

Printed Circuit Board Connectors

Printed Circuit Board Overview

Printed circuit board or PCB connectors are heavy duty environmentally sealed connectors designed for wire-to-circuit board connections. TE Connectivity Industrial & Commercial Transportation's connectors are built to maintain the integrity and continuity of data and power signals in harsh environments. Developed and designed for heavy duty electronically equipped vehicles, TE's printed circuit board connector bodies will withstand dust, dirt, moisture, and vibration.

Available in a variety of styles from several different connector families, TE's printed circuit board connectors cover a range of pin counts from 2 to 76 and wire gauges from 10 to 22. Many of the connectors are available in straight, 90°, or solder pot options.



PRINTED CIRCUIT BOARD CONNECTOR OPTIONS

Product Line	Cavity Arrangements	Mating Connector Wire Size
AMPSEAL	8, 14, 23, 35	16-20 AWG
Circular DIN	2, 3, 4	2.50-.20 mm ²
DRC Series	24, 40, 50, 60, 70, 76	14-22 AWG
DT Series	2, 3, 4, 6, 8, 12	14-20 AWG
DTM Series	8, 12, 48 (flangeless)	16-22 AWG
DTP Series	4	10-14 AWG
HD10 Series	6,9	14-20 AWG
LEAVYSEAL	21, 39, 62, 92	6.0-.20 mm ²
STRIKE	32	14-22 AWG
Superseal 1.0	26, 34, 60	1.25-.50 mm ²
EEC Enclosure and Flange Receptacle	12, 24, 36, 48 (DT series headers)	14-20 AWG
	12, 24 (DTM series headers)	16-22 AWG

Notes: DT series has flangeless options. Some arrangements of the DT and DTM series are available with A, B, C, and D keying options.

Note

See individual product line sections for part numbering system.

Printed Circuit Board Connectors

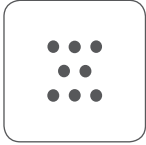
AMPSEAL CONNECTORS 90° OR STRAIGHT

Materials

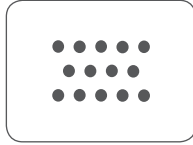
Cover: Glass filled PBT
Wire Seal: Silicone rubber
Contacts: Tin or gold plated brass

Mating Plugs

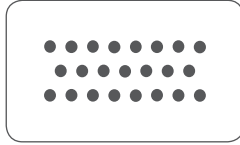
8 Position: 776286-*
14 Position: 776273-*
23 Position: 770680-*
35 Position: 776164-*



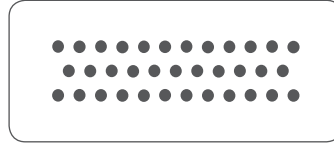
8 Positions
8 size 1.3 mm



14 Positions
14 size 1.3 mm



23 Positions
23 size 1.3 mm



35 Positions
35 size 1.3 mm

Note

See pages 11-20 for comprehensive AMPSEAL product information.

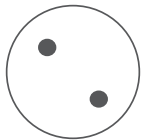
CIRCULAR DIN CONNECTORS STRAIGHT

Materials

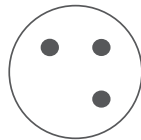
Housing: Glass filled PBT & PA
Flange Seal: Silicone rubber
Contacts: CuZn, tin plated
CuZn, gold plated

Mating Plugs

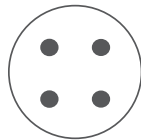
2 Position: 1-967325-3, 1-968968-3 (secondary locking)
3 Position: 1-967325-2, 1-968968-2 (secondary locking)
4 Position: 1-967325-1, 1-968968-1 (secondary locking)



2 Positions
2 size 2.5 mm



3 Positions
3 size 2.5 mm



4 Positions
4 size 2.5 mm

Note

See pages 35-44 for comprehensive Circular DIN product information.

