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DT Series Technical Manual

A STEP AHEAD

A STEP AHEAD

DT Series Technical Manual



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Environmentally-Sealed Transportation Connectors



Deutsch DTM Series

Deutsch DTM Series of transportation connectors feature a miniature contact with an enhanced design based on the world class, field-proven Deutsch DT Series.

The DTM is the connector to be used in harsh environmental application where reliable signal circuits are critical to operating performance. Typical applications include on or around the engine, the transmission and under the hood.



Deutsch DT Series

An environmentally-sealed connector designed specifically for cable to cable applications on the engine or transmission, under the hood, on the chassis or in the cab. On 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.

DT Series Technical Manual



Deutsch DTP Series

Deutsch's DTP Series connectors are the answer to all of your most demanding power application requirements. DTP Series connectors offer the proven reliability and quality of Deutsch's DT Series, combined with the added flexibility of using power contacts.



Deutsch DTHD Series

Deutsch developed the DTHD Series for those applications requiring a complete, environmentally sealed, single power circuit termination. The plug features an integral coupling latch that provides tactile and audible feedback during coupling. The rugged thermoplastic receptacle is designed as an inline for cable to cable applications and is supplied with an integral Vee-Groove to accept mounting, clips, brackets and flanges.



Deutsch DT Bussed Series

Utilizing the Deutsch DT receptacle shell, Deutsch has combined the rugged characteristics of the DT product line with a bussing device allowing the elimination of various harness splices. By using internal stamped bussed contacts this product can be configured in whatever arrangement meets your individual needs in the DT shell size that matches your requirements. Complete bussing flexibility in a compact, economical package.

| Features | Benefits |
|---|--|
| Integral Connector Latch | Tactile and Audible Assembly Feedback |
| Rugged Thermoplastic Housing | Field Proven Long Service Life |
| -55° C to +125° C Operating Temperature | Engine Compartment Rated |
| Available Configurations: | |
| DTMDT 2, 3, 4, 6, 8 & 12 - Size 20/16 | Meets Most Harness Design Requirements |
| DTP 2 & 4 - Size 12 | |
| DTHD 1 - Size 4, 8 & 12 | |
| Silicone Seals: | |
| DTM - Accepts AWG 22 - 16 wire | Superior Environmental Seal |
| DT - Accepts AWG 20 - 14 wire | Seals on .063" to .120 da (1.25mm to 3.05mm) |
| DTP - Accepts AWG 14 - 10 wire | Seals on .063" to .145 da (1.25mm to 3.68mm) |
| DTHD - Accepts AWG 14 - 6 wire | Seals on .097" to .170 da (2.46mm to 4.32mm) |
| Crimp Contacts with Option of Gold or Nickel Finish - Solid or Stamped Construction | Low Costs, High Reliability Terminals for Data & Signal Transmission |
| Current rating all contacts @ 125° C no derating | |
| DTM - 7.5 Amps | |
| DT - 13 Amps | Meets Most Signal Requirements |
| DTP - 25 Amps | |
| DTHD - 25 to 100 Amps | |
| Fail-Safe Secondary Locks All (Except DTHD) | Positive Contact Retention |
| Hand Insertable/Removable Contacts | No Special Tools Required (Except DTHD) |
| Budget Milled | Low Installation Costs |



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^ STEP AHEAD

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Product Line Overview

Deutsch DTM Series

Deutsch DTM Series of transportation connectors feature a miniature contact with an enhanced design based on the world class, field-proven Deutsch "DT Series".

The DTM is the connector to be used in harsh environmental applications where reliable signal circuits are critical to operating performance. Typical applications include on or around the engine, the transmission and under the hood. In fact, everywhere data signals or critical electronic circuits go, the field proven Deutsch design of the DTM will provide reliable peak connector performance.

The low cost, size 20 contacts terminate AWG 16 to 22 gauge wire (0.5mm² to 1.5mm²). Closed entry socket (female) contacts featuring spring action fingers are protected by a stainless steel hood. This allows for positive axial alignment while mating and prevents probe damage during testing.

Thermoplastic housings offer a wide operating temperature range (-55° C to +125° C). Silicone rear wire and internal peripheral interface seals allow the DTM to withstand moisture and fluids.

Deutsch DT Series

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 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 integral part of the housing. 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.

Deutsch DTP Series

Building on both the DT and DTM design strengths, the DTP connector line was developed to fill the need for higher amperage, multi-pin, inexpensive connectors. The series meets the same specifications as the DTM and DT but offers the designer the ability to use multiple 12 gauge contacts, each with a 25 amp continuous capacity, within a single shell.

Based on the DTM overall design, it offers the protected interfacial seal located within the receptacle shell. Standard multi-seal grommet is used in both the plug and receptacle. Currently available in two and four pin configurations.

