DEUTSCH DTM HEADERS

DEUTSCH DTM headers provide an environmentally sealed solution for PCB applications.
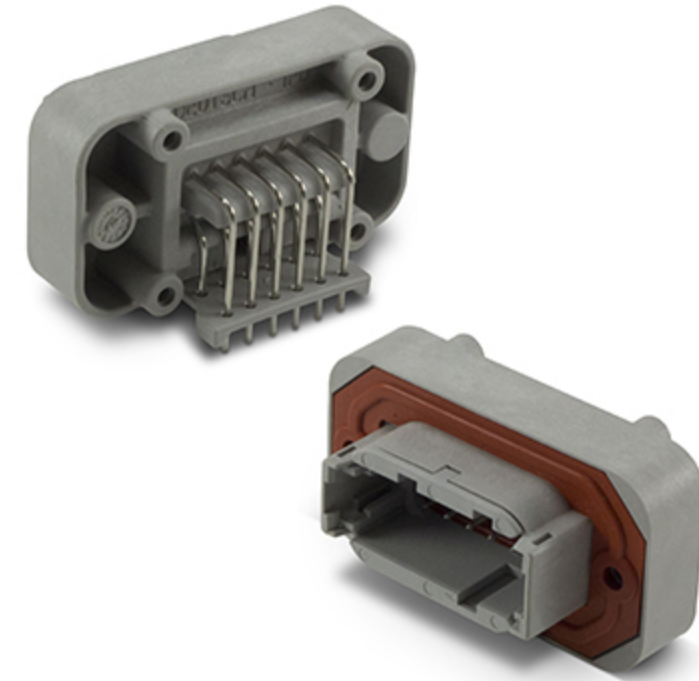
Connectors > Automotive Connectors > Automotive Headers

DEUTSCH DTM headers are printed circuit board connectors available with straight or right angle pins. DTM headers are available with 12 or 48 cavities and accommodate size 20 contacts, rated for 7.5 amps.

Connector System: **Wire-to-Board**

Centerline (Pitch): **4.19 mm**

Sealable: **Yes**

Number of Rows: **2**

Mating Pin Diameter: **1.02 mm**

DEUTSCH DTM Connectors Overview

- Accepts contact size 20 (7.5 amps)
- 14-22 AWG (2.50-0.35 mm ^{2})
- 2, 3, 4, 6, 8, and 12 cavity arrangements
- In-line, flange, or PCB mount
- Rectangular, thermoplastic housing
- Integrated latch for mating
- Wedgelocks confirm contact alignment and retention
- Available accessories: boots, mounting clips

▣◀ DEUTSCH DT Family Connector Overview & Assembly Instructions (English)

Learn about our field proven DEUTSCH DT, DTM, and DTP connectors for harsh environment applications. Watch this video for an overview of the connectors and for step-by-step instructions on inserting and removing contacts, as well as mating and unmating.

Additional DEUTSCH DTM products

VIEW ALL DEUTSCH DTM PRODUCTS

DEUTSCH DTM connectors fill the need for lower amperage, multi-pin connectors. They are environmentally sealed and stand up to harsh environments.

Features

Product Type Features

Hybrid Header	No
Shielded	No
Connector System	Wire-to-Board
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Sections	1, 2, 4
Number of Signal Positions	12, 24, 48
Number of Positions	12, 24, 48
PCB Mount Orientation	Right Angle, Straight
Number of Rows	2

Electrical Characteristics

Voltage Rating (Max) (VDC)	250
Operating Voltage (VDC)	250
Operating Voltage (VAC)	250
Voltage Rating (Max) (VAC)	250
Nominal Voltage Architecture (V)	12, 24

Body Features

Primary Product Color	Black, Gray
Connector Code	A, AB, ABCD, AC, B, C, CD, D

Contact Features

Mating Pin Diameter (mm)	1.02
Mating Pin Diameter (in)	.04

Contact Mating Area Plating Material	Gold (Au), Nickel (Ni), Tin (Sn)
Contact Current Rating (Max) (A)	7.5

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Locking Interface	With
Mounting Holes	With
PCB Mount Alignment	Without
Panel Mount Feature	With, Without
PCB Mount Retention	With
PCB Mount Retention Type	Mounting Screw
Connector Mounting Type	Board Mount, Fixing Screw, Panel Mount

Housing Features

Centerline (Pitch) (mm)	4.19
Centerline (Pitch) (in)	.165

Dimensions

Length (mm)	28.37, 30.23, 36.91, 38.23
Length (in)	1.117, 1.19, 1.453, 1.505
PCB Thickness (Recommended) (mm)	.78 - 1.57, .78 - 2.36
PCB Thickness (Recommended) (in)	.031 - .062, .031 - .093
Profile Height from PCB (mm)	25.71, 28.37, 30.23, 35.54
Profile Height from PCB (in)	1.012, 1.117, 1.19, 1.195, 1.36
Width (mm)	101, 33.02, 60.96, 61, 82.7
Width (in)	1.3, 2.4, 3.256, 3.976