DRC10 SERIES STRAIGHT

Materials

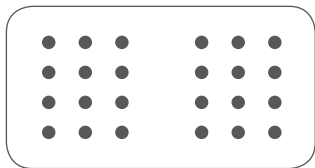
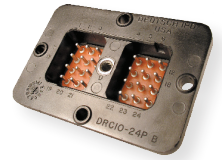
Housing: Glass filled PA and PPS
Grommet: Silicone rubber
Receptacle Threaded Insert:
Stainless steel/brass
Contacts: Molded-in copper alloy,
tin plated solder pot standard
(gold optional - see
modifications)

Mating Plugs

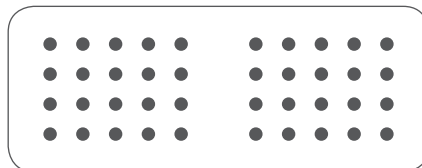
24 Pin: DRC16-24S*
40 Pin: DRC16-40S

Modifications

A004: Tin plated PCB pins
AG02: Some terminals
are gold plated



DRC10-24P*
24 size 16



DRC10-40P*
40 size 16

DRC13 SERIES 90°

Materials

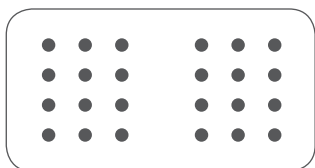
Housing: Glass filled PA and PPS
Receptacle Threaded Insert:
Stainless steel/brass
Contacts: Molded-in copper alloy,
tin plated PCB pins standard (gold
optional - see modifications)
Mounting Seal: Silicone rubber

Mating Plugs

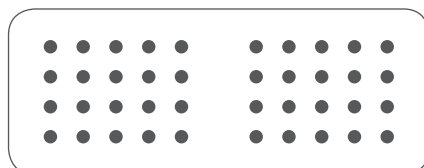
24 Pin: DRC16-24S*
40 Pin: DRC18-40S*
70 Pin: DRC16-70S*

Modifications

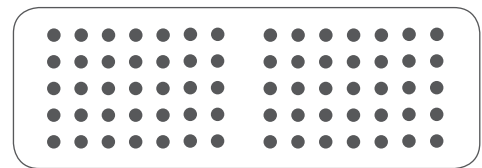
C023: 5mm² threaded insert
mounting holes
G002: Only outside terminal rows
are gold plated
N012: One piece connector design



DRC13-24P*
24 size 16



DRC13-40P*
40 size 16



DRC13-70P*
70 size 16

Printed Circuit Board Connectors

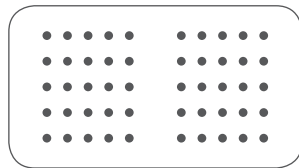
DRC20/22 SERIES STRAIGHT

Materials

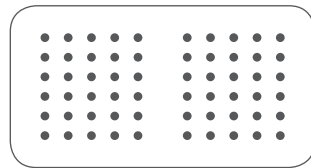
Housing: Glass filled PA and PPS
 Grommet: Silicone rubber
 Receptacle Threaded Insert:
 Stainless steel/brass
 Contacts: Molded-in copper alloy,
 gold plated mating side, tin plated
 PCB side (size 12 contacts are tin
 plated on mating and PCB sides)
 Mounting Seal: Silicone rubber

Mating Plugs

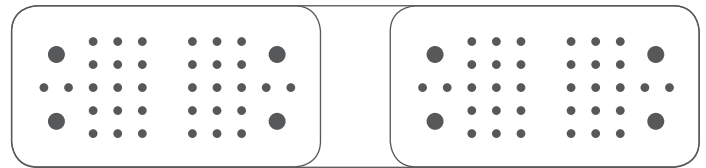
50 Pin: DRC26-50S**
 60 Pin: DRC26-60S**
 76 Pin: (2) DRC26-38S**



DRC2*-50P*
50 size 20



DRC20-60P*
60 size 20



DRC20-76P****
68 size 20, 8 size 12

DRC23 SERIES 90°

Materials

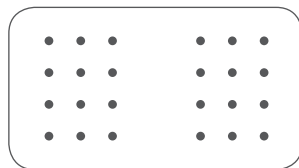
Housing: Glass filled PA and PPS
 Grommet: Silicone rubber
 Receptacle Threaded Insert:
 Stainless steel/brass
 Contacts: Molded-in copper alloy,
 gold plated PCB pins standard
 (tin optional)
 Mounting Seal: Silicone rubber