Deutsch DT Bussed Series

These standard "DT" receptacle shells feature internal pin type contact buss bar arrangements that allow common connections from 3 to 12 size 16 contacts. Buss bars are available in standard nickel or gold to match common Deutsch Industrial contacts.

Other features include the use of standard "DT" plugs to mate with these environmental receptacles. Plugs with any Deutsch modification are intermatable.

Deutsch DTHD Series

Deutsch developed the DTHD Series for those applications requiring a complete, environmentally sealed, single power circuit termination. DTHD plugs and receptacles can be permanently assembled with thermoplastic end caps that prevent removal of the silicone wire seal grommets. Designed for diesel engine, electronic fuel injectors, automatic transmissions, ABS brakes and other applications that involve fuel and oil exposure. These end caps provide the additional reliability required for critical wiring circuits.



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A STEP AHEAD



MATERIAL SPECIFICATIONS

Plug/Receptacle
 Shell: Thermoplastic
 Wedge: Thermoplastic
 Grommet: Silicone Rubber

Contacts
 Pin: Copper Alloy
 Socket: Copper Alloy
 Finish: Nickel (optional - gold) Plated

Sealing Plugs
 Thermoplastic: (All sizes)

GENERAL SPECIFICATIONS

Dielectric Withstanding Voltage
 Current leakage less than 2 milliamps at 1500 VAC

Insulation Resistance:
 1000 megohms minimum at 25° C.

Current Rating (Contact current rating @ 125° C (continuous))
 Size 20: 7.5 amps
 Size 16: 13 amps
 Size 12: 25 amps
 Size 8: 60 amps
 Size 4: 100 amps

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

Fluid Resistance:
 Connectors show no damage when exposed to most fluids used in industrial applications.

Vibration:
 No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 20 G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.

Temperature:
 Operative at temperatures from -55° C to +125° C. Continuous at rated current.

Contact Retention:
 Contacts withstand a minimum load of:
 20 lbs (89N) for size 20
 25 lbs (111N) for size 16
 30 lbs (133N) for size 12
 35 lbs (156N) for size 8
 35 lbs (156N) for size 4

Thermal Cycle:
 No cracking, chipping or leaking after 20 test cycles from -55° C to +125° C.

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

| CONTACT RESISTANCE | | | | |
|--------------------|---------------------------------|---------------------|------------------------|----------------------------------|
| CONTACT SIZE | WIRE GAUGE AWG/Gmm ² | Test Current (Amps) | Resistance (mV) Solids | Resistance (mV) Stamped & Formed |
| 20 | 20 (.50) | 7.5 | 60 | 100 |
| | 18 (.80) | 7.5 | 60 | 100 |
| | 16 (1.0) | 7.5 | 60 | 100 |
| 16 | 20 (.50) | 7.5 | 60 | 100 |
| | 18 (.80) | 10 | 60 | 100 |
| | 16 (1.0) | 13 | 60 | 100 |
| 12 | 14 (2.0) | 13 | 60 | 100 |
| | 12 (3.0) | 25 | 60 | 100 |
| | 8 | 60 | 60 | N/A |
| 8 | 8 (8.60) | 60 | 60 | N/A |
| | 10 (5.60) | 60 | 60 | N/A |
| | 4 | 60 | 60 | N/A |

| WIRE SEALING RANGE | | |
|--------------------|----------------------------------|--------------------------|
| CONTACT SIZE | RECOMMENDED WIRE INSULATION O.D. | |
| | N-SEAL | E-SEAL |
| #20 | .053-.120 (1.35-3.05) | N/A |
| | .088-.145 (2.24-3.68) | .053-.120 (1.35-3.05) |
| #12 | .134-.170 (3.40-4.32) | .097-.158 (2.46-4.01) |
| | .190-.240 (4.83-6.10) | N/A |
| #4 | .280-.292 (7.11-7.42) | N/A |

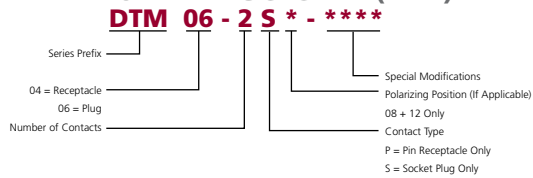


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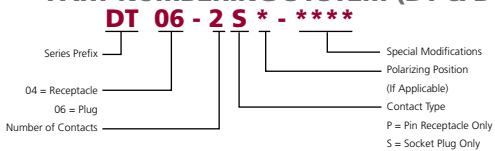
A STEP AHEAD



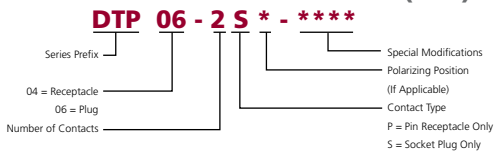
PART NUMBERING SYSTEM (DTM)



