

Connecting Products with People

Conesys MIL-DTL-38999 III



NYK Component Solutions

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NYK Component Solutions are fully approved to AS9100 and AS9120 as a value add assembling distributor for Conesys MIL-DTL-38999 III.

Working with Conesys headquarters in the USA and Conesys Europe, Toulouse, France, NYK Component Solutions have set up an approved assembly facility for MIL-DTL-38999 Series III connectors.

The in-house assembly of MIL-DTL-38999 III will enable NYKCS to supply a full range of MIL-DTL-38999 III assembled from the stock held at the facility.

- Large component stock holding at NYKCS
- Full access to an extensive component stock holding from Conesys
- Shell styles 20, 24 and 26
- 9 shell sizes and 54 inserts
- 3 plating finishes, stocked at NYKCS, Black Zinc Nickel, Cad Olive Drab and Electroless Nickel
- Other plating finishes available

Product features

- Self-locking acme thread 'Quick action coupling system'
- Wall mount receptacle

- Jam nut receptacle
- Straight self-locking RFI plug
- 9 shell sizes
- 54, MIL-STD-1560 insert arrangements
- M39029 contacts in sizes 22D, 20, 16, 12, 10 power and 8 twinax
- Scoop-proof design
- Rear release crimp contact system

Aluminium shells

- Electroless nickel plating
- Olive drab cadmium plating
- Black Zinc Nickel plating
- Anodic finish (available on request for commercial connectors)
- Zinc Cobalt (available on request for commercial connectors)

Other materials

- Stainless Steel, including firewall classes K and S
- Nickel Aluminium Bronze Shells
- Full range of backshells and accessories available

Performance Specifications

Operating temperature range

- Classes W, T, Z, BN and ZC:
-65°C to +175°C (-85°F to +347°F)
- Classes F, K, S and BZ:
-65°C to +200°C (-85°F to +392°F)

Material and finish data

- F - aluminium shell, electroless nickel finish
- K - stainless steel shell, passivated,
- Firewall S - stainless steel shell, electrodeposited nickel, firewall
- T - aluminium shell, nickel fluorocarbon polymer finish
- W - aluminium shell, olive drab cadmium over nickel base
- Z - aluminium shell, black zinc nickel finish
- N - aluminium shell, black nickel finish
- BZ - aluminium nickel bronze shell, standard insert
- ZC - aluminium shell, zinc cobalt finish Corrosion Resistance Military

Environmental

- Classes K, W S and Z withstand 500-hour salt spray
- Class F withstands 48-hour salt spray
- RoHS Classes: BN, BZ, ZC, F, K, T and Z
- 500 mating cycles
- RFI and EMI attenuation meet the requirements of MIL-DTL-38999

- EMI shielding effectiveness tested to method 3008 of MIL-STD-1344
- Environmental seal, meet the altitude-immersion test specified in MIL-DTL-38999

Shell-to-shell conductivity maximum potential drop shall not exceed:

- Class F and S = 1.0 millivolt
- Class W and Z = 2.5 millivolts
- Class K = 10.0 millivolts

Shock and vibration requirements

- Shock pulse of approximate half sine wave of 300 G \pm 15% magnitude with duration of 3 \pm 1 milliseconds applied in three axes.
- High impact shock when mounted as specified in MIL-S-901, grade A, a drop of a 400 lb. Hammer from 1 foot, 3 feet and 5 feet applied to connector in three axes, totalling nine impacts.
- Sine vibration where connector samples with simulated accessory load are subjected to simple harmonic motion from 10 to 2,000 Hz in three mutually perpendicular axes, in 20-minute sweeps, for 12 hours in each axis at velocity of 254 mm/sec from 10-50 Hz, displacement of 1.5 mm from 50-140Hz and acceleration of 60G from 140-2,000Hz.
- Random vibration per MIL-STD-1344, method 2005, test condition V at ambient temperature and test condition VI, Letter 'J' at elevated temperature.



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