



DEUTSCH MIL-DTL-38999 SERIES III CONNECTORS

RUGGED, HARSH ENVIRONMENT
SUBMINIATURE CONNECTORS

QUICK REFERENCE GUIDE

Wide Range

- Mil spec, commercial, and composite
- Full line of finishes, including black zinc nickel and PTFE nickel

High Performance

- Environmentally sealed

MIL-DTL-38999 Series III Connectors

| | |
|-------------------------------------|--|
| Coupling Mechanism | Threaded, 360° turn |
| Shell Materials | Stainless steel Aluminum Composite |
| Features | Scoop proof Environmentally sealed Hermetic versions Filter versions Spring fingers for EMI control |
| Shell Platings | Olive drab cadmium Passivated Electroless nickel Electrodeposited nickel Nickel PTFE Black zinc-nickel |
| No. of Contact Sizes, Std. | 23, 22, 20, 16, 12, 10, 8 |
| Shell Sizes | 9, 11, 13, 15, 17, 19, 21, 23, 25 |
| No. of Signal Contacts, Max. | 187 |
| Contact Type | AS39029 |
| Contact Styles | Crimp Solder cup or eyelet PCB tail |
| Operating Temperatures | -65°C to +200°C -65°C to +175°C -65°C to +150°C (Depends on shell finish) |
| Durability (Mating Cycles) | 500 (Higher durability versions available) |
| Standard Configurations | |
| Plugs | Straight, with EMI spring fingers Lanyard release |
| Receptacles | Box mounting, both front and rear panel mounting Wall mounting, both front and rear panel mounting Jam nut, rear panel mounting Solder mount Weld mount Through-hole bulkhead |

TE Components . . . TE Technology . . . TE Know-how . . .
AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Polamco | Raychem | Rochester | DEUTSCH
SEACON Phoenix | L.L. Rowe | Phoenix Optix | SEACON

Get your product to market faster with a smarter, better solution.

DEUTSCH 38999 Series III Connectors

Aluminum • Stainless Steel • Composite

| | Commercial Composite | ACT | 26 | M | D | 35 | P | N | |
|---|-----------------------------------|-----------------|--|---|----|----|---|---|--|
| | Commercial Al/SS | DTS | 26 | F | 15 | 35 | P | N | |
| | Military | D38999 | /26 | F | D | 35 | P | N | |
| Commercial Composite | Commercial Alum./Stainless | Military | Description | | | | | | |
| RANGE | | | | | | | | | |
| ACT | DTS | D38999 | | | | | | | |
| STYLE | | | | | | | | | |
| 20 | 20 | /20 | Square Flange Receptacle | | | | | | |
| 24 | 24 | /24 | Jam Nut Receptacle | | | | | | |
| 26 | 26 | /26 | Straight Plug | | | | | | |
| — | 20 | /21 | Hermetic Square Flange Receptacle | | | | | | |
| — | 24 | /23 | Hermetic Jam Nut Receptacle | | | | | | |
| — | 21 | /25 | Hermetic Solder Flange | | | | | | |
| — | 23 | /27 | Hermetic Weld Flange | | | | | | |
| FINISH | | | | | | | | | |
| ALUMINUM SHELL | | | | | | | | | |
| — | F | F | Electroless Nickel Plated (48-hr. Salt Spray) | | | | | | |
| — | G | G | Space-Grade Electroless Nickel (48-hr. Salt Spray) | | | | | | |
| — | T | T | Nickel PTFE (500-hr. Salt Spray) | | | | | | |
| — | W | W | Olive Drab Cadmium (500-hr. Salt Spray) | | | | | | |
| — | Z | Z | Black Zinc Nickel (500-hr. Salt Spray) | | | | | | |
| COMPOSITE SHELL | | | | | | | | | |
| M | — | M | Electroless Nickel Plated (2000-hr. Salt Spray) | | | | | | |
| J | — | J | Olive Drab Cadmium (2000-hr. Salt Spray) | | | | | | |
| STAINLESS STEEL SHELL | | | | | | | | | |
| — | K | K | Corrosion-Resistant S.S. - Firewall (500-hr. Salt Spray) | | | | | | |
| — | S | S | Nickel Plated (500-hr. Salt Spray) | | | | | | |
| — | L | L | Electrodeposited Nickel (48-hr. Salt Spray) | | | | | | |
| HERMETIC | | | | | | | | | |
| — | Y | Y | Stainless Steel, Passivated | | | | | | |
| — | N | N | Stainless Steel, Nickel Plated | | | | | | |
| — | H | H | Space Grade | | | | | | |
| SHELL SIZES | | | | | | | | | |
| 9 (A), 11 (B), 13 (C), 15 (D), 17 (E), 19 (F), 21 (G), 23 (H), 25 (J) | | | Numbers = DTS Commercial; (Letters) = Military/ACT Commercial | | | | | | |
| INSERT ARRANGEMENTS | | | See Insert Arrangements Table | | | | | | |
| CONTACTS | | | | | | | | | |
| P, A, H, S, B, J | | | P = Pin, A = Less Pin, H = 1500-Cycle Pin, S = Socket, B = Less Socket, J = 1500-Cycle Socket | | | | | | |
| CONTACTS FOR HERMETIC CONNECTORS | | | | | | | | | |
| C, D, X, Z | | | C = PC Tail Pin, D = PC Tail Socket X = Eyelet Pin, Z = Eyelet Socket | | | | | | |
| KEYING | | | | | | | | | |
| N, A, B, C, D, E | | | N = Normal | | | | | | |