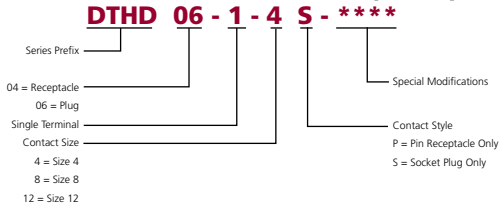
PART NUMBERING SYSTEM (DT & DT Bussed)



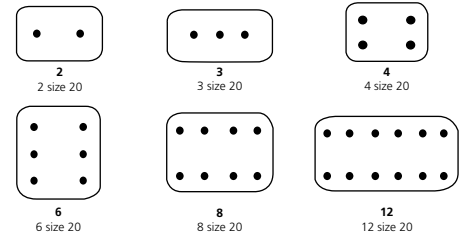
PART NUMBERING SYSTEM (DTP)



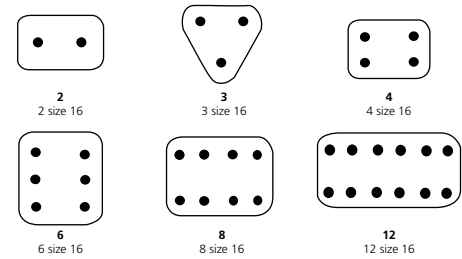
PART NUMBERING SYSTEM (DTHD)



DTM Series Size 20 Contacts



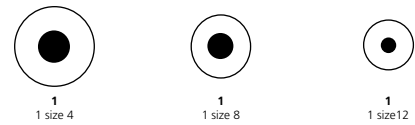
DT & DT BUSSED Series Size 16 Contacts



DTP Series Size 12 Contacts



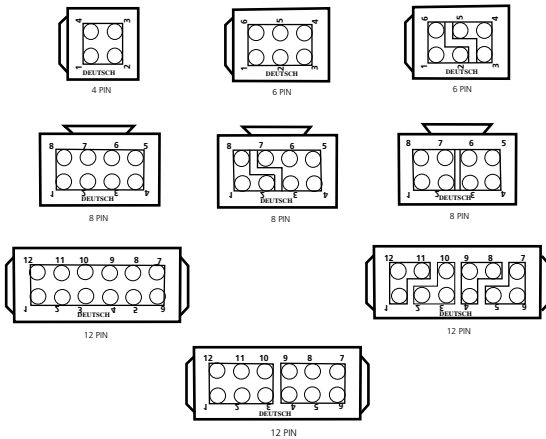
DTHD Series Size 4, 8 & 12





DT Series BUSSED Arrangements

Standard DT Receptacles Busse to Customer Specifications



Arrangements shown are currently available. For additional arrangements contact factory.

ALL PART NUMBERS ARE FOR "BLACK"

| MAX CURRENT RATINGS | NICKEL BUSS P/N | GOLD BUSS P/N | MATING PLUG P/N |
|---------------------|-----------------|----------------|-----------------|
| 4 PIN = 26 AMPS | DT04-4P-EP13 | DT04-4P-EP12 | DT06-4S-**** |
| 6 PIN = 39 AMPS | DT04-6P-EP13 | DT04-6P-EP12 | DT06-6S-**** |
| 3 PIN = 13 AMPS | DT04-6P-EP14 | DT04-6P-EP15 | DT06-6S-**** |
| 8 PIN = 52 AMPS | DT-8PB-P021 | DT04-8PB-P016 | DT06-08SB-**** |
| 5 PIN = 26 AMPS | DT04-8PB-P028 | DT04-8PB-P029 | DT06-08SB-**** |
| 4 PIN = 26 AMPS | DT04-8PB-P026 | DT04-8PB-P027 | DT06-08SB-**** |
| 3 PIN = 13 AMPS | DT04-3P-*** | DT04-3P-*** | DT06-3S-**** |
| 12 PIN = 76 AMPS | DT04-12PB-P021 | DT04-12PB-P016 | DT06-12SB-**** |
| 6 PIN = 39 AMPS | DT04-12PB-P026 | DT04-12PB-P027 | DT06-12SB-**** |
| 3 PIN = 13 AMPS | DT04-12PB-P030 | DT04-12PB-P031 | DT06-12SB-**** |

