

DT Series Technical Manual

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.





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:	
DTM/DT 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	Seals on .053" to .120 dia.(1.35mm to 3.05mm)
DT: Accepts AWG 20 - 14 wire	Seals on .053" to .145 dia.(1.35mm to 3.68 mm)
DTP: Accepts AWG 14 - 10 wire	Seals on .097" to .170 dia.(2.46mm to 4.32mm)
DTHD: Accepts AWG 14 - 6 wire	Seals on .134 to .292 dia. (3.40mm to 7.42mm)
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 Minded	Low Installation Costs





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.

4



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.



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)

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.

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

CONTACT RESISTANCE

CONTACT SIZE	WIRE GAUGE AWG(mm 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)	18	60	100
	12 (3.0)	25	60	100
	8 (8.60)	60	60	N/A
8	10 (5.60)	60	60	N/A
	4 (13.0)	100	60	N/A

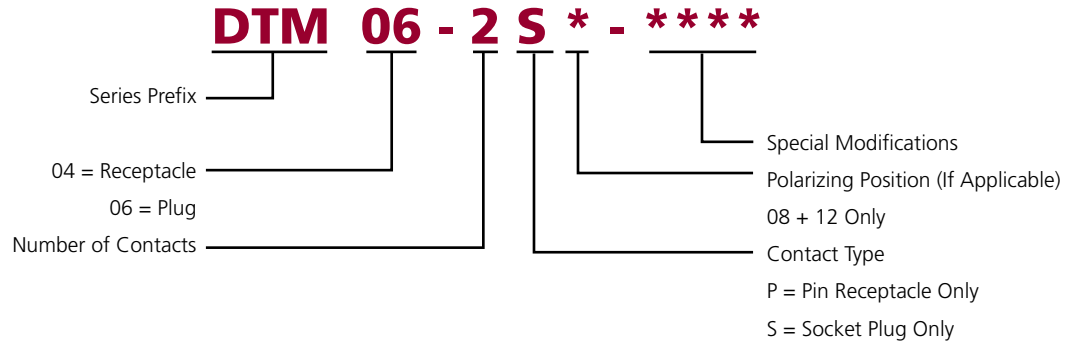
WIRE SEALING RANGE

CONTACT SIZE	RECOMMENDED WIRE INSULATION O.D.	
	N-SEAL	E-SEAL
#20	.053-.120 (1.35-3.05)	N/A
#16	.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)
#8	.190-.240 (4.83-6.10)	N/A
#4	.280-.292 (7.11-7.42)	N/A