Jam Nut



Plug



MIL-SPEC



Square Flange Receptacle



PCB Type



Lanyard

Insert Arrangements



| Insert | | Contact Size/Quantity | | | | | | | | | | | Includes K Class | Uses 38999/62-8* Boots | Inactive: Superseded by |
|----------------|-----------------------------|-----------------------|--------|---------|-----------|---------|----|----|----|----|-----|----|------------------|------------------------|-------------------------|
| DTS Commercial | Military and Commercial ACT | 8 Twinax | 8 Coax | 8 Power | 12 Twinax | 12 Coax | 10 | 12 | 16 | 20 | 22D | 23 | | | |
| 09-07 | A7 (A07) | | | | | | | | | | 7 | | | | |
| 09-23 | A23 | | | | | | | | | | | 9 | | | |
| 09-35 | A35 | | | | | | | | | | 6 | | ✓ | | |
| 09-98 | A98 | | | | | | | | | 3 | | | ✓ | | |
| 11-02 | B2 (B02) | | | | | | | | 2 | | | | | | |
| 11-04 | B4 (B04) | | | | | | | | | 4 | | | | | |
| 11-05 | B5 (B05) | | | | | | | | | 5 | | | | | |
| 11-23 | B23 | | | | | | | | | | | 19 | | | |
| 11-35 | B35 | | | | | | | | | | 13 | | ✓ | | |
| 11-98 | B98 | | | | | | | | | 6 | | | ✓ | | |
| 11-99 | B99 | | | | | | | | | 7 | | | ✓ | | |
| 13-04 | C4 (C04) | | | | | | | | 4 | | | | | | |
| 13-08 | C8 (C08) | | | | | | | | | 8 | | | ✓ | | |
| 13-23 | C23 | | | | | | | | | | | 32 | | | |
| 13-35 | C35 | | | | | | | | | | 22 | | ✓ | | |
| 13-98 | C98 | | | | | | | | | 10 | | | ✓ | | |
| 15-05 | D5 (D05) | | | | | | | | 5 | | | | ✓ | | |
| 15-15 | D15 | | | | | | | | 1 | 14 | | | | | |
| 15-18 | D18 | | | | | | | | | 18 | | | ✓ | | |
| 15-19 | D19 | | | | | | | | | 19 | | | ✓ | | |
| 15-23 | D23 | | | | | | | | | | | 55 | | | |
| 15-26 | D-26 | | | | | | | | 2 | | 24 | | | | |
| 15-35 | D35 | | | | | | | | | | 37 | | ✓ | | |
| 15-97 | D97 | | | | | | | | 4 | 8 | | | ✓ | | |
| 17-02 | E2 (E02) | 1 | | | | | | | | | 38 | | | | 17-03 |
| 17-03 | E3 (E03) | 1 | | | | | | | | | 38 | | | ✓ | |
| 17-06 | E6 (E06) | | | | | | | 6 | | | | | ✓ | | |
| 17-08 | E8 (E08) | | | | | | | | 8 | | | | ✓ | | |
| 17-11 | E11 | | | | 2 | 1 | | | | 8 | | | | | |
| 17-19 | E19 | | | | | | | | 4 | 11 | 4 | | | | |
| 17-20 | E20 | | | | | | | 4 | | | 16 | | | | |
| 17-22 | E22 | 2 | | | | | | 2 | | | | | | | |
| 17-23 | E23 | | | | | | | | | | | 73 | | | |
| 17-24 | E24 | | | 2 | | | | | | | 22 | | | | |
| 17-26 | E26 | | | | | | | | | 26 | | | ✓ | | |
| 17-35 | E35 | | | | | | | | | | 55 | | ✓ | | |
| 17-99 | E99 | | | | | | | | 2 | 21 | | | ✓ | | |
| 19-11 | F11 | | | | | | | | 11 | | | | ✓ | | |
| 19-18 | F18 | 4 | | | | | | | | | 14 | | | | 19-19 |
| 19-19 | F19 | 4 | | | | | | | | | 14 | | | ✓ | |
| 19-23 | E23 | | | | | | | | | | | 88 | | | |
| 19-28 | F28 | | | | | | | | 2 | 26 | | | | | |