Mating Plugs

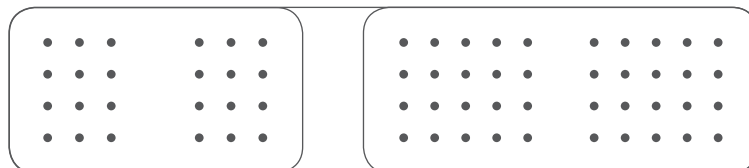
24 Pin: DRC26-24S*
 40 Pin: DRC26-40S*
 64 Pin: DRC26-24S*, DRC26-40S*

Modifications

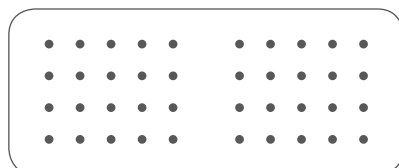
N010: Custom mount
 N012: One piece connector design



DRC2*-24**
24 size 20



DRC2*-64**
64 size 20



DRC2*-40**
40 size 20

Note

See pages 99-108 for comprehensive
 DRC series product information.

Printed Circuit Board Connectors

DT13/15 SERIES 90° OR STRAIGHT

Materials

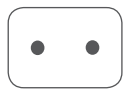
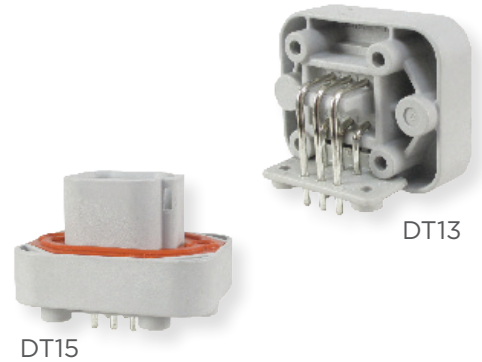
Housing: Glass filled PA
 Contacts: Molded-in copper alloy, nickel plated mating side, tin plated PCB side (gold plating optional - contact your representative)
 Mounting Seal: Silicone rubber

Mating Plugs

2 Pin: DT06-2S
 3 Pin: DT06-3S
 4 Pin: DT06-4S
 6 Pin: DT06-6S
 8 Pin: DT06-08S*
 12 Pin: DT06-12S*

Modifications

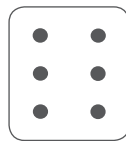
B016: Extended shell and additional keys
 G003: Gold plated pins



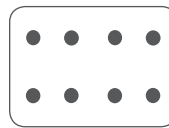
DT1*-2P
2 size 16



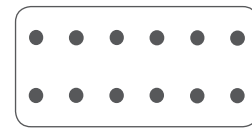
DT1*-4P
4 size 16



DT1*-6P
6 size 16



DT1*-08P*
8 size 16
A, B, C, D



DT1*-12P*
12 size 16
A, B, C, D

Note

Camcar thread forming screws are recommended. See drawing.

DTF13 SERIES FLANGELESS 90°

Materials

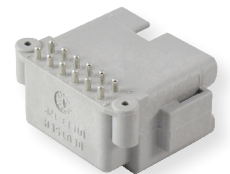
Housing: Glass filled PA
 Contacts: Molded-in copper alloy, tin plated PCB side (gold plating optional - contact your representative)

Mating Plugs

2 Pin: DT06-2S
 3 Pin: DT06-3S
 4 Pin: DT06-4S
 6 Pin: DT06-6S
 12 Pin: DT06-12S*

Modifications

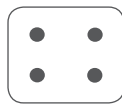
G003: Gold plated pins



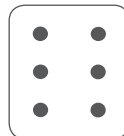
DTF13-2P
2 size 16



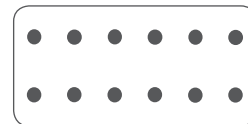
DTF13-3P
3 size 16



DTF13-4P
4 size 16



DTF13-6P
6 size 16



DTF13-12P*
12 size 16
A, B, C, D

Printed Circuit Board Connectors

DTF15 SERIES FLANGELESS STRAIGHT

Materials

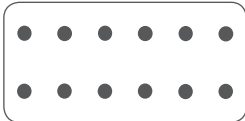
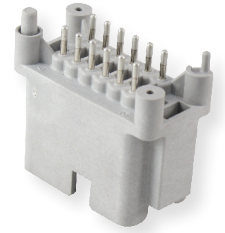
Housing: Glass filled PA
Contacts: Molded-in copper alloy, tin plated PCB side (gold plating optional - contact your representative)