PLEASE CONSULT FACTORY FOR AVAILABILITY AND ALTERNATE KEYING

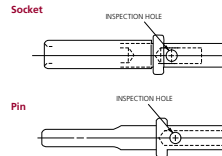


CONTACTS AND APPLICATION DATA
Solid Contacts

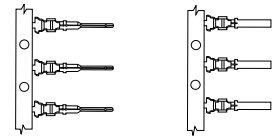
| SIZE | SOLID CONTACT PART NUMBERS | | WIRE SIZE AWG (mm ²) | RECOMMENDED STRIP LENGTH INCHES (mm) | MIN CONTACT RETENTION LBS (N) | REF CRIMP TENSILE LBS (N) | MAX RATED AMPS AT 125°C CONTINUOUS |
|------|----------------------------|---------------|----------------------------------|--------------------------------------|-------------------------------|---------------------------|------------------------------------|
| | PIN | SOCKET | | | | | |
| 20 | 0460-202-20** | 0462-201-20** | 20 (0.50) | .156 - .218 (3.96 - 5.54) | 20 (89) | 20 (89) | 7.5 |
| 16 | 0460-202-16** | 0462-201-16** | 16-20 (1.0 - 0.50) | .250 - .312 (6.35 - 7.92) | 25 (111) | 35-20 (156-89) | 13 |
| 16 | 0460-215-16** | 0462-209-16** | 14 (2.0) | .250 - .312 (6.35 - 7.92) | 25 (111) | 70 (311) | 13 |
| 12 | 0460-204-12** | 0462-203-12** | 12-14 (3.0 - 2.0) | .222 - .284 (5.64 - 7.21) | 30 (134) | 75-70 (334 - 311) | 25 |
| 8 | 0460-204-08** | 0462-203-08** | 8-10 (8.0 - 5.0) | .430 - .492 (10.92 - 12.50) | 35 (156) | 125-90 (556-400) | 60 |
| 4 | 0460-204-04** | 0462-203-04** | 6 (13.0) | .430 - .492 (10.92 - 12.50) | 35 (156) | 300 (1334) | 100 |

* See Envelope Print 0425-205-0000. Consult factory for alternate finishes.

Solid Contacts



Stamped and Formed Contacts



Stamped & Formed Contacts

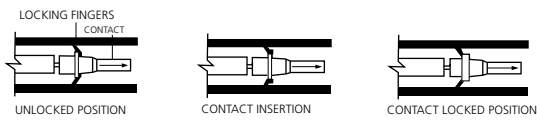
| SIZE | STAMPED & FORMED CONTACT PART NUMBERS | | CARRIER STRIP IDENTIFICATION | WIRE SIZE AWG (mm ²) | WIRE INSULATION O.D. RANGE | RECOMMENDED STRIP LENGTH INCHES (mm) | MIN CONT. RETENTION LBS (N) | REF CRIMP TENSILE LBS (N) | MAX RATED AMPS AT 125°C CONTINUOUS |
|------|---------------------------------------|--------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|-----------------------------|---------------------------|------------------------------------|
| | PIN | SOCKET | | | | | | | |
| 20 | 1060-20-01** | 1062-20-01** | 20 - 01 | 16 - 22 (1.0 - 0.35) | .075 - .125 (1.91 - 3.15) | .150 - .200 (3.81 - 5.08) | 20 (89) | 20 - 10 (89 - 45) | 7.5 |
| 20 | 1060-20-02** | 1062-20-02** | 20 - 02 | 16 - 22 (1.0 - 0.35) | .051 - .085 (1.30 - 2.16) | .150 - .200 (3.81 - 5.08) | 20 (89) | 20 - 10 (89 - 45) | 7.5 |
| 20 | N/A | 1062-20-03** | 20 - 03 | 16 - 22 (1.0 - 0.35) | .075 - .125 (1.91 - 3.15) | .150 - .200 (3.81 - 5.08) | 20 (89) | 20 - 10 (89 - 45) | 7.5 |
| 16 | 1060-14-01** | 1062-14-01** | 14-16 | 14 - 18 (2.0 - .75) | .095 - .150 (2.41 - 3.81) | .150 - .200 (3.81 - 5.08) | 25 (111) | 25 (111) | 13 |
| 16 | 1060-14-10** | 1062-14-10** | 14-16 | 14 - 18 (2.0 - .75) | .095 - .150 (2.41 - 3.81) | .150 - .200 (3.81 - 5.08) | 25 (111) | 25 (111) | 13 |
| 16 | 1060-16-01** | 1062-16-01** | 16 - 18 | 14 - 18 (2.0 - .75) | .075 - .140 (1.91 - 3.55) | .150 - .200 (3.81 - 5.08) | 25 (111) | 25 (111) | 13 |
| 16 | 1060-16-06** | 1062-16-06** | 0.5 - 1.0 | 16 - 20 (1.0 - 0.50) | .055 - .100 (1.40 - 2.54) | .150 - .200 (3.81 - 5.08) | 25 (111) | 25 - 15 (111 - 67) | 13 |
| 16 | 1060-16-07** | 1062-16-07** | 0.75 - 2.0 | 14 - 18 (2.0 - .75) | .075 - .140 (1.91 - 3.55) | .150 - .200 (3.81 - 5.08) | 25 (111) | 25 (111) | 13 |
| 16 | 1060-16-09** | 1062-16-09** | 16 - 18 | 14 - 18 (2.0 - .75) | .075 - .140 (1.91 - 3.55) | .150 - .200 (3.81 - 5.08) | 25 (111) | 25 (111) | 13 |
| 16 | 1060-16-12** | 1062-16-12** | 1.0 - 2.5 | 12 - 16 (2.5 - 1.0) | .075 - .140 (1.91 - 3.55) | .175 - .225 (4.45 - 5.72) | 25 (111) | 25 (111) | 13 |
| 16 | N/A | 1062-16-14** | 14 - 16 | 12 - 16 (2.5 - 1.0) | .075 - .140 (1.91 - 3.55) | .175 - .225 (4.45 - 5.72) | 25 (111) | 25 (111) | 13 |
| 12 | 1060-12-01** | 1062-12-01** | 12 - 14 | 12 - 14 (4.0 - 2.0) | .113 - .176 (2.87 - 4.47) | .225 - .275 (5.72 - 6.99) | 30 (134) | 70 (311) | 25 |
| 12 | 1060-12-02** | 1062-12-02** | 10 - 12 | 10 - 12 (6.0 - 4.0) | .140 - .204 (3.56 - 5.18) | .225 - .275 (5.72 - 6.99) | 30 (134) | 70 (311) | 25 |

