Specification Details: **Date: 9/29/2008**

Specification: MIL-DTL-28748
Title: Connectors, Plug and Receptacle, Rectangular, Rack & Panel, Solder Type and Crimp Type Contacts
Federal Supply Class (FSC): 5935
Conventional: Yes
Specification contains quality assurance program: No
MIL-STD-790 Established Reliability & High Reliability: No
MIL-STD-690 Failure Rate Sampling Plans & Procedures: No
Weibull Graded: No
Specification contains space level reliability requirements: No
Specification allows test optimization: No

Contact Information:

DSCC Office of Primary Involvement: Passive Devices Team, DSCC-VQP
Primary DSCC-VQ Contact: 614-692-6608, e-mail: vqp.jf@dla.mil
Secondary DSCC-VQ Contact: 614-692-0619, e-mail: vqp.chief@dla.mil

Notes:

N/A

Part Configuration:

M28748/1-A1AL1A

Basic number of specification sheet	Insert	Shield/Shield clamp location or retaining plate	Shell type and polarizaiton	Jackscrews or guidepins	Contacts
M28748/1-	A	1	A	L	1A

Part Listings:

Supplier: Continental Connector Company
Government Designation: M28748/1-
Insert Designation: 0, A, B, C, D, E, F, G, H, J
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A

Supplier: Winchester Electronics
Government Designation: M28748/1-
Insert Designation: 0, A, B, C, D, E, F, G, H, J
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A

Supplier: Continental Connector Company
Government Designation: M28748/2-
Insert Designation: 0, A, B, C, D, E, F, G, H, J
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A

Supplier: Winchester Electronics
Government Designation: M28748/2-
Insert Designation: 0, A, B, C, D, E, F, G, H, J
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A

Supplier: Continental Connector Company
Government Designation: M28748/3-
Insert Designation: A, B, C, D, E, F, G, H, J
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K

Supplier: Positronic Industries, Inc.
Government Designation: M28748/3-
Insert Designation: B, C, D, E, F, G, H, J, K, L
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7
Jack Screw/Guidepins: 0, F, G, L, S
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K

Supplier: Winchester Electronics
Government Designation: M28748/3-
Insert Designation: 0, B, C, D, E, F, G, H, J, K, L
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K

Supplier: Continental Connector Company
Government Designation: M28748/4-
Insert Designation: A, B, C, D, E, F, G, H, J, K, L
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K

Supplier: Positronic Industries, Inc.
Government Designation: M28748/4-
Insert Designation: B, C, D, E, F, G, H, J, K, L
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7
Jack Screw/Guidepins: 0, F, G, L, S
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K

Supplier: Continental Connector Company
Government Designation: M28748/5-
Insert Designation: A, B, C, D, E, F, G, H, J, K, M, N, P, Q, R, S
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4
Jack Screw/Guidepins: 0, F, G, M, S
Contact: 1A, 1L

Supplier: Winchester Electronics
Government Designation: M28748/5-
Insert Designation: A, B, C, D, E, F, G, H, J, K, M, N, P, Q, R, S
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A, 1L

Supplier: Positronic Industries, Inc.
Government Designation: M28748/6-
Insert Designation: A, B, C, D, E, F
Shell Type/Polarization: 0
Shield/Retaining Plate: 0
Jack Screw/Guidepins: 0, F, G, S
Contact: 1A, 1L

Supplier: Continental Connector Company
Government Designation: M28748/7-
Insert Designation: A, B, C, D, E, F, G, H
Shell Type/Polarization: 0
Shield/Retaining Plate: 0, 1
Jack Screw/Guidepins: 0, E, F, G, H, L, S
Contact: 1A

Supplier: Vishay Dale Electronics, Inc
Government Designation: M28748/7-
Insert Designation: B, C, D, E, F, G, H
Shell Type/Polarization: 0
Shield/Retaining Plate: 0, 1
Jack Screw/Guidepins: 0, E, F, G, L, S
Contact: 1A

Supplier: Continental Connector Company
Government Designation: M28748/8-
Insert Designation: A, B, C, D, E, F, G, H
Shell Type/Polarization: 0
Shield/Retaining Plate: 0, 1
Jack Screw/Guidepins: 0, E, F, G, H, L, S
Contact: 1A

