

3M Mini D Ribbon (MDR) Connectors

Dimensions in Inches (mm)

A

Fig. 1 — IDC Wiremount

• Glass Reinforced Polyester (PBT) • UL 94V-0
• Wiping Area: 30µ" minimum Gold • Wire Accommodation: Gray, 26AWG Solid, Black, 28AWG Stranded, 30AWG Solid • IEEE 1284C Interface as a 36 Contact Connector

Fig. 2 — Solder Connector

• Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20µ" minimum Gold • Solder Area: Tin-Lead • Wire Accommodation: 24, 26, 28 and 30AWG
Note: Use only unshielded backshell 103xx-52F0-008 or 103xx-52A0-008

Fig. 3 — Boardmount Thru-Hole Right Angle

• Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 30µ" minimum Gold • IEEE 1284C Interface as a 36 Contact Connector

Fig. 4 — IDC Wiremount Panelmount

• Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ" minimum Gold • Wire Accommodation: 28AWG Stranded, 30AWG Solid • IEEE 1284C Interface as a 36 Contact Connector • Interface latch

Fig. 5 — Boardmount Thru-Hole Right Angle

• Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ" minimum Gold • Interface latch

Fig. 6 — Boardmount Thru-Hole Vertical

• Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ" minimum Gold • IEEE 1284C Interface as a 36 Contact Connector • Interface latch

Fig. 7 — Surface Mount Right Angle

• Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20µ" minimum Gold • Interface latch

Fig. 8 — Surface Mount Right Angle

• Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20µ" minimum Gold • Interface latch

Fig. 9 — Boardmount Compliant Pin Vertical

• Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ" minimum Gold • Tails: Gold Flash

Fig. 10 — Plastic Shielded Junction Shell for Round Cable

• Outer Shell Material: ABS • UL 94V-0 • Inner Shell Material: Steel, .020" • Plating: Nickel

Fig. 11 — Plastic Solder Junction Shell, Non-Shielded

• Glass Reinforced Polyester (PBT) • UL 94V-0 • Quick release metal latching mechanism

Fig. 12 — Metal Junction Shell for Round Cable

• Material: Aluminum, .050" • Plating: Nickel

Fig. 13 — 60° Metal Junction Shell for Round Cable

• Material: Aluminum, .050" • Plating: Nickel

Fig. 14 — MDR Cable Assembly Plug

Dimension A = Length (from Strain Relief to Strain Relief)

Fig. 15 — NEW! Rugged Thumbscrew Retention and EMI Shielded Junction Shell

Dimension A = Length (from Strain Relief to Strain Relief)

Fig. 16 — NEW! Rugged Thumbscrew Retention and EMI Shielded Junction Shell

Dimension A = Length (from Strain Relief to Strain Relief)

Fig. 17 — I/O Mounting Hardware

| 3M # | A | B | C | D |
|---------|-----------|-------|----------|---------|
| 3341-10 | .35(8.9) | M2.5 | .30(7.6) | 230 DP |
| 3341-16 | .35(8.9) | #4-40 | .30(7.6) | 230 DP |
| 3341-17 | .35(8.9) | #4-40 | .30(7.6) | 230 DP |
| 3341-18 | .35(8.9) | M2.5 | .30(7.6) | 230 DP |
| 3341-25 | .41(10.5) | M2.5 | .12(3.0) | 120 DP |
| 3341-31 | .40(10.2) | M2.5 | .15(3.8) | 100 DP |
| 3341-32 | .50(12.5) | M2.5 | .30(7.6) | .203 DP |

• Material: Stainless Steel • Plating: Passivated

Fig. 18 — Board Lock and Panel Mounting Screws

| 3M # | A |
|---------|-------------|
| 3344-26 | M2.6 x 8mm |
| 3344-3 | M2.5 x 6mm |
| 3344-8 | M2.5 x 8mm |
| 3344-4 | #4-40 x 1/4 |
| 3344-44 | #4-40 x 3/8 |

