifications

Housings (Plug & Receptacle) - Thermoplastic Seals - Silicone Elastomer Secondary Locks - Thermoplastic Contacts - Copper Alloy, Nickel Plated, Gold Optional

General Specifications

Dielectric Withstanding Voltage (Test Voltage): Sea Level - 1500 VAC (rms)

Current Rating (Maximum):

No. 16 13 amps

Silicone Insert:

Front and rear silicone inserts are devoid of all organic matter.

ARC Resistance:

All dielectric materials withstand a minimum of 130 seconds per ASTM D-495.

Physical Shock:

No locking, unmating or other unsatisfactory result after 50g's in each of three mutually perpendicular planes.

Dielectric Strength:

1500 volts minimum.

Submersion:

Properly wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.

Vibration:

Maintains continuity and exhibits no mechanical or physical damage after vibration. 20 g's at 10-2000 Hz.

Temperature:

Operative at temperatures from -55 $^{\circ}$ C to +125 $^{\circ}$ C at rated current.

Contact Retention:

Contacts withstand a minimum load of 25 lbs. for size 16.

Thermal Shock:

No cracking, chipping or leaking after 5 test cycles from -55 °C to +125 °C.

Insulation Resistance:

1000 megohms minimum at 25°C.

Usable Wire Size:

No. 16 contacts - receive conductor AWG 14 thru 18. Rear insert will seal on smooth insulation from .088" to .145" O.D.

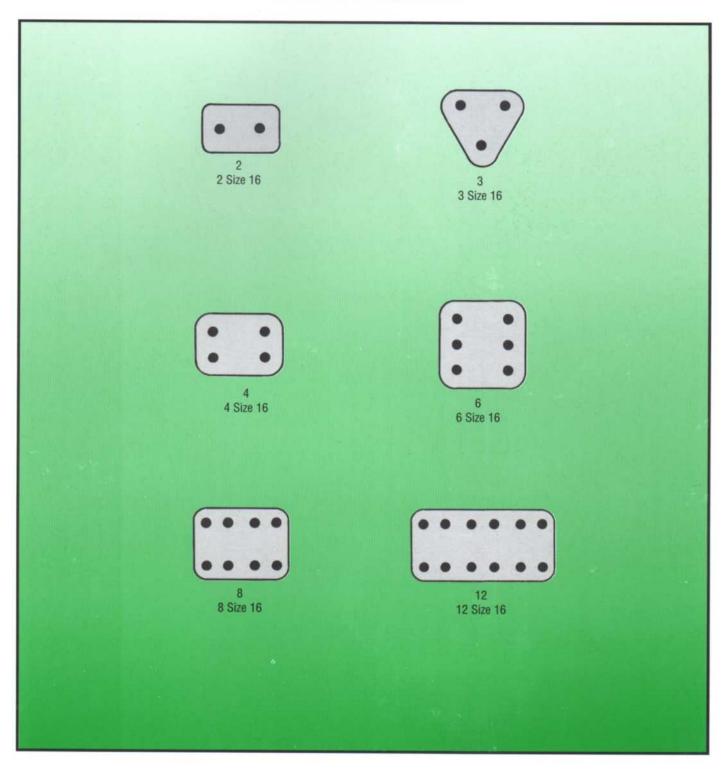
Durability:

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

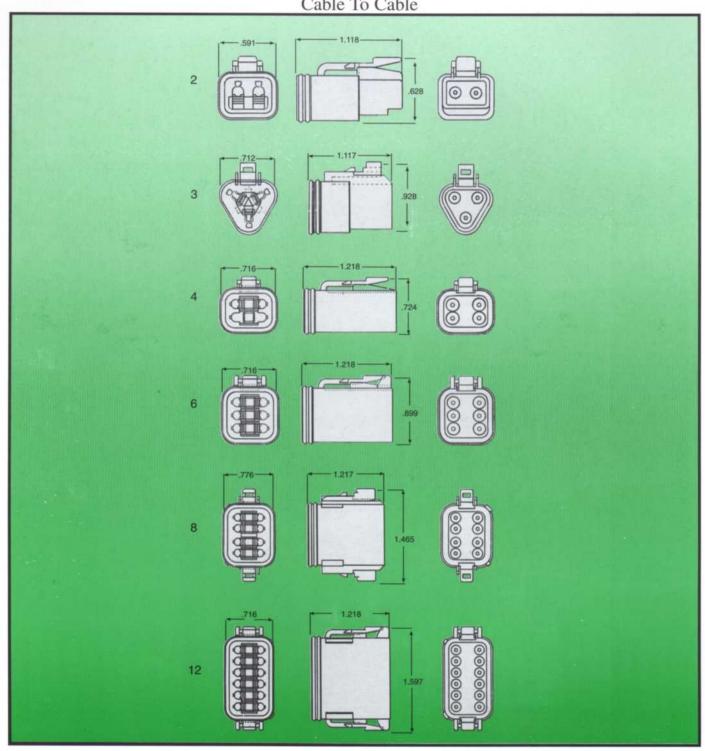
Contact Millivolt Drop:

No. 16 contacts -100 millivolt drop* using 16 AWG wire. Test current 13 amps. *Less drop through wire.