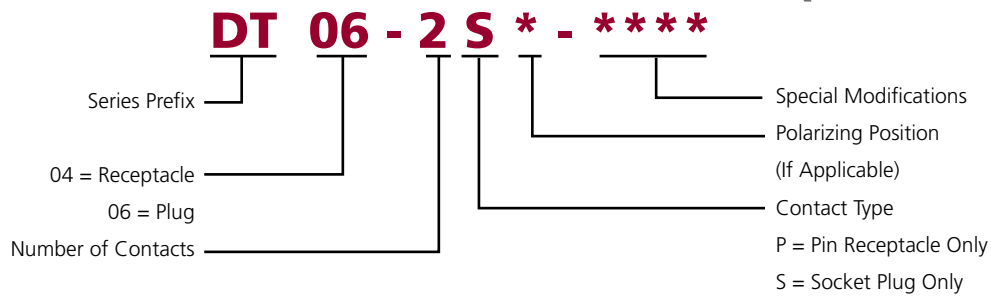




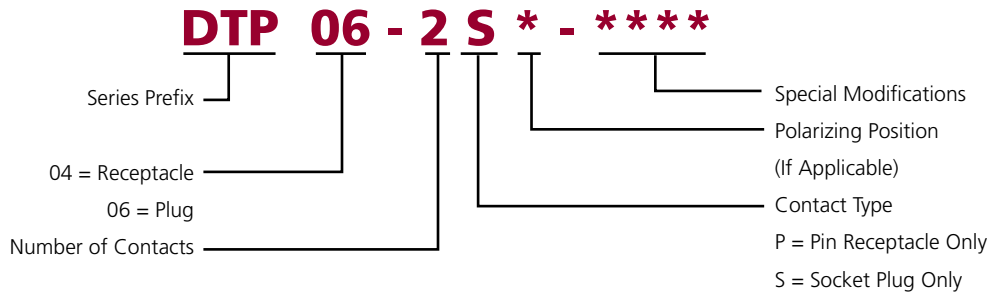
PART NUMBERING SYSTEM (DTM)



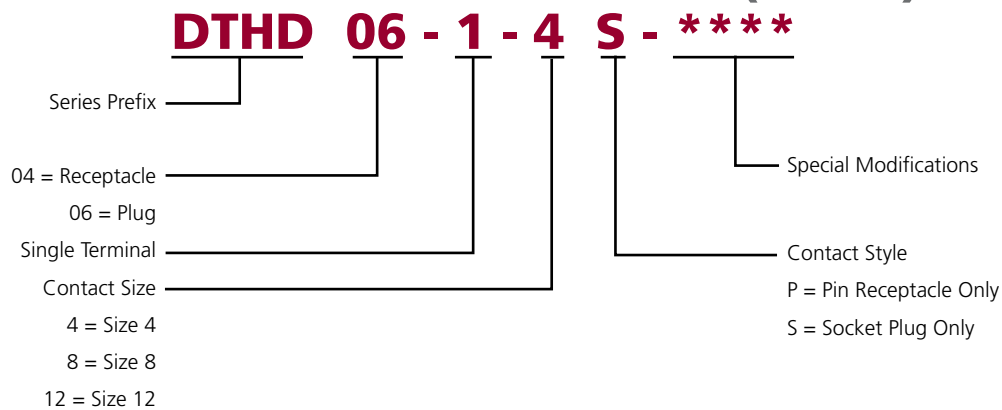
PART NUMBERING SYSTEM (DT & DT Bussed)



PART NUMBERING SYSTEM (DTP)

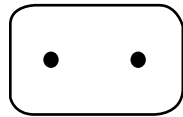


PART NUMBERING SYSTEM (DTHD)

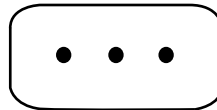




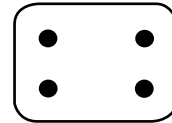
DTM Series Size 20 Contacts



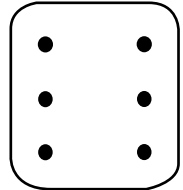
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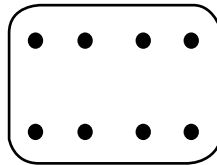
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3 size 20



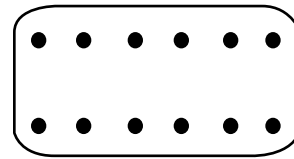
4
4 size 20



6
6 size 20

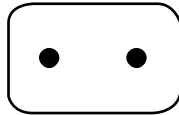


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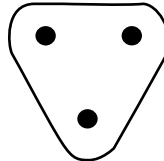


12
12 size 20

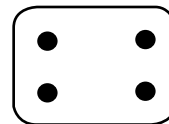
DT & DT BUSSED Series Size 16 Contacts



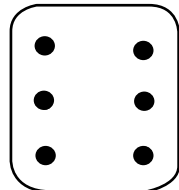
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2 size 16



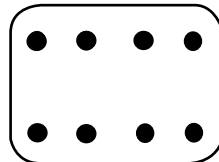
3
3 size 16



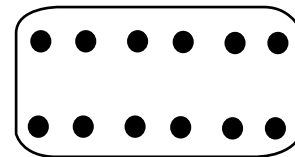
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4 size 16