• Material: Steel • Plating: Zinc

| Fig. | Color | No. of Pos. | Dim. A In. (mm) | Digi-Key Part No. | 1 | Price Each 10 | 250 | 3M Part No. | |
|---|-------|-------------|-----------------|-------------------|-------|---------------|-------|-------------|--------------|
| Plugs — Shielded, .050" — RoHS Compliant | | | | | | | | | |
| 1 | Black | 14 | .72 (18.2) | MPB14A-ND | 4.87 | 4.10 | 3.70 | 3.51 | 10114-6000EC |
| | | 20 | .87 (22.0) | MPB20A-ND | 5.03 | 4.24 | 3.83 | 3.63 | 10120-6000EC |
| | | 26 | 1.02 (25.8) | MPB26A-ND | 5.20 | 4.38 | 3.95 | 3.75 | 10126-6000EC |
| | | 36 | 1.27 (32.2) | MPB36A-ND | 6.24 | 5.25 | 4.74 | 4.50 | 10136-6000EC |
| | | 40 | 1.37 (34.7) | MPB40A-ND | 6.45 | 5.43 | 4.90 | 4.65 | 10140-6000EC |
| | Gray | 40 | 1.62 (41.1) | MPB50A-ND | 6.88 | 5.80 | 5.23 | 4.97 | 10150-6000EC |
| | | 68 | 2.07 (52.5) | MPB68A-ND | 7.07 | 5.95 | 5.38 | 5.10 | 10168-6000EC |
| | | 80 | 2.37 (60.1) | MPB80A-ND | 8.59 | 7.23 | 6.53 | 6.20 | 10180-6000EC |
| | | 100 | 2.87 (72.8) | MPB100A-ND | 10.21 | 8.60 | 7.76 | 7.37 | 101A0-6000EC |
| | | 68 | 2.07 (52.5) | MPA68A-ND | 6.49 | 5.46 | 4.93 | 4.68 | 10168-6010EC |
| 2 | Black | 14 | .72 (18.2) | 3M1767-ND | 6.41 | 5.39 | 4.87 | 4.62 | 10114-3000PE |
| | | 20 | .87 (22.0) | 3M1768-ND | 6.97 | 5.87 | 5.30 | 5.03 | 10120-3000PE |
| | | 26 | 1.02 (25.8) | 3M1769-ND | 7.78 | 6.55 | 5.91 | 5.61 | 10126-3000PE |
| | | 36 | 1.27 (32.2) | 3M1770-ND | 8.26 | 6.95 | 6.28 | 5.96 | 10136-3000PE |
| | | 40 | 1.37 (34.7) | 3M1771-ND | 8.65 | 7.28 | 6.58 | 6.24 | 10140-3000PE |
| | Beige | 40 | 1.62 (41.1) | 3M1772-ND | 9.34 | 7.86 | 7.10 | 6.74 | 10150-3000PE |
| | | 20 | 1.31 (33.3) | 3M1806-ND | 13.64 | 11.48 | 10.37 | 9.84 | 10120-52B2PC |
| | | 26 | 1.46 (37.2) | 3M1807-ND | 14.14 | 11.90 | 10.75 | 10.20 | 10126-52B2PC |
| | | 36 | 1.71 (43.5) | 3M1808-ND | 14.66 | 12.34 | 11.14 | 10.58 | 10136-52B2PC |