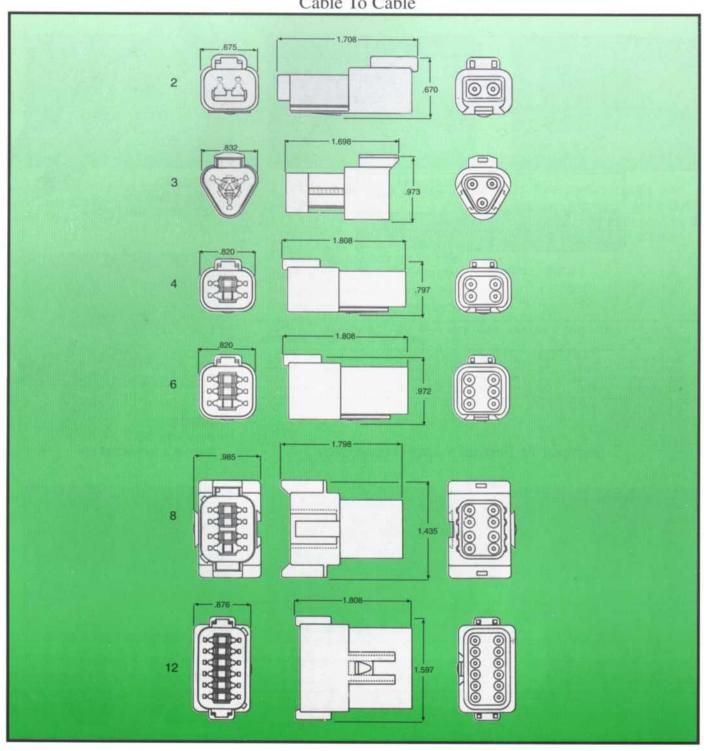
Contact Arrangements



Plug Cable To Cable



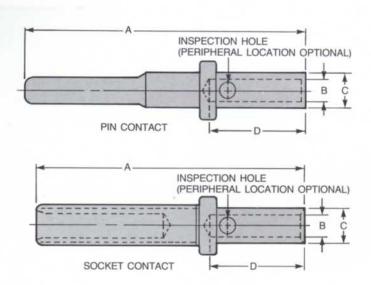
Receptacle Cable To Cable



Contacts and Tooling

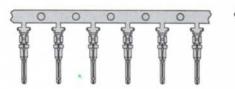
Contacts

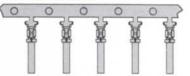
Solid - Crimp Type



CONTACT PART NUMBER	SIZE & TYPE	A MAX	B MIN	C MAX	D MIN	WIRE GAGE RANGE	RECOMMENDED STRIP LENGTH	HAND CRIMP TOOL
0460-202-16141	16 PIN	.821	.066	.103	.250	16 AND 18	.250312	HDT-48-00
0462-201-16141	16 SOC	.759	.066	.103	.250	16 AND 18	.250312	HDT-48-00
0460-215-16141	16 PIN	.821	.076	.103	.250	14 AND 16	.250312	HDT-48-00
0462-209-16141	16 SOC	.757	.076	.103	.250	14 AND 16	250312	HDT-48-00

Stamped & Formed - Crimp Type





STAMPED & FORMED	SIZE & TYPE	WIRE GAGE	RECOMMENDED	HAND
CONTACT PART NUMBER		RANGE	STRIP LENGTH	CRIMP TOOL
1060-16-0122	PIN	16 AND 18	.125175	DTT-16-00
1062-16-0122	SOCKET	16 AND 18	.125175	DTT-16-00
1060-14-0122	PIN	14 AND 16	.125175	DTT-16-00
1062-14-0122	SOCKET	14 AND 16	.125175	DTT-16-00

Tooling





DTT-16-00 Hand Crimp Tool Stamped & Formed Contacts

DT Series Assembly

Assembly Contact Insertion



1 Grasp crimped contact approximately (25.4 mm) one inch behind the contact barrel.



2 Hold connector with rear grommet facing you.



3 Push contact straight into connector grommet until a click is felt. A slight tug will confirm that it is properly locked in place.



4 Once all contacts are in place, insert orange wedge with arrow pointing toward exterior locking mechanism. The orange wedge will snap into place. Rectangular wedges are not oriented. They may go in either way.

NOTE: The receptacle is shown - use the same procedure for plug.

Contact Removal



1 Remove orange wedge using needlenose pliers or a hook shaped wire to pull wedge straight out.



2 To remove the contacts, gently pull wire backwards, while at the same time releasing the locking finger by moving it away from the contact with a screwdriver.



3 Hold the rear seal in place, as removing the contact will displace the seal.