6
6 size 16

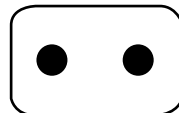


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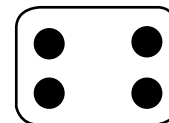


12
12 size 16

DTP Series Size 12 Contacts

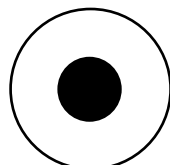


2
2 size 12

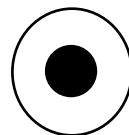


4
4 size 12

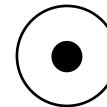
DTHD Series Size 4, 8 & 12



1
1 size 4



1
1 size 8

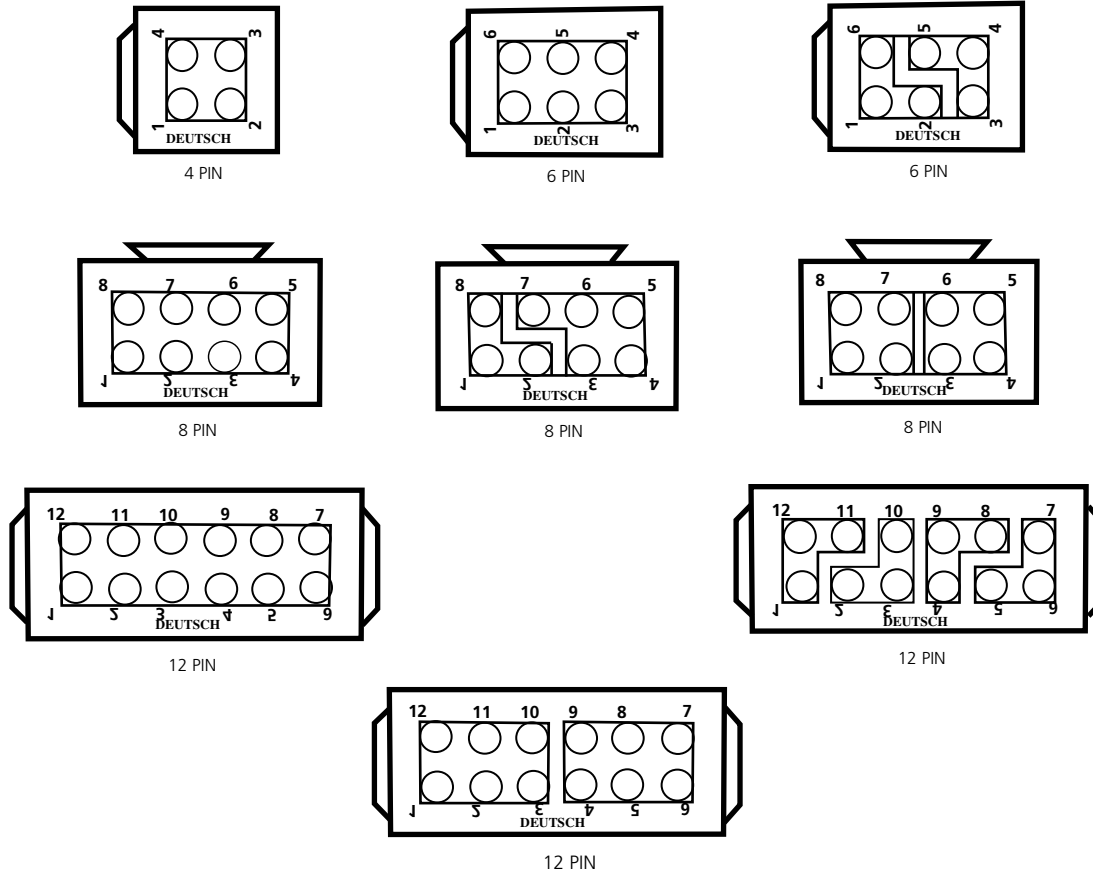


1
1 size 12



DT Series BUSSED Arrangements

Standard DT Receptacles Bussed 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	DT04-8PB-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