Supplier: Vishay Dale Electronics, Inc
Government Designation: M28748/8-
Insert Designation: B, C, D, E, F, G, H
Shell Type/Polarization: 0
Shield/Retaining Plate: 0, 1
Jack Screw/Guidepins: 0, E, F, G, L, S
Contact: 1A

Supplier: Winchester Electronics
Government Designation: M28748/4-
Insert Designation: 0, B, C, D, E, F, G, H, J, K, L
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K

Supplier: Positronic Industries, Inc.
Government Designation: M28748/5-
Insert Designation: A, B, C, D, E, F
Shell Type/Polarization: 0
Shield/Retaining Plate: 0
Jack Screw/Guidepins: 0, F, G, S
Contact: 1A, 1L

Supplier: Continental Connector Company
Government Designation: M28748/6-
Insert Designation: A, B, C, D, E, F, G, H, J, K, M, N, P, Q, R, S
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4
Jack Screw/Guidepins: 0, F, G, M, S
Contact: 1A, 1L

Supplier: Winchester Electronics
Government Designation: M28748/6-
Insert Designation: A, B, C, D, E, F, G, H, J, K, M, N, P, Q, R, S
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1, 2, 3, 4
Jack Screw/Guidepins: 0, F, G, L, M, S
Contact: 1A, 1L

Supplier: Positronic Industries, Inc.
Government Designation: M28748/7-
Insert Designation: A, B, C, D, E, F, G, H
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1
Jack Screw/Guidepins: F, G, H, L, S
Contact: 1A

Supplier: Winchester Electronics
Government Designation: M28748/7-
Insert Designation: A, B, C, D, E, F, G, H
Shell Type/Polarization: 0
Shield/Retaining Plate: 0
Jack Screw/Guidepins: 0, E, F, G, H, L, S
Contact: 1A

Supplier: Positronic Industries, Inc.
Government Designation: M28748/8-
Insert Designation: A, B, C, D, E, F, G, H
Shell Type/Polarization: 0, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
Shield/Retaining Plate: 0, 1
Jack Screw/Guidepins: F, G, H, L, S
Contact: 1A

Supplier: Delphi Connection Systems
Government Designation: M28748/9
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: A, B, C, D, E, F
Shield/Retaining Plate: 0
Jack Screw/Guidepins: L
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: Delphi Connection Systems
Government Designation: M28748/9
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: G, H, J, K, L, M
Shield/Retaining Plate: 0
Jack Screw/Guidepins: G
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: Delphi Connection Systems
Government Designation: M28748/9
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: N, V, W, X, Y, Z
Shield/Retaining Plate: 0
Jack Screw/Guidepins: O
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: J=Tech, Inc.
Government Designation: M28748/9
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: G, H, J, K, L, M
Shield/Retaining Plate: 0
Jack Screw/Guidepins: G
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: J=Tech, Inc.
Government Designation: M28748/9
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: N, V, W, X, Y, Z
Shield/Retaining Plate: 0
Jack Screw/Guidepins: O
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: Delphi Connection Systems
Government Designation: M28748/10
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: N, V, W, X, Y, Z
Shield/Retaining Plate: 0
Jack Screw/Guidepins: O
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: Delphi Connection Systems
Government Designation: M28748/10
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: P, Q, R, S, T, U
Shield/Retaining Plate: 0
Jack Screw/Guidepins: B
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: J=Tech, Inc.
Government Designation: M28748/10
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: G, H, J, K, L, M
Shield/Retaining Plate: 0
Jack Screw/Guidepins: G
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: Delphi Connection Systems
Government Designation: M28748/9
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: P, Q, R, S, T, U
Shield/Retaining Plate: 0
Jack Screw/Guidepins: B
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: J=Tech, Inc.
Government Designation: M28748/9
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: A, B, C, D, E, F
Shield/Retaining Plate: 0
Jack Screw/Guidepins: L
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: J=Tech, Inc.
Government Designation: M28748/9
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: P, Q, R, S, T, U
Shield/Retaining Plate: 0
Jack Screw/Guidepins: B
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: Delphi Connection Systems
Government Designation: M28748/10
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: A, B, C, D, E, F
Shield/Retaining Plate: 0
Jack Screw/Guidepins: L
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: Delphi Connection Systems
Government Designation: M28748/10
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: G, H, J, K, L, M
Shield/Retaining Plate: 0
Jack Screw/Guidepins: G
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: J=Tech, Inc.
Government Designation: M28748/10
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: A, B, C, D, E, F
Shield/Retaining Plate: 0
Jack Screw/Guidepins: L
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: J=Tech, Inc.
Government Designation: M28748/10
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: P, Q, R, S, T, U
Shield/Retaining Plate: 0
Jack Screw/Guidepins: B
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: J=Tech, Inc.
Government Designation: M28748/10
Insert Designation: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S
Shell Type/Polarization: N, V, W, X, Y, Z
Shield/Retaining Plate: 0
Jack Screw/Guidepins: O
Contact: 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K