** For proper dies and stamped & formed crimp dimensions - See Envelope 0425-208-0000 12 Size
0425-203-0000 16 Size
0425-207-0000 20 Size
0425-059-0000 16,20 Size
0425-039-0000 16 Size
0425-041-0000 12 Size
Consult factory for alternate finishes



Contact Retention System (DTHD)

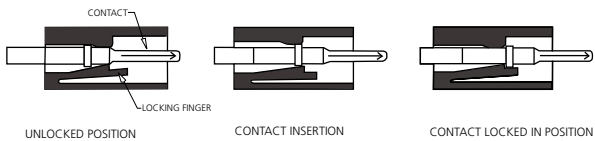
Required Removal Tool (See page 12)



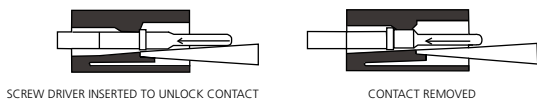
Contact Insertion Procedure



Contact Insertion System (DTM/DT/DTP)



Contact Removal Procedure (DTM/DT/DTP)



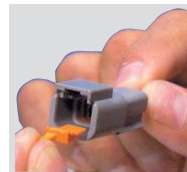
Assembly Contact Insertion (DTM, DT, DTP)



1. Grasp crimped contact approximately 1.0" (25,4mm) behind the contact barrel.

2. Hold connector with rear grommet facing you.

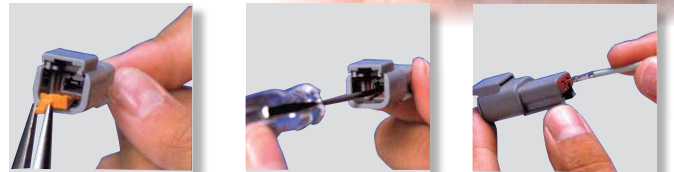
3. Push contact straight into connector grommet until a click is felt. A slight tug will confirm that it is properly locked in place.



4. Once all contacts are in place, insert orange wedge: receptacles - with half holes aligning with contacts. Plugs - with contacts aligning behind full holes. The orange wedge will snap into place.

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

Contact Removal



1. Remove orange wedge using needlenose pliers 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.

Accessories



To meet the application requirements where wires are to be protected, the DT Series may be supplied with boot adaptors. These will accept shaped boots / sleeves or shrink tubing. Parts for standard or thin wall wire are available.

Shrink Boot Adaptor Modification Numbers

Part Number - Plugs

Part Number - Receptacles

Wire Sealing Range: **Standard** - 2.24mm - 3.68mm wire insulation diameter **Thin wall** - 1.35mm wire insulation diameter

