

molex[®] Mini-Fit Jr.[™] Connectors

Positive Locking Hi-Density Power Connector



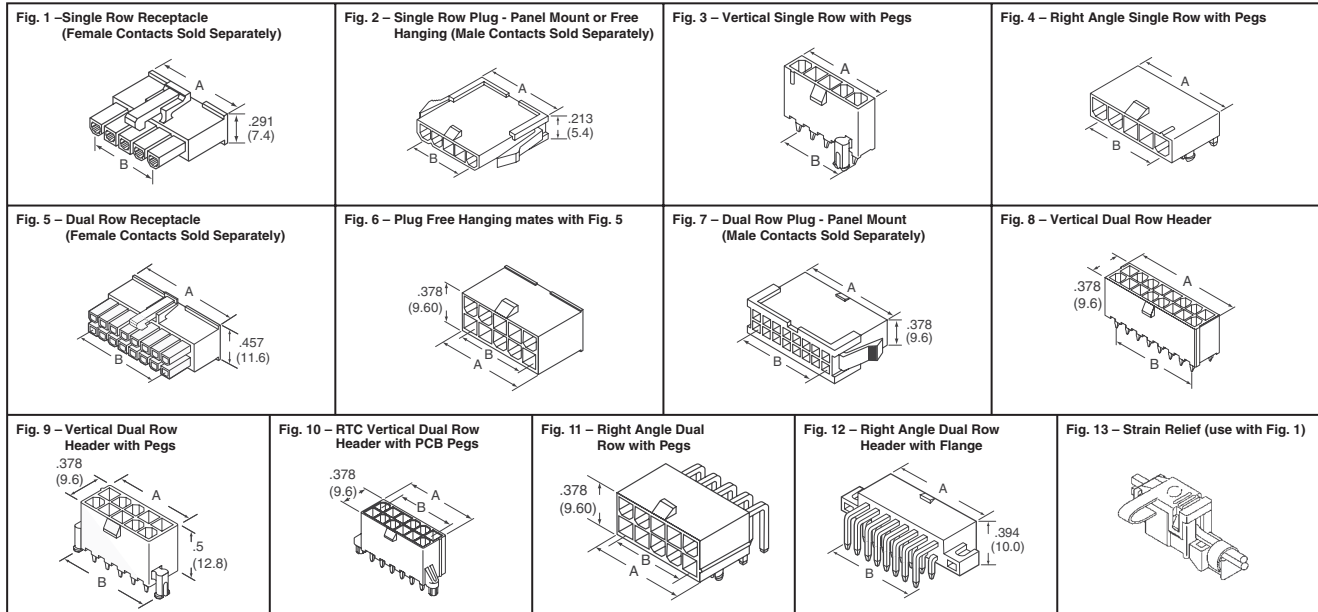
Plugs, Receptacles and Headers:
Specifications:

- Contact Resistance: 10mΩ maximum
- Insulation Resistance: 1,000MΩ minimum
- Dielectric Strength: 1,500VAC
- Safety Approvals: • UL recognized • CSA certified • TÜV licensed

Reflow Temperature Capable (RTC) Headers:
Specifications:

- Current: 12.00A maximum
- Voltage: 600VAC(RMS)/DC maximum
- Operating Temperature Range: -40°C - 105°C
- Process Temperature: 260°C maximum