Mating Plugs

12 Pin: DT06-12S*

Modifications

G003: Gold plated pins



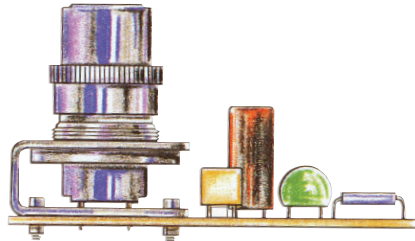
DTF15-12P*

12 size 16

A, B, C, D

helpful hint

By fixing the connectors to the board prior to soldering, pressure can be greatly reduced at the solder joint.



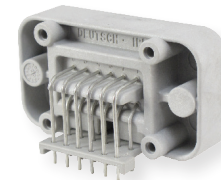
DTM13/15 SERIES 90° OR STRAIGHT

Materials

Housing: Glass filled PA
Contacts: Molded-in copper alloy, tin plated PCB side (gold plating optional - contact your representative)
Mounting Seal: Silicone rubber

Mating Plugs

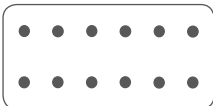
12 Pin: DTM06-12S*



DTM13



DTM15



DTM1*-12P*

12 size 20

A, B, C, D

Note

See pages 109-132 for comprehensive DT Family product information.

Printed Circuit Board Connectors

DTMF15 SERIES STRAIGHT

Materials

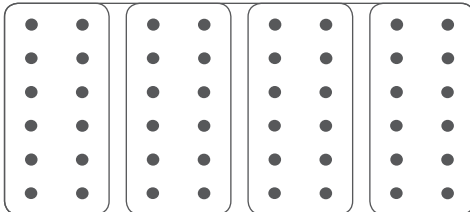
Housing: Glass filled PA
Contacts: Molded-in copper alloy, tin plated (gold plating optional - contact your representative)

Mating Plugs

12 Pin: (4) DTM06-12S*

Modifications

B026: Alternate keying position



DTMF15-48P
(4) 12 size 20

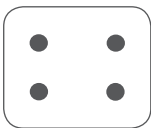
DTP10/13/15 SERIES 90° OR STRAIGHT

Materials

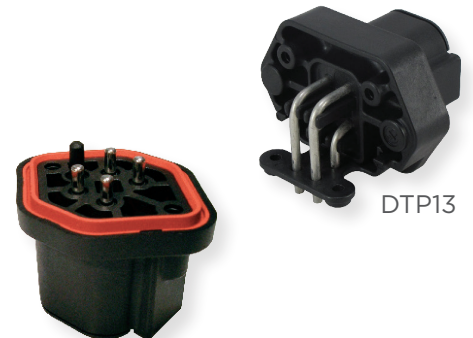
Housing: Glass filled PA
Contacts: Molded-in copper alloy, tin plated
Mounting Seal: Silicone rubber

Mating Plugs

4 Pin: (4) DTP06-4S



DTP1*-4P
4 size 12



DTP10

DTP13

HD10 SERIES STRAIGHT

Materials

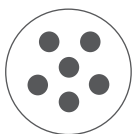
Housing: Glass filled PA
Contacts: Molded-in copper alloy, nickel plated
Mounting Seal: Standard
o-rings may be used

Mating Plugs

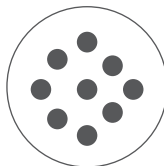
6 Pin: HD16-6-96S
9 Pin: HD16-9-96S

Modifications

N005: Straight reduced diameter pins supplied as standard



HD10-6-96P-N005
6 size 16



HD10-9-96P-N005
9 size 16

Printed Circuit Board Connectors

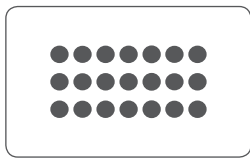
LEAVYSEAL CONNECTORS 90° OR STRAIGHT

Materials

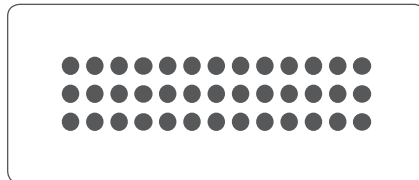
Housing: Glass filled PBT
Contacts: CuSn, silver plated

