



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 | | | | | | | | | | 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 Twinax | 8 Coax | 8 Power | 12 Twinax | 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

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