A



| Fig. | Circuits | UL94 | Dimension - Inch (mm) | | Digi-Key Part No. | Price Each | | | Molex Part No. | |
|---|--|--------------|-----------------------|--------------|-------------------|------------|------|------------|----------------|------------|
| | | | A | B | | 1 | 10 | 100 | | |
| Single Row Receptacle | | | | | | | | | | |
| 1 | 3 | V-2 | .543 (13.80) | .331 (8.40) | WM18434-ND*§ | .49 | .45 | .30 | 39-01-4030 | |
| | 4 | V-2 | .709 (18.01) | .496 (12.60) | WM18435-ND§ | .61 | .54 | .36 | 39-01-4040 | |
| | 5 | V-2 | .874 (22.20) | .661 (16.80) | WM18436-ND§ | .66 | .58 | .39 | 39-01-4050 | |
| | 3 | V-0 | .543 (13.80) | .331 (8.40) | WM23608-ND*§ | .82 | .73 | .49 | 39-01-4031 | |
| | 4 | V-0 | .709 (18.01) | .496 (12.60) | WM23609-ND§ | .90 | .63 | .43 | 39-01-4041 | |
| 5 | V-0 | .874 (22.20) | .661 (16.80) | WM23610-ND§ | .98 | .86 | .58 | 39-01-4051 | | |
| Single Row Plug | | | | | | | | | | |
| 2 | 3 | V-2 | .543 (13.80) | .331 (8.40) | WM18437-ND*† | .62 | .39 | .23 | 39-01-4032 | |
| | 3 | V-2 | .543 (13.80) | .331 (8.40) | WM18439-ND*§ | .55 | .49 | .33 | 39-01-4036 | |
| | 4 | V-2 | .709 (18.01) | .496 (12.60) | WM18440-ND§ | .59 | .53 | .36 | 39-01-4046 | |
| | 5 | V-2 | .874 (22.20) | .661 (16.80) | WM18438-ND† | .63 | .56 | .38 | 39-01-4052 | |
| | 5 | V-2 | .874 (22.20) | .661 (16.80) | WM18441-ND§ | .63 | .56 | .38 | 39-01-4056 | |
| 3 | 3 | V-0 | .543 (13.80) | .331 (8.40) | WM23611-ND*† | .86 | .77 | .51 | 39-01-4033 | |
| | 4 | V-0 | .709 (18.01) | .496 (12.60) | WM23612-ND§ | .94 | .83 | .56 | 39-01-4047 | |
| | 5 | V-0 | .874 (22.20) | .661 (16.80) | WM23613-ND† | 1.00 | .89 | .59 | 39-01-4053 | |
| | Single Row Vertical Header - Tin | | | | | | | | | |
| | 3 | 3 | V-2 | .543 (13.80) | .331 (8.40) | WM18442-ND | 1.07 | .75 | .50 | 39-30-1039 |
| 3 | | V-2 | .543 (13.80) | .331 (8.40) | WM18443-ND | 1.25 | 1.11 | .74 | 39-30-2035 | |
| 4 | | V-2 | .709 (18.01) | .496 (12.60) | WM18444-ND | 2.04 | 1.81 | 1.21 | 39-30-2045 | |
| 5 | | V-2 | .874 (22.20) | .661 (16.80) | WM18445-ND | 2.22 | 1.97 | 1.32 | 39-30-2056 | |
| 3 | | V-0 | .543 (13.80) | .331 (8.40) | WM24035-ND | 1.28 | 1.13 | .75 | 39-30-2030 | |
| 3 | 4 | V-0 | .709 (18.00) | .496 (12.60) | WM24036-ND | 1.69 | 1.50 | 1.00 | 39-30-2040 | |
| | 5 | V-0 | .874 (22.20) | .661 (16.80) | WM24037-ND | 1.99 | 1.76 | 1.18 | 39-30-2050 | |
| | Single Row Vertical Header - Gold | | | | | | | | | |
| | 3 | 3 | V-2 | .543 (13.80) | .331 (8.40) | WM23932-ND | 2.49 | 2.21 | 1.47 | 39-30-2037 |
| | | 4 | V-2 | .709 (18.0) | .496 (12.60) | WM23933-ND | 3.15 | 2.79 | 1.86 | 39-30-2047 |
| 5 | | V-2 | .874 (22.20) | .661 (16.80) | WM23934-ND | 4.06 | 3.59 | 2.39 | 39-30-2058 | |
| Single Row Right Angle Header - Tin | | | | | | | | | | |
| 4 | 3 | V-2 | .543 (13.80) | .331 (8.40) | WM18446-ND | 1.19 | .92 | .71 | 39-30-3035 | |
| | 4 | V-2 | .709 (18.01) | .496 (12.60) | WM18447-ND | 1.80 | 1.59 | 1.06 | 39-30-3045 | |
| | 5 | V-2 | .874 (22.20) | .661 (16.80) | WM18448-ND | 2.08 | 1.84 | 1.23 | 39-30-3055 | |
| | 3 | V-0 | .543 (13.80) | .331 (8.40) | WM24038-ND | 1.62 | 1.43 | .96 | 39-30-3036 | |
| | 4 | V-0 | .709 (18.00) | .496 (12.60) | WM24039-ND | 1.93 | 1.71 | 1.14 | 39-30-3046 | |
| 5 | V-0 | .874 (22.20) | .661 (16.80) | WM24040-ND | 2.23 | 1.97 | 1.32 | 39-30-3056 | | |
| Single Row Right Angle Header - Gold | | | | | | | | | | |
| 4 | 3 | V-2 | .54 (13.80) | .331 (8.40) | WM23935-ND | 2.56 | 2.27 | 1.51 | 39-30-3037 | |
| | 4 | V-2 | .709 (18.0) | .496 (12.60) | WM23936-ND | 3.05 | 2.69 | 1.80 | 39-30-3047 | |
| | 5 | V-2 | .874 (22.20) | .661 (16.80) | WM23937-ND | 3.53 | 3.12 | 2.08 | 39-30-3057 | |