| | | 50 | 2.06 (52.4) | 3M1809-ND | 15.31 | 12.88 | 11.63 | 11.04 | 10150-52B2PC |
| Receptacles — Shielded, .050" | | | | | | | | | |
| 4 | Black | 20 | 1.31 (33.4) | MRB20A-ND | 8.88 | 7.48 | 6.75 | 6.41 | 10220-0210EC |
| | | 26 | 1.46 (37.2) | MRB26A-ND | 9.61 | 8.09 | 7.30 | 6.93 | 10226-0210EC |
| | | 36 | 1.71 (43.5) | MRB36A-ND | 10.77 | 9.07 | 8.19 | 7.77 | 10236-0210EC |
| | | 40 | 1.81 (46.1) | MRB40A-ND | 11.32 | 9.52 | 8.60 | 8.16 | 10240-0210EC |
| | | 50 | 2.06 (52.4) | MRB50A-ND | 12.52 | 10.54 | 9.52 | 9.03 | 10250-0210EC |
| | | 68 | 2.51 (63.8) | MRB68A-ND | 14.62 | 12.31 | 11.11 | 10.55 | 10268-0210EC |
| 5 | Beige | 14 | 1.16 (29.6) | 3M1811-ND | 4.20 | 3.54 | 3.20 | 3.03 | 10214-55G3PC |
| | | 20 | 1.31 (33.4) | 3M1814-ND | 3.72 | 3.14 | 2.83 | 2.69 | 10220-55G3PC |
| | | 26 | 1.31 (33.4) | 3M1815-ND | 4.37 | 3.68 | 3.32 | 3.15 | 10220-55H3PC |
| | | 26 | 1.46 (37.2) | 3M1818-ND | 4.04 | 3.40 | 3.07 | 2.91 | 10226-55G3PC |
| | | 36 | 1.71 (43.5) | 3M1820-ND | 4.43 | 3.73 | 3.37 | 3.20 | 10236-55G3PC |
| | Black | 36 | 1.71 (43.5) | 3M1821-ND | 4.43 | 3.73 | 3.37 | 3.20 | 10236-55H3PC |
| | | 40 | 1.81 (46.1) | 3M1824-ND | 5.49 | 4.62 | 4.18 | 3.96 | 10240-55G3PC |
| | | 50 | 2.06 (52.4) | 3M1766-ND | 5.20 | 4.38 | 3.95 | 3.75 | 10250-55H3PC |
| | | 68 | 2.51 (63.8) | 3M1828-ND | 6.76 | 5.69 | 5.14 | 4.88 | 10268-55H3PC |
| | | 68 | 2.51 (63.8) | 3M1822-ND | 10.82 | 9.10 | 8.22 | 7.80 | 10268-5JBPC |
| 6 | Black | 14 | 1.16 (29.5) | 3M1812-ND | 4.53 | 3.82 | 3.45 | 3.27 | 10214-6212PC |
| | | 20 | 1.31 (33.4) | 3M1816-ND | 4.76 | 4.01 | 3.62 | 3.44 | 10220-6212PC |
| | | 26 | 1.46 (37.2) | 3M1819-ND | 4.93 | 4.15 | 3.75 | 3.56 | 10226-6212PC |
| | | 36 | 1.71 (43.5) | 3M1822-ND | 5.08 | 4.27 | 3.86 | 3.66 | 10236-6212PC |
| | | 40 | 1.81 (46.1) | 3M1724-ND | 5.10 | 4.29 | 3.88 | 3.68 | 10240-6212VC |
| | | | | | | | | | |