| Number of Ways | Basic Part Number | Grey | | Black | | Number of Ways | Basic Part Number | Grey | | Black | |
|----------------|-------------------|-------|-----------|-------|-----------|----------------|-------------------|-------|-----------|-------|-----------|
| | | Std. | Thin Wall | Std. | Thin Wall | | | Std. | Thin Wall | Std. | Thin Wall |
| 2 | DT06-2S | -E008 | -CE04 | -EP11 | -CE13 | 2 | DT04-2P | -E008 | -CE04 | -EE11 | -CE09 |
| 3 | DT06-3S | -E008 | -CE04 | -EP11 | -CE13 | 3 | DT04-3P | -E008 | -CE04 | -EE11 | -CE09 |
| 4 | DT06-4S | -E008 | -CE04 | -EP11 | -CE13 | 4 | DT04-4P | -E008 | -CE04 | -EE11 | -CE09 |
| 6 | DT06-6S | -E008 | -CE04 | -EP11 | -CE13 | 6 | DT06-6P | -E008 | -CE04 | -EE11 | -CE09 |
| 8 | DT06-8SA | -E008 | -CE04 | -EP11 | -CD13 | 8 | DT04-8PA | -E008 | -CE04 | -EE11 | -CE09 |
| 12 | DT06-12SA | -E008 | -CE04 | -EP11 | -CD13 | 12 | DT04-12PA | -E008 | -CE04 | -EE11 | -CE09 |

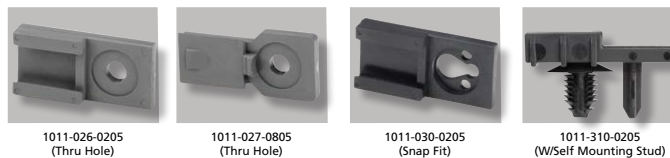
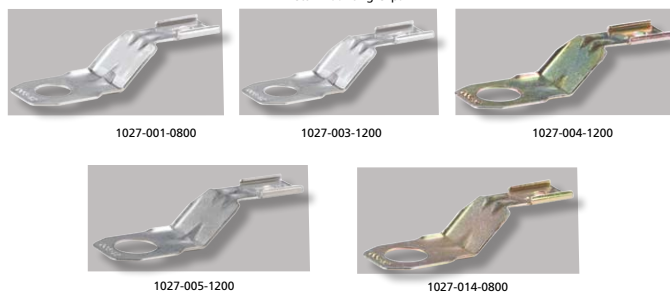
DTHD Removal Tools

Sealing Plugs

| NORMAL WIRE SEALS (N) | | | EXTRA THIN WALL WIRE SEALS (E) | | | SEALING PLUG | |
|-----------------------|------|----------------|--------------------------------|------|----------------|--------------|---------------|
| PART NO. | SIZE | WIRE RANGE AWG | PART NO. | SIZE | WIRE RANGE AWG | CONTACT SIZE | PART NO. |
| 114010 | 12 | 12-14 | 0411-337-1205 | 12 | 12-14 | 20 | 0413-204-2005 |
| 114008 | 8 | 8-10 | 0411-353-0805 | 8 | 8-10 | 16-12 | 114017 |
| 114009 | 4 | 6 | 114009 | 4 | 6 | 8 | 114018 |
| | | | | | | 4 | 114019 |

DT Mounting Clips

Metal Mounting Clips



Metal Mounting Clips

Plastic Mounting Clips

| Part Number | Used On | Material | Hole O.D. in. (mm) | Part Number | Used On | Material | Color |
|---------------|---|--------------------------------|--------------------|---------------|---|----------|-------|
| 1027-003-1200 | DTM (all) DT 2, 3, 4, 6, 12 DTP (all) DTHD (all) | Stainless Steel | .433 (11.0) | 1011-026-0205 | DTM (all) DT 2, 3, 4, 6, 12 DTP (all) DTHD (all) | Plastic | Gray |
| 1027-005-1200 | DTM (all) DT 2, 3, 4, 6, 12 DTP (all) DTHD (all) | Stainless Steel | .512 (13.0) | 1011-027-0805 | DT 8 Cavity Only | Plastic | Gray |
| 1027-004-1200 | DTM (all) DT 2, 3, 4, 6, 12 DTP (all) DTHD (all) | Stainless Steel w/Zinc Plating | .512 (13.0) | 1011-027-0805 | DTM (all) DT 2, 3, 4, 6, 12 DTP (all) DTHD (all) | Plastic | Black |
| 1027-001-0800 | DT 8 cavity only | Stainless Steel | .433 (11.0) | | | | |
| 1027-014-0800 | DT 8 cavity only | Stainless Steel w/Zinc Plating | .323 (8.2) | | | | |



Back Shells

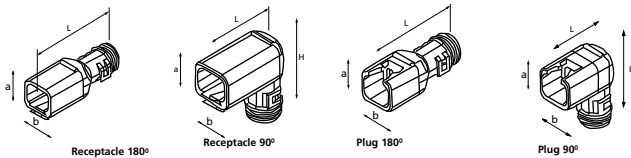
The Deutsch range of Back Shells is designed to snap fix onto the full range of standard DT connectors (i.e. without end cap). The innovative design allows each unit to accommodate several different sizes of slit or unslit corrugated tubes.