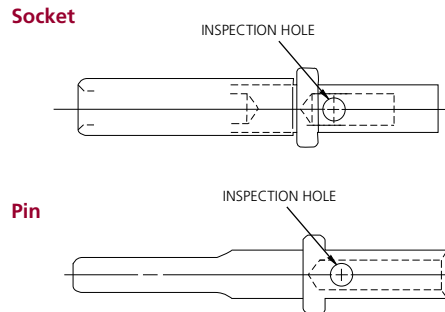
CONTACTS AND APPLICATION DATA

Solid Contacts

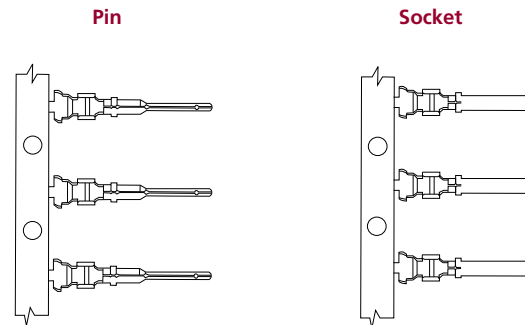
SIZE	SOLID CONTACT PART NUMBERS		WIRE SIZE AWG (mm ²)	RECOMMENDED STRIP LENGTH INCHES (mm)	MIN CONTACT RETENTION LBS (N)	REF CRIMP TENSILE LBS (N)	MAX RATED AMPS AT 125°C CONTINUOUS
	PIN	SOCKET					
20	0460-202-20**	0462-201-20**	20 (0.50)	.156-.218 (3.96 - 5.54)	20 (89)	20 (89)	7.5
16	0460-202-16**	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

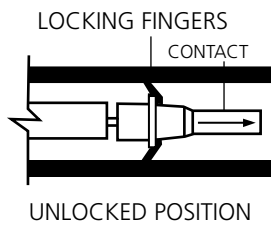
SIZE	STAMPED & FORMED CONTACT PART NUMBERS		CARRIER STRIP IDENTIFICATION	WIRE SIZE AWG (mm ²)	WIRE INSULATION O.D. RANGE	RECOMMENDED STRIP LENGTH INCHES (mm)	MIN CONT. RETENTION LBS (N)	REF CRIMP TENSILE LBS (N)	MAX RATED AMPS AT 125°C CONTINUOUS
	PIN	SOCKET							
20	1060-20-01**	1062-20-01**	20 - 01	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 Consult factory for alternate finishes
 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

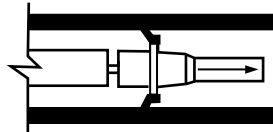


Contact Retention System (DTHD)

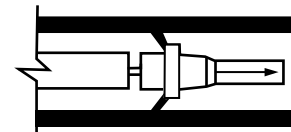
Required Removal Tool (See page 12)



UNLOCKED POSITION

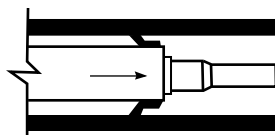


CONTACT INSERTION

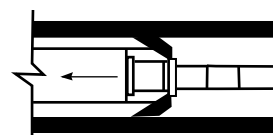


CONTACT LOCKED POSITION

Contact Insertion Procedure

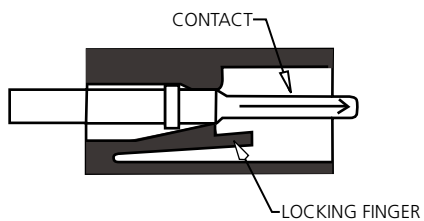


TOOL INSERTED TO UNLOCK CONTACT

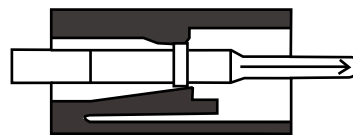


TOOL AND CONTACT REMOVED

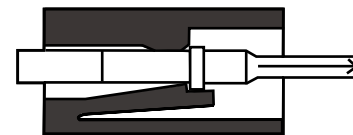
Contact Insertion System (DTM/DT/DTP)