| Fig. | Circuits | UL94 | Dimension - Inch (mm) | | Digi-Key Part No. | Price Each | | | Molex Part No. | |
|----------------------------|-----------------------------------|------|-----------------------|---------------|-------------------|------------|------|------|----------------|------------|
| | | | A | B | | 1 | 10 | 100 | | |
| Dual Row Receptacle | | | | | | | | | | |
| 5 | 2 | V-2 | .213 (5.40) | — | WM3700-ND | .66 | .41 | .21 | 39-01-2020 | |
| | 2 | V-2 | .291 (7.39) | .134 (3.40) | WM1021-ND | .49 | .45 | .30 | 39-01-3022 | |
| | 4 | V-2 | .378 (9.60) | .165 (4.20) | WM3701-ND | .63 | .40 | .23 | 39-01-2040 | |
| | 4 | V-2 | .457 (11.60) | .165 (4.20) | WM1022-ND | .58 | .52 | .35 | 39-01-3042 | |
| | 6 | V-2 | .543 (13.80) | .331 (8.40) | WM3702-ND | .93 | .58 | .34 | 39-01-2060 | |
| | 8 | V-2 | .709 (18.00) | .496 (12.60) | WM3703-ND | .66 | .59 | .40 | 39-01-2080 | |
| | 10 | V-2 | .874 (22.20) | .661 (16.80) | WM3704-ND | .80 | .71 | .47 | 39-01-2100 | |
| | 12 | V-2 | 1.039 (26.40) | .827 (21.00) | WM3705-ND | 1.01 | .71 | .48 | 39-01-2120 | |
| | 14 | V-2 | 1.205 (30.60) | .992 (25.20) | WM3706-ND | 1.10 | .97 | .65 | 39-01-2140 | |
| | 16 | V-2 | 1.370 (34.80) | 1.158 (29.40) | WM3707-ND | 1.11 | .99 | .66 | 39-01-2160 | |
| | 5 | 18 | V-2 | 1.535 (39.00) | 1.323 (33.60) | WM3708-ND | 1.30 | 1.15 | .77 | 39-01-2180 |
| | | 20 | V-2 | 1.701 (43.20) | 1.488 (37.80) | WM3709-ND | 1.43 | 1.18 | .84 | 39-01-2200 |
| | | 22 | V-2 | 1.866 (47.40) | 1.654 (42.00) | WM3710-ND | 1.92 | 1.69 | 1.13 | 39-01-2220 |
| | | 24 | V-2 | 2.031 (51.60) | 1.819 (46.20) | WM3711-ND | 1.57 | 1.39 | .93 | 39-01-2240 |
| | | 2 | V-0 | .213 (5.40) | — | WM23700-ND | .68 | .61 | .41 | 39-01-2025 |
| | | 4 | V-0 | .378 (9.60) | .165 (4.20) | WM23701-ND | .74 | .66 | .44 | 39-01-2045 |
| 6 | | V-0 | .543 (13.80) | .331 (8.40) | WM23702-ND | .93 | .82 | .55 | 39-01-2065 | |
| 8 | | V-0 | .709 (18.00) | .496 (12.60) | WM23703-ND | 1.00 | .89 | .59 | 39-01-2085 | |
| 6 | 10 | V-0 | .874 (22.20) | .661 (16.80) | WM23704-ND | 1.11 | .99 | .66 | 39-01-2105 | |
| | 12 | V-0 | 1.039 (26.40) | .827 (21.00) | WM23705-ND | 1.32 | 1.18 | .79 | 39-01-2125 | |
| | 14 | V-0 | 1.205 (30.60) | .992 (25.20) | WM23706-ND | 1.43 | 1.26 | .84 | 39-01-2145 | |
| | 16 | V-0 | 1.370 (34.80) | 1.158 (29.40) | WM23707-ND | 1.65 | 1.28 | .98 | 39-01-2165 | |
| | 18 | V-0 | 1.535 (39.00) | 1.323 (33.60) | WM23708-ND | 2.01 | 1.78 | 1.19 | 39-01-2185 | |
| | 20 | V-0 | 1.701 (43.20) | 1.488 (37.80) | WM23709-ND | 2.17 | 1.91 | 1.28 | 39-01-2205 | |
| | 22 | V-0 | 1.866 (47.40) | 1.654 (42.00) | WM23710-ND | 2.65 | 2.34 | 1.56 | 39-01-2225 | |
| | 24 | V-0 | 2.031 (51.60) | 1.819 (46.20) | WM23711-ND | 2.24 | 1.98 | 1.32 | 39-01-2245 | |
| | Dual Row Free Hanging Plug | | | | | | | | | |
| | 6 | 2 | V-2 | .291 (7.40) | — | WM1030-ND | .49 | .45 | .30 | 39-01-3023 |
| | | 4 | V-2 | .457 (11.60) | .165 (4.20) | WM1018-ND | .49 | .45 | .30 | 39-01-3043 |
| | | 6 | V-2 | .543 (13.80) | .331 (8.40) | WM1031-ND | .59 | .53 | .36 | 39-01-3063 |
| 8 | | V-0 | .709 (18.00) | .496 (12.60) | WM1019-ND | .72 | .64 | .43 | 39-01-3083 | |
| 10 | | V-0 | .874 (22.20) | .661 (16.80) | WM1020-ND | .80 | .71 | .47 | 39-01-3103 | |
| 12 | | V-0 | 1.039 (26.40) | .827 (21.00) | WM1056-ND | .72 | .64 | .43 | 39-01-3123 | |
| 14 | | V-0 | 1.205 (30.60) | .992 (25.20) | WM1057-ND | 1.02 | .90 | .60 | 39-01-3143 | |

‡ Without drain holes † Panel Mount § Free-Hanging
* 3-circuit receptacle designed for first-mate/last-break applications

(Continued)

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