Mating Plugs

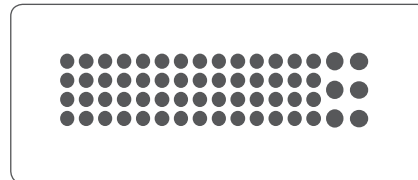
21 Pin: 1-1534127-1, 1-2208688-1 (VO rated material)
39 Pin: 5-1718321-3, 5-2208684-3 (VO rated material)
62 Pin: 1-1418883-1 (A key), 2-1418883-1 (B key)
92 Pin: 1-703998-1 (NW 26 wire exit),
3-1703998-1 (NW 29 wire exit)



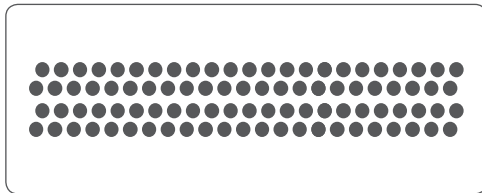
21 Positions
21 size 2.8



39 Positions
39 size 2.8



62 Positions
56 size 1.5
6 size 2.8



92 Positions
92 size 1.5

Note

See pages 63-78 for comprehensive LEAVYSEAL product information.

STRIKE13/15 SERIES 90° OR STRAIGHT

Materials

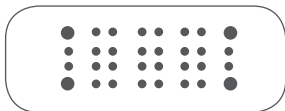
Housing: Glass filled PBT
Contacts: Molded-in copper alloy, tin plated (gold plating optional - contact your representative)

Mating Plugs

32 Pin: SRK06-MD*-32A-001

Modifications

G003: Gold plated pins



SRK1*-MD*-32A-001-****
4 Size 16
28 Size 20

Note

See pages 161-168 for comprehensive STRIKE series product information.

Printed Circuit Board Connectors

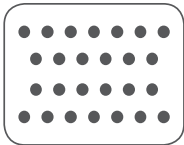
SUPERSEAL 1.0 MM CONNECTORS 90° OR STRAIGHT

Materials

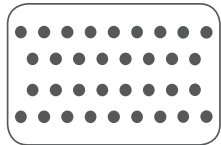
Housing: Thermoplastic
 Contacts: Gold over Ni -
 mating pins, tin-lead over
 Ni - soldering pins

Mating Plugs

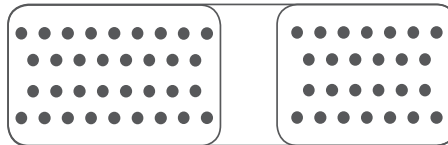
26 Pin: 3-1437290-7
 34 Pin: 4-1437290-0
 60 Pin: (1) 3-1437290-7 (26P), (1) 4-1437290-0 (34P)



26 Positions
 26 size 1.0 mm



34 Positions
 34 size 1.0 mm



60 Positions
 60 size 1.0 mm

Note

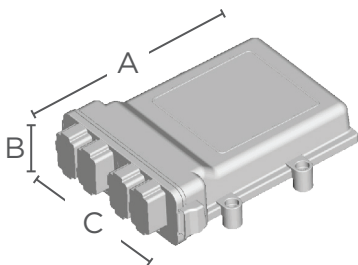
See pages 79-84 for comprehensive Superseal 1.0 product information.

Printed Circuit Board Enclosures and Headers

Compact circuit board enclosures that accept snap-in headers are available. The enclosure features a through hole mounting flange on each side, as well as optional venting. Designed with space to accommodate one or more DT or DTM series interfaces, the headers feature 90° pins. A radial flange seal provides environmental sealing to the enclosure. The headers mate with the DT and DTM standard plugs.