Usage Conditions

Operating Temperature (Max) (°C)	125
Operating Temperature (Max) (°F)	257
Operating Temperature Range (°C)	-55 - 125
Operating Temperature Range (°F)	-67 - 257

Operation/Application

Circuit Application	Signal

Industry Standards

UL Flammability Rating	20mm Flame Test per Standard UL-94
Degree of Protection	IP67, IP6K9K, Not Tested

Packaging Features

Packaging Type	Box
Packaging Quantity	105, 125, 63

Other

Interface Number	DTM04-12P

Reference Number

TE Internal Number	CAT-D485-H342

SEE PRODUCTS ON NEXT PAGE

Products (1 of 5)
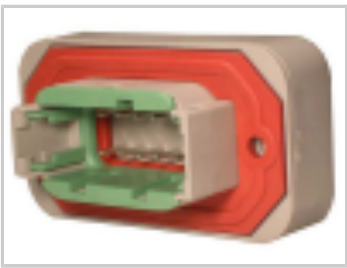
	HDR, 12P, GRY, ST, NI/CU, C	HDR, 24P, BLK, RA EEC, NI/CU, AC	HDR, 24P, BLK, RA EEC, NI/CU, AB	HDR, 12P, GRY, ST, NI/CU, A
TE Model / Part #	DTM15-12PC	DTM1312PA12PCR008	DTM1312PA12PBR008	DTM15-12PA
Number of Positions	12	24	24	12
PCB Mount Orientation	Straight	Right Angle	Right Angle	Straight
Primary Product Color	Gray	Black	Black	Gray
Contact Mating Area Plating Material	Nickel (Ni)	Nickel (Ni)	Nickel (Ni)	Nickel (Ni)
Connector Mounting Type	Board Mount, Fixing Screw, Panel Mount	Board Mount, Fixing Screw	Board Mount, Fixing Screw	Board Mount, Fixing Screw, Panel Mount
Connector Code	C	AC	AB	A
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DT,DEUTSCH DTM

*EU RoHS Directive 2011/65/EU

These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

**EU ELV Directive 2000/53/EC

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DEUTSCH DTM HEADERS

	HDR, 24P, BLK, RA EEC, NI/CU, CD	HDR, 24P, BLK, RA EEC, AU/NI/CU, AB	HDR, 12P, GRY, RA, SN/NI/CU, A	HDR, 12P, GRY, RA, AU/NI/CU, A
TE Model / Part #	DTM1312PC12PDR008	DTM1312PA12PBGR01	DTM13-12PA	DTM13-12PA-G003
Number of Positions	24	24	12	12
PCB Mount Orientation	Right Angle	Right Angle	Right Angle	Right Angle
Primary Product Color	Black	Black	Gray	Gray
Contact Mating Area Plating Material	Nickel (Ni)	Gold (Au)	Tin (Sn)	Gold (Au)
Connector Mounting Type	Board Mount, Fixing Screw	Board Mount, Fixing Screw	Board Mount, Fixing Screw	Board Mount, Fixing Screw, Panel Mount
Connector Code	CD	AB	A	A
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DT,DEUTSCH DTM

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DEUTSCH DTM HEADERS

	HDR, 12P, GRY, ST, NI/CU, B	DTM13-12PA-R019, HDR, 12P, BLK,RA,NI/CU,A	HDR, 12P, GRY, RA, AU/NI /CU, B	HDR, 12P, GRY, ST, AU/NI /CU, A
TE Model / Part #	DTM15-12PB	2333580-1	DTM13-12PB-G003	DTM15-12PA-G003
Number of Positions	12	12	12	12
PCB Mount Orientation	Straight	Right Angle	Right Angle	Straight
Primary Product Color	Gray	Black	Gray	Gray
Contact Mating Area Plating Material	Nickel (Ni)	Nickel (Ni)	Gold (Au)	Gold (Au)
Connector Mounting Type	Board Mount, Fixing Screw, Panel Mount	Board Mount, Fixing Screw	Board Mount, Fixing Screw, Panel Mount	Board Mount, Fixing Screw, Panel Mount
Connector Code	B	A	B	A
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant with Exemptions	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant with Exemptions	EU ELV Compliant	EU ELV Compliant
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DTM	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DT,DEUTSCH DTM