They are available for both plugs and receptacles and the options include straight (180°) and right angled (90°) adaptors for 2, 3, 4, 6, 8 and 12 way, additionally a version equipped with strain relief features 2, 3, 4 and 6 way for jacked cables.

Material: PA 6.6 / black
 IP Rating: IP40
 Operating Temperature: -40 to 125° C
 Handling Temperature: -5 to 45° C

| Connector | Outlet | Strain Relief | Envelope Dimensions (mm) | | | | Item No. | Part No. |
|-----------|--------|---------------|--------------------------|------|------|------|----------|---------------|
| | | | a | b | L | H | | |
| DT04-2P | 180 | x | 18.0 | 17.0 | 54.5 | - | 61031-23 | 1011-257-0205 |
| | 180 | | 18.0 | 17.0 | 54.5 | - | 61031-33 | 1011-229-0205 |
| | 90 | | 18.0 | 17.0 | 40.0 | 37.0 | 61031-24 | 1011-258-0205 |
| | 90 | x | 18.0 | 17.0 | 40.0 | 37.0 | 61031-34 | 1011-230-0205 |
| DT06-2S | 180 | x | 16.0 | 17.0 | 45.5 | - | 61031-25 | 1011-255-0205 |
| | 180 | | 16.0 | 17.0 | 45.5 | - | 61031-35 | 1011-227-0205 |
| | 90 | | 16.0 | 17.0 | 31.0 | 37.0 | 61031-26 | 1011-256-0205 |
| | 90 | x | 16.0 | 17.0 | 31.0 | 37.0 | 61031-36 | 1011-228-0205 |
| DT04-3P | 180 | x | 25.0 | 23.0 | 64.5 | - | 61051-23 | 1011-261-0305 |
| | 180 | | 25.0 | 23.0 | 64.5 | - | 61051-33 | 1011-233-0305 |
| | 90 | x | 25.0 | 23.0 | 44.0 | 48.0 | 61051-24 | 1011-262-0305 |
| | 90 | | 25.0 | 23.0 | 44.0 | 48.0 | 61051-34 | 1011-234-0305 |
| DT06-3S | 180 | x | 21.0 | 23.0 | 56.0 | - | 61051-25 | 1011-259-0305 |
| | 180 | | 21.0 | 23.0 | 56.0 | - | 61051-35 | 1011-231-0305 |
| | 90 | x | 21.0 | 23.0 | 36.0 | 48.0 | 61051-26 | 1011-260-0305 |
| | 90 | | 21.0 | 23.0 | 36.0 | 48.0 | 61051-36 | 1011-232-0305 |
| DT04-4P | 180 | x | 22.0 | 22.0 | 59.5 | - | 61048-23 | 1011-265-0405 |
| | 180 | | 22.0 | 22.0 | 59.5 | - | 61048-33 | 1011-237-0405 |
| | 90 | x | 22.0 | 22.0 | 43.0 | 45.0 | 61048-24 | 1011-266-0405 |
| | 90 | | 22.0 | 22.0 | 43.0 | 45.0 | 61048-34 | 1011-238-0405 |
| DT06-4S | 180 | x | 20.0 | 22.0 | 53.0 | - | 61048-25 | 1011-263-0405 |
| | 180 | | 20.0 | 22.0 | 53.0 | - | 61048-35 | 1011-235-0405 |
| | 90 | x | 20.0 | 22.0 | 35.0 | 45.0 | 61048-26 | 1011-264-0405 |
| | 90 | | 20.0 | 22.0 | 35.0 | 45.0 | 61048-36 | 1011-236-0405 |
| DT06-6P | 180 | x | 26.0 | 21.5 | 64.0 | - | 61057-23 | 1011-269-0605 |
| | 180 | | 26.0 | 21.5 | 64.0 | - | 61057-33 | 1011-241-0605 |
| | 90 | x | 26.0 | 21.5 | 43.0 | 50.0 | 61057-24 | 1011-270-0605 |
| | 90 | | 26.0 | 21.5 | 43.0 | 50.0 | 61057-34 | 1011-242-0605 |
| DT06-6S | 180 | x | 23.5 | 20.0 | 55.5 | - | 61057-25 | 1011-267-0605 |
| | 180 | | 23.5 | 20.0 | 55.5 | - | 61057-35 | 1011-239-0605 |
| | 90 | x | 23.5 | 21.0 | 38.0 | 50.0 | 61057-26 | 1011-268-0605 |
| | 90 | | 23.5 | 21.0 | 38.0 | 50.0 | 61057-36 | 1011-240-0605 |
| DT-04-8P | 180 | | 27.5 | 28.0 | 62.0 | - | 61049-33 | 1011-245-0805 |
| | 90 | | 27.5 | 28.0 | 47.5 | 50.5 | 61049-34 | 1011-246-0805 |
| DT06-8S | 180 | | 26.5 | 28.5 | 57.0 | - | 61049-35 | 1011-243-0805 |
| | 90 | | 24.5 | 28.5 | 39.5 | 49.0 | 61049-36 | 1011-244-0805 |
| DT04-12P | 180 | | 26.0 | 35.5 | 63.5 | - | 61052-33 | 1011-249-1205 |
| | 90 | | 26.0 | 36.5 | 53.0 | 50.5 | 61052-34 | 1011-250-1205 |
| DT06-12S | 180 | | 23.0 | 36.0 | 58.5 | - | 61052-35 | 1011-247-1205 |
| | 90 | | 23.0 | 36.0 | 43.5 | 50.0 | 61052-36 | 1011-248-1205 |