| Insert | | Contact Size/Quantity | | | | | | | | | | | | Includes K Class | Uses 38999/62-8* Boots | Inactive: Superseded by |
|----------------|-----------------------------|-----------------------|--------|---------|------------|---------|----|----|----|----|-----|-----|--|------------------|------------------------|-------------------------|
| DTS Commercial | Military and Commercial ACT | 8 Twirmax | 8 Coax | 8 Power | 12 Twirmax | 12 Coax | 10 | 12 | 16 | 20 | 22D | 23 | | | | |
| 19-32 | F32 | | | | | | | | | 32 | | | | ✓ | | |
| 19-35 | F35 | | | | | | | | | | 66 | | | ✓ | | |
| 21-11 | G11 | | | | | | | 11 | | | | | | | | |
| 21-16 | G16 | | | | | | | | 16 | | | | | | | |
| 21-20 | G20 | 2 | | | | | | | | 18 | | | | | | |
| 21-23 | G23 | | | | | | | | | | | 121 | | | | |
| 21-35 | G35 | | | | | | | | | | 79 | | | ✓ | | |
| 21-39 | G39 | | | | | | | | 2 | 37 | | | | ✓ | | |
| 21-41 | G41 | | | | | | | | | 41 | | | | ✓ | | |
| 21-48 | G48 | | | 4 | | | | | | | | | | | | |
| 21-75 | G75 | 4 | | | | | | | | | | | | | | 21-76 |
| 21-76 | G76 | 4 | | | | | | | | | | | | | ✓ | |
| 23-06 | H6 (H06) | 6 | | | | | | | | | | | | | | |
| 23-21 | H21 | | | | | | | | 21 | | | | | | | |
| 23-23 | H23 | | | | | | | | | | | 151 | | | | |
| 23-35 | H35 | | | | | | | | | | 100 | | | | | |
| 23-53 | H53 | | | | | | | | | 53 | | | | ✓ | | |
| 23-54 | H54 | | | | | | | 4 | 9 | | 40 | | | | | |
| 23-55 | H55 | | | | | | | | | 55 | | | | | | |
| 23-63 | H63 | | | | | | | 4 | 4 | | 49 | | | | | |
| 25-04 | J4 (J04) | | | | | | | | 8 | 48 | | | | ✓ | | |
| 25-07 | J7 (J07) | 2 | | | | | | | | | 97 | | | | | 25-09 |
| 25-08 | J8 (J08) | 8 | | | | | | | | | | | | | | 25-10 |
| 25-09 | J9 (J09) | 2 | | | | | | | | | 97 | | | | ✓ | |
| 25-10 | J10 | 8 | | | | | | | | | | | | | ✓ | |
| 25-11 | J11 | | | | | | 9 | | | 2 | | | | | | |
| 25-17 | J17 | 6 | | | | | | | | | 36 | | | | | |
| 25-19 | J19 | | | | | | | 19 | | | | | | | | |
| 25-20 | J20 | 3 | | | | 4 | | | 13 | 10 | | | | | | 25-21 |
| 25-21 | J21 | 3 | | | | 4 | | | 13 | 10 | | | | | ✓ | |
| 25-23 | J23 | | | | | | | | | | | 187 | | | | |
| 25-24 | J24 | | | | | | | 12 | 12 | | | | | | | |
| 25-29 | J29 | | | | | | | | 29 | | | | | | | |
| 25-35 | J35 | | | | | | | | | | 128 | | | ✓ | | |
| 25-37 | J37 | | | | | | | | 37 | | | | | | | |
| 25-43 | J43 | | | | | | | | 20 | 23 | | | | | | |
| 25-46 | J46 | | 2 | | | | | | 4 | 40 | | | | | | 25-47 |
| 25-47 | J47 | | 2 | | | | | | 4 | 40 | | | | | ✓ | |
| 25-61 | J61 | | | | | | | | | 61 | | | | ✓ | | |
| 25-90 | J90 | 2 | | | | | | | 4 | 40 | | | | | | 25-91 |
| 25-91 | J91 | 2 | | | | | | | 4 | 40 | | | | | ✓ | |

Blue shaded entries are not Mil Spec.
Green shading indicates high-density inserts.