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DEUTSCH DTM HEADERS

	HDR, 48P, BLK, ST, NI/CU, ABCD	DTM13-12PA-R020, HDR, 12P, BLK,RA,NI/CU,A	DTM13-12PB-R019, HDR, 12P, BLK,RA,NI/CU,B	DTM13-12PB-R020, HDR, 12P, BLK,RA,NI/CU,B
TE Model / Part #	DTMF15-48P-B026	2333581-1	2333580-2	2333581-2
Number of Positions	48	12	12	12
PCB Mount Orientation	Straight	Right Angle	Right Angle	Right Angle
Primary Product Color	Black	Black	Black	Black
Contact Mating Area Plating Material	Nickel (Ni)	Nickel (Ni)	Nickel (Ni)	Nickel (Ni)
Connector Mounting Type	Board Mount, Fixing Screw	Board Mount, Fixing Screw	Board Mount, Fixing Screw	Board Mount, Fixing Screw
Connector Code	ABCD	A	B	B
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant with Exemptions	EU RoHS Compliant with Exemptions	EU RoHS Compliant with Exemptions
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant with Exemptions	EU ELV Compliant with Exemptions	EU ELV Compliant with Exemptions
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DTM	DEUTSCH DTM	DEUTSCH DTM

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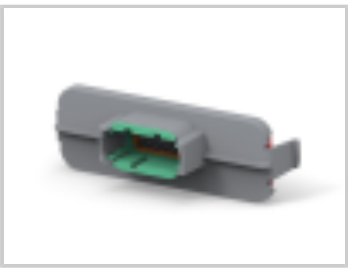
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DEUTSCH DTM HEADERS

Products (5 of 5)

	HDR, 24P, BLK, RA EEC, AU /NI/CU, CD	HDR, 12P, BLK, RA EEC, NI /CU, C	DTM13-12PC-R019, HDR, 12P, BLK,RA,NI/CU,C	DTM13-12PC-R020, HDR, 12P, BLK,RA,NI/CU,C
TE Model / Part #	DTM1312PC12PDGR01	DTM13-12PC-R008	2333580-3	2333581-3
Number of Positions	24	12	12	12
PCB Mount Orientation	Right Angle	Right Angle	Right Angle	Right Angle
Primary Product Color	Black	Black	Black	Black
Contact Mating Area Plating Material	Gold (Au)	Nickel (Ni)	Nickel (Ni)	Nickel (Ni)
Connector Mounting Type	Board Mount, Fixing Screw	Board Mount, Fixing Screw	Board Mount, Fixing Screw	Board Mount, Fixing Screw
Connector Code	CD	C	C	C
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant with Exemptions	EU RoHS Compliant with Exemptions
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant with Exemptions	EU ELV Compliant with Exemptions
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DT,DEUTSCH DTM	DEUTSCH DTM	DEUTSCH DTM

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Related Materials

Flipbook Catalog

Industrial & Commercial Transportation - Terminals and Connectors (English)

TE's Industrial & Commercial Transportation Terminals and Connectors flipbook catalog features AMPSEAL, AMPSEAL 16, Circular DIN, DEUTSCH, HDSCS, LEAVYSEAL, and Superseal 1.0 connectors, contacts, tools, and accessories.

English

Product Specifications

DEUTSCH DTM Connectors Product Specifications (English)

This specification covers performance tests and quality requirements for DEUTSCH DTM connectors Series Connector System.

English

Test Specifications

DEUTSCH DTM Connectors Test Specifications (English)
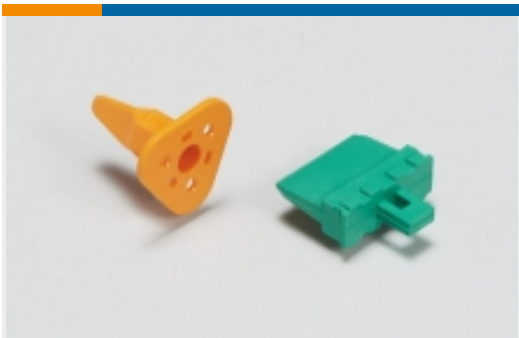
This report summarizes the results of in-house qualification testing of DEUTSCH DTM electrical connectors.

English

Connector Selector

Connector Selector (English)

The Connector Selector is a reference guide to TE Connectivity's (TE) Industrial & Commercial Transportation electrical connectors.
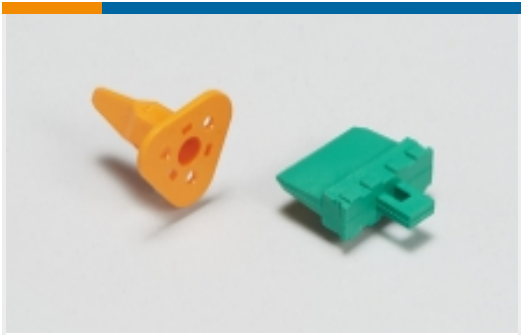
English

Also in the Series | DEUTSCH DT

Automotive Connector Caps & Covers (71)

Automotive Connector Locks & Position Assurance(62)

Automotive Headers(83)

Automotive Housings(563)

Automotive Seals & Cavity Plugs(4)

Insertion & Extraction Tools(7)

Other Automotive Connector Accessories(13)

Also in the Series | DEUTSCH DTM

Automotive Connector Caps & Covers (16)

Automotive Connector Locks & Position Assurance(15)

Automotive Headers(29)

Automotive Housings(89)

Insertion & Extraction Tools(3)

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