Tube Size by Connector and Additional Length (mm) needed



Receptacle 180°

Receptacle 90°

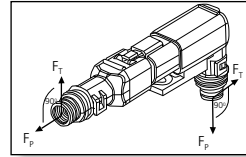
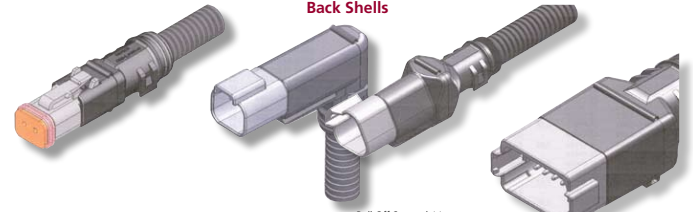
Plug 180°

Plug 90°

A STEP AHEAD



Back Shells



Pull Off Strength**

| Connector | F _p (N) | F _d (N) |
|---------------------|--------------------|--------------------|
| DT04-2P / DT06-2S | 50 / 50 | 50 / 10 |
| DT04-3P / DT06-3S | 50 / 50 | 50 / 50 |
| DT04-4P / DT06-4S | 50 / 50 | 50 / 25 |
| DT04-6P / DT06-6S | 50 / 50 | 50 / 30 |
| DT04-8P / DT06-8S | 50 / 50 | 50 / 35 |
| DT04-12P / DT06-12S | 50 / 50 | 50 / 40 |

** valid for unslit corrugated tubes. Follow also connector mounting instruction; no force must apply to wires and connector to maintain continuous tightness of the connection.

Tube size by connector and additional length (mm) needed

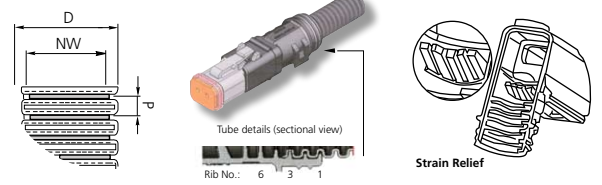
| Connector | NW6 | NW7,5 | NW8,5 | NW10 | NW13 | NW17 |
|---------------------|----------|----------|----------|----------|----------|----------|
| DT04-2P / DT06-2S | X + 16,0 | X + 16,0 | X + 10,0 | X + 7,0 | - | - |
| DT04-3P / DT06-3S | X + 18,0 | X + 18,0 | X + 12,5 | X + 7,0 | - | - |
| DT04-4P / DT06-4S | X + 16,0 | X + 16,0 | X + 10,0 | X + 13,0 | - | - |
| DT04-6P / DT06-6S | - | - | X + 20,0 | X + 14,0 | X + 7,0 | - |
| DT04-8P / DT06-8S | - | - | X + 20,0 | X + 24,5 | X + 8,0 | - |
| DT04-12P / DT06-12S | - | - | - | - | X + 16,0 | X + 10,0 |
| Corrugated | D | 9,3 | 10,0 | 11,7 | 13,0 | 15,8 |
| Tube Details | P | 2,8 | 2,7 | 2,4 | 2,7 | 2,7 |

X = Tube length needed for harness

Ribs to be used for tube mounting*

| Connector | NW6 | NW7,5 | NW8,5 | NW10 | NW13 | NW17 |
|---------------------|-----|-------|-------|------|------|------|
| DT04-2P / DT06-2S | 6 | 6 | 4 | 3 | - | - |
| DT04-3P / DT06-3S | 7 | 7 | 5 | 3 | - | - |
| DT04-4P / DT06-4S | 6 | 6 | 4 | 3 | - | - |
| DT04-6P / DT06-6S | - | - | 7 | 5 | 3 | - |
| DT04-8P / DT06-8S | - | - | 7 | 5 | 3 | - |
| DT04-12P / DT06-12S | - | - | - | 7 | 5 | 3 |

* The corrugated tube must be placed into the ribs as per the above table.



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