DT SERIES ENCLOSURE WITH HEADER DIMENSIONS



DT Series Enclosure with Header

Overall Length A	Overall Height B	Overall Width C
7.93 (201.30)	2.15 (54.63)	6.30 (160.00)

Dimensions are for reference only

Printed Circuit Board Connectors

DT SERIES HEADER CONNECTOR

Materials

Contacts: Molded-in tin
(gold plating optional - contact
your representative)

Mating Plugs

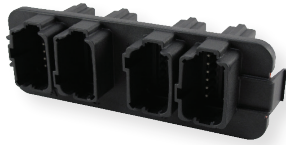
12 Pin: DT06-12S*
24 Pin: (2) DT06-12S*
36 Pin: (3) DT06-12S*

Modifications

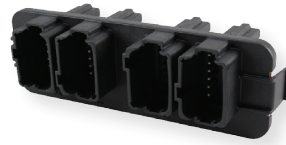
GR02: DT Series snap-in header with
gold plated pins
R015: DT Series snap-in header



DT13-12PA-****
12 size 16
A



DT13-24PAB-****
(2) 12 size 16
A, B



DT13-36PABC-****
(3) 12 size 16
A, B, C



DT13-48PABCD-****
(4) 12 size 16
A, B, C, D

Note

Keying position of receptacle
must match keying position
of mating plug(s).

DT SERIES PCB ENCLOSURE

Materials

Housing: Thermoplastic

Board Size

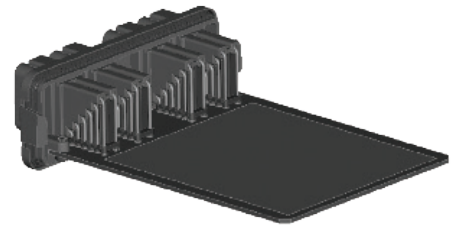
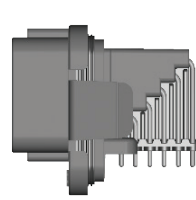
5" x 6.50"

Venting

A: With vent hole
B: Without vent hole

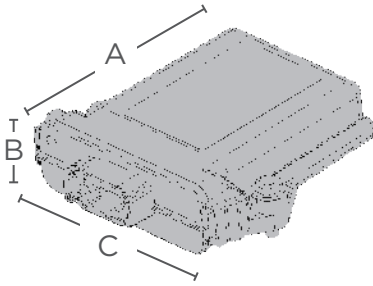


EEC-5X650*



Printed Circuit Board Connectors

DTM SERIES ENCLOSURE WITH HEADER DIMENSIONS



DTM Series Enclosure with Header

Overall Length A	Overall Height B	Overall Width C
5.24 (133.03)	1.42 (36.00)	4.68 (118.80)

Dimensions are for reference only

DTM SERIES HEADER CONNECTOR

Materials

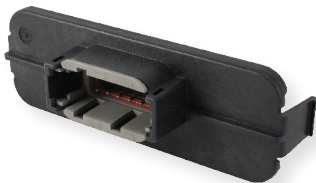
Contacts: Molded-in nickel
mating side, tin plated PCB side

Mating Plugs

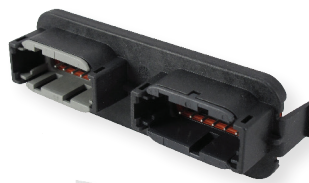
12 Pin: DTM06-12S*
24 Pin: (2) DTM06-12S*

Modifications

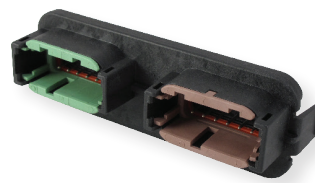
GR01: DTM Series snap-in
header with gold plated pins



DTM13-12P*-.****
12 size 20
A, B, C, D



DTM13-12PA-12PB-****
(2) 12 size 20
A, B



DTM13-12PC-12PD-****
(2) 12 size 20
C, D

Printed Circuit Board Connectors

DTM SERIES PCB ENCLOSURE

Materials

Housing: Thermoplastic

Board Size

3.25" x 4"

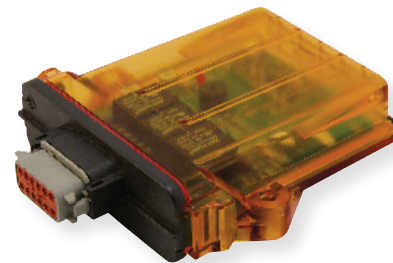
Venting

A: With vent hole

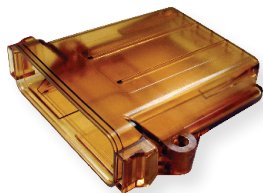
B: Without vent hole

Modifications

E016: Molded in clear
Ultem® material



EEC-325X4*



EEC-325X4*-E016