For More Information

TE Technical Support Center

| | |
|----------------|--------------------|
| North America | +1 800 522 6752 |
| Asia Pacific | +86 0 400 820 6015 |
| Austria | +43 1 905 601 228 |
| Baltic Regions | +46 8 5072 5000 |
| Benelux | +31 73 6246 999 |
| Czech Republic | +420 800 701 462 |
| France | +33 1 34 20 86 86 |
| Germany | +49 6251 133 1999 |
| Hungary | +36 809 874 04 |
| Italy | +39 011 401 2632 |
| Nordic | +46 8 5072 5000 |
| Poland | +48 800 702 309 |
| Russia | +7495 790 790 2 |
| Spain/Portugal | +34 93 2910366 |
| Switzerland | +41 52 633 66 26 |
| United Kingdom | +44 800 267 666 |

Follow us on Twitter for all the latest product news
@TEConnectivity, and on Facebook, TEConnectivity.

te.com/38999

© 2015 TE Connectivity Ltd. family of companies. All Rights Reserved.

1-1773860-8 ADM/RRD 1M 10/2015

DEUTSCH, TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies.

Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information herein, nothing herein constitutes any guarantee that such information is error-free, or any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. The TE entity issuing this publication reserves the right to make any adjustments to the information contained herein at any time without notice. All implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose are expressly disclaimed. The dimensions herein are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice.

Consult TE for the latest dimensions and design specifications.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

[D38999/24MH35BB](#) [D38999/24FH55SE](#) [D38999/26FE35BD](#) [D38999/26FB2JB-LC](#) [D38999/26WD35SE-LC](#)
[D38999/20FH55PD](#) [D38999/26FD18SB](#) [D38999/26MD19JB](#) [D38999/24WF35AE](#) [D38999/26FD19JA](#)
[D38999/24FC4SA](#) [D38999/20WE6SA-LC](#) [D38999/24JF35SB](#) [D38999/24FB5BB](#) [D38999/24MD18AB](#)
[D38999/20FH21AB](#) [D38999/26JF32HA](#) [D38999/26WB99JB](#) [D38999/24FD15PB](#) [D38999/26WH53SC-LC](#)
[D38999/26FD18HC-LC](#) [D38999/24MG11AD](#) [D38999/24WJ24PE](#) [D38999/24FD15HC](#) [D38999/26WJ35HN-LC](#)
[D38999/26WC8AD](#) [D38999/26WB5JD](#) [D38999/24FB2HD](#) [D38999/20WD97AE](#) [D38999/26FB5AB](#)
[D38999/24FG11PB-LC](#) [D38999/20WH35SD-LC](#) [D38999/26WG41HN-LC](#) [D38999/24WG16PN-LC](#) [D38999/24WB5SB-](#)
[LC](#) [D38999/26JJ35BC](#) [D38999/26JJ19AE](#) [D38999/26WD5JC](#) [D38999/20MG35BD](#) [D38999/26FG35HA-LC](#)
[D38999/24WJ43BB](#) [D38999/24WC8PA-LC](#) [D38999/24FE99BN](#) [D38999/26WF32JA-LC](#) [D38999/26WC8SE](#)
[D38999/24WB5PA](#) [D38999/24WH35BA](#) [D38999/20WH53JE-LC](#) [D38999/20WA98PD-LC](#) [D38999/24FB5SC](#)
[D38999/26FE35BC](#) [D38999/26FJ4PC](#) [D38999/26FG35JB](#) [D38999/20FG39AN](#) [D38999/26MJ19BA](#)
[D38999/24WH53PA](#) [D38999/20MJ24PD](#) [D38999/26FA98PD](#) [D38999/20WB98PN-LC](#) [D38999/20WC35AN](#)
[D38999/26FE99SD](#) [D38999/24FD35SN-LC](#) [D38999/20MG39PD](#) [D38999/20JJ35SA](#) [D38999/20WD15PB-LC](#)
[D38999/24WB5PC-LC](#) [D38999/24FF35PE](#) [D38999/20FC8HB](#) [D38999/26FE8HC](#) [D38999/24FF35JB-LC](#)
[D38999/20FD35BD](#) [D38999/20FA35JC](#) [D38999/24WF35BA](#) [D38999/24WF35SD-LC](#) [D38999/20WD5AB](#)
[D38999/24WD19JB](#) [D38999/20FC98SB](#) [D38999/24FD5JC-LC](#) [D38999/26JJ19HN](#) [D38999/26FD18HD](#)
[D38999/24FF11HE](#) [D38999/24WJ43JA-LC](#) [D38999/24JJ61SD](#) [D38999/24JF32HD](#) [D38999/24FB99SB-LC](#)
[D38999/26JJ61AC](#) [D38999/26WJ19PN](#) [D38999/20WA35SB](#) [D38999/26FD15PC-LC](#) [D38999/26WH53SD-LC](#)
[D38999/20WD15PE-LC](#) [D38999/24WD97JE](#) [D38999/26FD97AA](#) [D38999/26MA98AB](#) [D38999/26FD35SC](#)
[D38999/20MH55SE](#) [D38999/26FJ4SB](#) [D38999/20WA35PE-LC](#) [D38999/24WD18HN](#) [D38999/20WC35SE](#)