Supplier: Positronic Industries, Inc.
Government Designation: M28748/13
Insert Designation: B, C, D, E, F, G, H
Shell Type/Polarization: 0
Shield/Retaining Plate: 0, 1
Jack Screw/Guidepins: F, G, L, S
Contact: 1A

Supplier: Positronic Industries, Inc.
Government Designation: M28748/14
Insert Designation: B, C, D, E, F, G, H
Shell Type/Polarization: 0
Shield/Retaining Plate: 0, 1
Jack Screw/Guidepins: F, G, L, S
Contact: 1A

Supplier: Continental Connector Company
Government Designation: M28748/13
Insert Designation: A, B, C, D, E, F, G, H
Shell Type/Polarization: 0
Shield/Retaining Plate: 0, 1, 2
Jack Screw/Guidepins: F, G, L, S
Contact: 1A

Supplier: Continental Connector Company
Government Designation: M28748/14
Insert Designation: A, B, C, D, E, F, G, H
Shell Type/Polarization: 0
Shield/Retaining Plate: 0, 1, 2
Jack Screw/Guidepins: F, G, L, S
Contact: 1A

Manufacturer: Continental Connector Company (CAGE Code: 95238)
Location: Subsidiary of PMC, Inc, 53 LaFrance Avenue, Bloomfield, NJ 07003, US

Plant Location: Same Address as Manufacturer

Manufacturer: Delphi Connection Systems (CAGE Code: 53669)
Location: P.O. Box 19685, Irvine, CA 92713-9685, US

Plant Locations:
1. Same Address as Manufacturer
2. Interaz S.A., 14532 Boulevard Pacifico, Parque Industrial Pacifico, Tijuana, Baja, California, Mexico
3. Queensway Industrial Estate, Fullerton Road, Glenrothes, Fife, KY7 5PY, Scotland

Manufacturer: J=Tech, Inc. (CAGE Code: 0BW78)
Location: 5403 E. LaPalma, Anaheim, CA 92807, US

Plant Location: Same Address as Manufacturer

Manufacturer: Positronic Industries, Inc. (CAGE Code: 28198)
Location: 423 North Campbell, Springfield, MO 65801-8247, US

Plant Location: Same Address as Manufacturer

Distributor Location: Positronic Indusries, SA, Route De Nauchantel, 34, CH-2035 Pexeus, Switzerland

Manufacturer: Vishay Dale Electronics, Inc (CAGE Code: 09969)
Location: P. O. Box 609, Columbus, NE 68601, US

Plant Location: East Highway 50, Yankton, SD, US

Manufacturer: Winchester Electronics (CAGE Code: 81312)
Location: Division of Litton Industries, 400 Park Road, Watertown, CT 06135-0500, US

Plant Location: Same Address as Manufacturer

Distributor Locations:
1. Astrex, 205 Express Street, Plainview, NY 11803, US
2. BTC Electronic Components, 5809 Departure Drive, Raleigh, NC 27604, US
3. Coghlin Electric, 35 Otis Street, Westboro, MA 01581, US
4. March Electronics, 25 Feldland Avenue, Bohemia, NY 11716, US
5. Powell Electronics, 105-A Connecticut Drive, Burlington, NJ 08016, US
6. Winchester Electronics, Carretera Internacional KM 6.5, Parque Industrial, Nogales, Sonora, Mexico