UNLOCKED POSITION

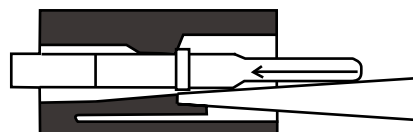


CONTACT INSERTION

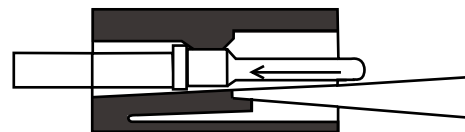


CONTACT LOCKED IN POSITION

Contact Removal Procedure (DTM/DT/DTP)



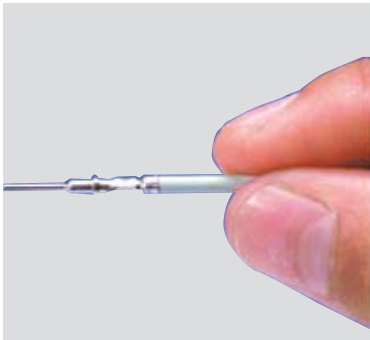
SCREW DRIVER INSERTED TO UNLOCK CONTACT



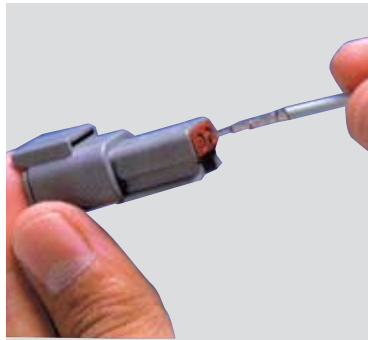
CONTACT REMOVED



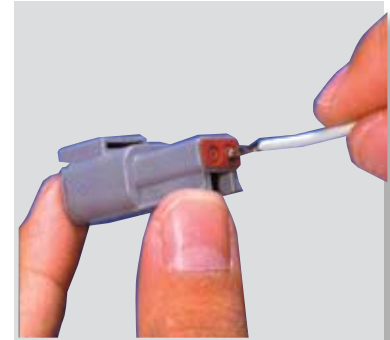
Assembly Contact Insertion (DTM, DT, DTP)



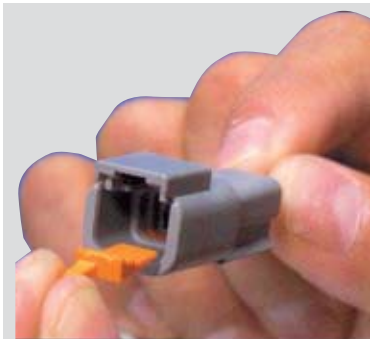
1. Grasp crimped contact approximately 1.0" (25.4mm) behind the contact barrel.



2. Hold connector with rear grommet facing you.



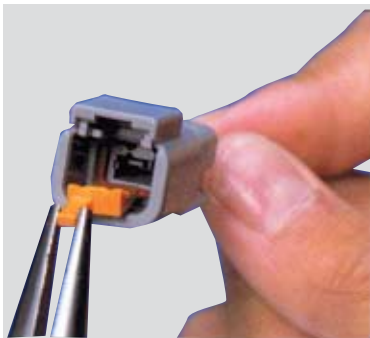
3. Push contact straight into connector grommet until a click is felt. A slight tug will confirm that it is properly locked in place.



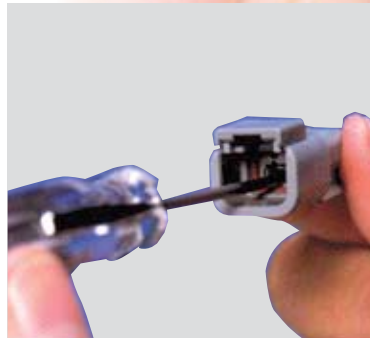
4. Once all contacts are in place, insert orange wedge: receptacles - with half holes aligning with contacts. Plugs - with contacts aligning behind full holes. The orange wedge will snap into place.

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

Contact Removal



1. Remove orange wedge using needle-nose 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

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

Wire Sealing Range: **Standard** - 2.24mm - 3.68mm wire insulation diameter **Thin wall** - 1.35mm - 3.05mm wire insulation diameter

DT Mounting Clips

Metal Mounting Clips



1027-001-0800



1027-003-1200



1027-004-1200



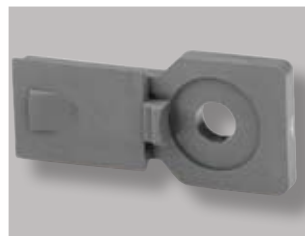
1027-005-1200



1027-014-0800



1011-026-0205
(Thru Hole)



1011-027-0805
(Thru Hole)



1011-030-0205
(Snap Fit)



1011-310-0205
(W/Self Mounting Stud)

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.

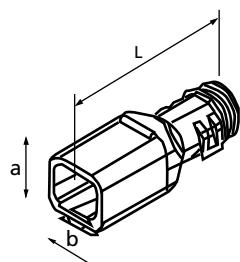
They are available for both plugs and receptacles and the options include straight (180°) and right angled (90°) adaptors for 2, 3, 4, 6, 8 and 12 way, additionally a version equipped with strain relief features 2, 3, 4 and 6 way for jacked cables.

Material: PA 6.6 / black
IP rating: IP40

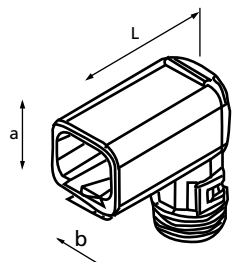
Operating Temperatures: -40 to 125° C
Handling Temperature: -5 to 45° C

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	x	18,0	17,0	40,0	37,0	61031-24	1011-258-0205
	90		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	x	16,0	17,0	31,0	37,0	61031-26	1011-256-0205
	90		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
DT04-6P	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

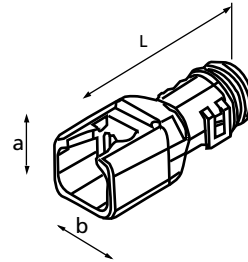
Tube Size by Connector and Additional Length (mm) needed



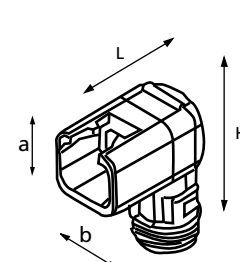
Receptacle 180°



Receptacle 90°



Plug 180°



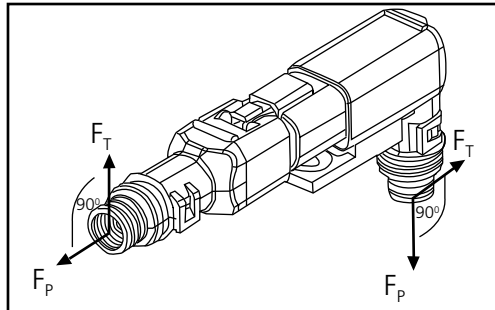
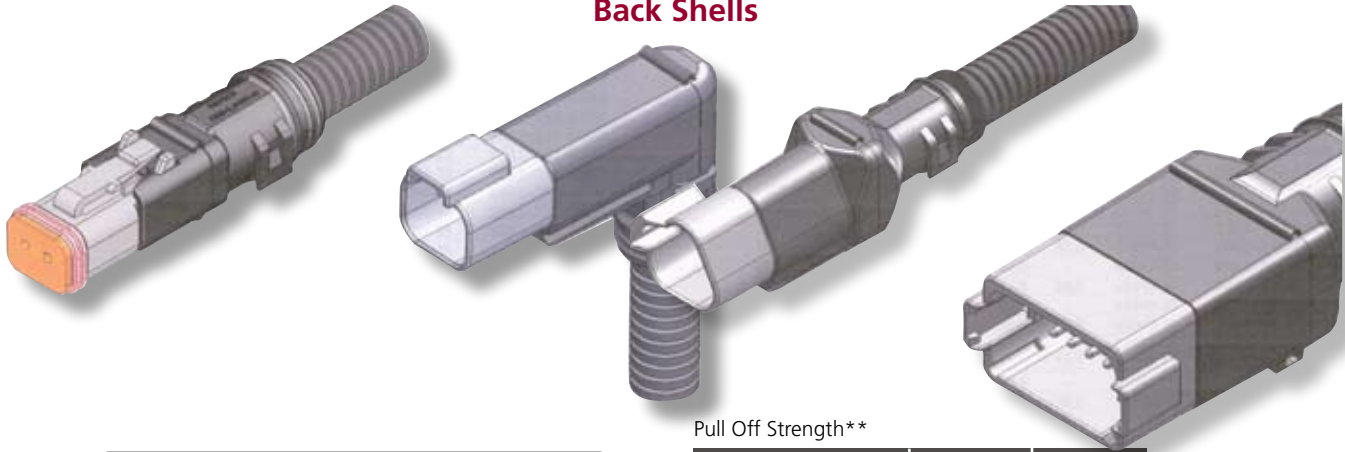
Plug 90°

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A STEP AHEAD



Back Shells



Pull Off Strength**

Connector	F _p (N)	F _p (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

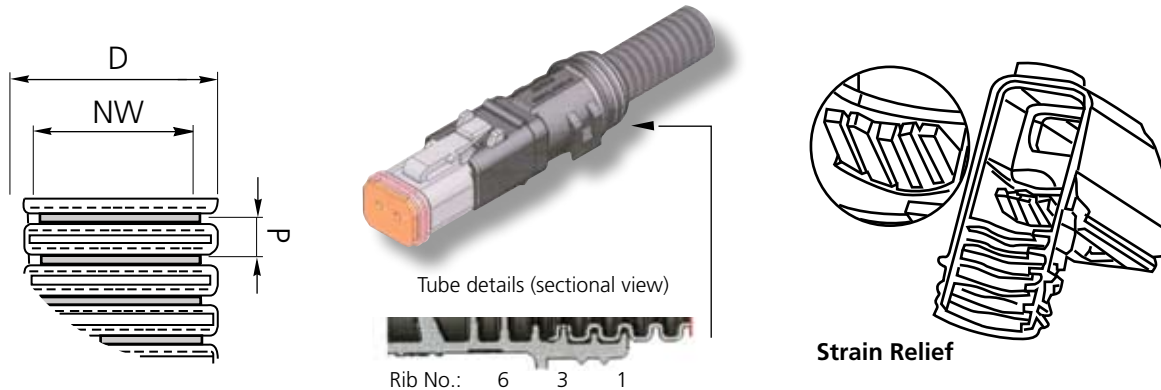
Connector	NW6	NW7,5	NW8,5	NW10	NW13	NW17	
DT04-2P / DT06-2S	X + 16,0	X + 16,0	X + 10,0	X + 7,0	-	-	
DT04-3P / DT06-3S	X + 18,0	X + 18,0	X + 12,5	X + 7,0	-	-	
DT04-4P / DT06-4S	X + 16,0	X + 16,0	X + 10,0	X + 13,0	-	-	
DT04-6P / DT06-6S	-	-	X + 20,0	X + 14,0	X + 7,0	-	
DT04-8P / DT06-8S	-	-	X + 20,0	X + 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	21,2
Tube Details	P	2,8	2,7	2,4	2,7	2,7	3,3

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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