| Fig. | Color | No. of Pos. | Dim. A In. (mm) | Digi-Key Part No. | 1 | Price Each 10 | 250 | 3M Part No. | |
|---|-------------|-------------|-----------------|-------------------|-------|---------------|-------------|-------------|----------------|
| 6 | Black | 40 | 1.81 (46.1) | 3M1825-ND | 5.30 | 4.47 | 4.03 | 3.83 | 10240-6212PC |
| | | 50 | 2.06 (52.4) | 3M1827-ND | 5.62 | 4.73 | 4.27 | 4.05 | 10250-6212PC |
| | | 68 | 2.51 (63.8) | 3M1829-ND | 6.57 | 5.53 | 5.00 | 4.74 | 10268-6212PC |
| | | 80 | 2.81 (71.5) | 3M1830-ND | 8.86 | 7.46 | 6.74 | 6.39 | 10280-6212PC |
| | | 100 | 3.31 (84.2) | 3M1831-ND | 9.48 | 7.98 | 7.21 | 6.84 | 102A0-6212PC |
| 7 | Beige | 14 | 1.16 (29.5) | 3M1810-ND | 5.77 | 6.37 | 5.76 | 5.46 | 10214-1210PE |
| | | 20 | 1.32 (33.4) | 3M1813-ND | 7.74 | 6.51 | 5.88 | 5.58 | 10220-1210PE |
| | | 26 | 1.50 (38.2) | 3M1731-ND | 7.74 | 6.51 | 5.88 | 5.58 | 10226-1210PE |
| | | 26 | 1.50 (38.2) | 3M1817-ND | 8.05 | 6.78 | 6.12 | 5.81 | 10226-1210PE |
| | | 40 | 1.85 (47.1) | 3M1823-ND | 9.30 | 7.83 | 7.07 | 6.71 | 10240-1210PE |
| 8 | Beige | 50 | 2.06 (52.4) | 3M1733-ND | 9.36 | 7.88 | 7.11 | 6.75 | 10250-1210PE |
| | | 50 | 2.06 (52.4) | 3M1826-ND | 9.73 | 8.19 | 7.40 | 7.02 | 10250-1210PE |
| | | 14 | 1.16 (29.5) | 3M6469-ND | 8.09 | 6.81 | 6.15 | 5.84 | 10214-1S10PE |
| | | 20 | 1.31 (33.3) | 3M6470-ND | 8.26 | 6.95 | 6.28 | 5.96 | 10220-1S10PE |
| | | 26 | 1.46 (37.2) | 3M6471-ND | 8.59 | 7.23 | 6.53 | 6.20 | 10226-1S10PE |
| 9 | Black | 40 | 1.81 (46.1) | 3M6472-ND | 9.92 | 8.35 | 7.54 | 7.16 | 10240-1S10PE |
| | | 50 | 2.06 (52.4) | 3M6473-ND | 10.40 | 8.75 | 7.90 | 7.50 | 10250-1S10PE |
| | | 14 | 1.16 (29.5) | 3M1734-ND | 8.69 | 7.32 | 6.61 | 6.27 | 10214-R21TS |
| | | 36 | 1.71 (43.5) | 3M1735-ND | 9.19 | 7.74 | 6.99 | 6.63 | 10236-R21TS |
| | | 40 | 1.81 (46.1) | 3M1736-ND | 9.36 | 7.88 | 7.11 | 6.75 | 10240-R21TS |
| 80 | 2.51 (63.8) | 3M1737-ND | 10.90 | 9.17 | 8.28 | 7.86 | 10268-R21TS | | |
| | | 3M1738-ND | 14.85 | 12.50 | 11.29 | 10.71 | 10280-R21TS | | |
| Connector Junction Shells — .050" — RoHS Compliant | | | | | | | | | |
| 10 | Beige | 14 | 1.02 (25.9) | 3M1739-ND | 4.68 | 3.94 | 3.56 | 3.38 | 10314-3210-000 |
| | | 20 | 1.17 (29.7) | 3M1740-ND | 4.06 | 3.42 | 3.09 | 2.93 | 10320-3210-000 |
| | | 26 | 1.32 (33.5) | 3M1741-ND | 4.14 | 3.49 | 3.15 | 2.99 | 10326-3210-000 |
| | | 36 | 1.57 (39.8) | 3M1742-ND | 4.22 | 3.56 | 3.21 | 3.05 | 10336-3210-000 |
| | | 40 | 1.67 (42.4) | 3M1765-ND | 4.78 | 4.03 | 3.64 | 3.45 | 10340-3210-000 |
| | | 68 | 2.37 (60.1) | 3M1744-ND | 4.45 | 3.75 | 3.39 | 3.21 | 10368-3210-000 |
| 11 | Black | 14 | 1.16 (29.5) | 3M1745-ND | 6.99 | 5.88 | 5.31 | 5.04 | 10314-A200-008 |
| | | 20 | 1.31 (33.3) | 3M1746-ND | 7.20 | 6.06 | 5.47 | 5.19 | 10320-52F0-008 |
| | | 26 | 1.46 (37.2) | 3M1747-ND | 7.40 | 6.23 | 5.63 | 5.34 | 10326-52F0-008 |
| | | 36 | 1.71 (43.5) | 3M1748-ND | 7.49 | 6.30 | 5.69 | 5.40 | 10336-52F0-008 |
| | | 50 | 2.06 (52.4) | 3M1749-ND | 7.70 | 6.48 | 5.85 | 5.55 | 10350-52F0-008 |
| 12 | — | 14 | 1.01 (25.8) | 3M1750-ND | 11.40 | 9.59 | 8.66 | 8.22 | 10314-A200-000 |
| | | 20 | 1.17 (29.7) | 3M1751-ND | 10.15 | 8.54 | 7.72 | 7.32 | 10320-A200-000 |
| | | 26 | 1.32 (33.5) | 3M1752-ND | 10.92 | 9.19 | 8.30 | 7.88 | 10326-A200-000 |
| | | 36 | 1.57 (39.8) | 3M1753-ND | 11.54 | 9.72 | 8.77 | 8.33 | 10336-A200-000 |



Mini D Ribbon (MDR) Connectors (Cont.)

| Fig. | Color | No. of Pos. | Dim. A In. (mm) | Digi-Key Part No. | 1 | 10 | 100 | 250 | 3M Part No. |
|------|-------|-------------|-----------------|-------------------|-------|-------|-------|-------|---------------|
| 12 | — | 68 | 2.37 (60.1) | 3M1756-ND | 13.52 | 11.38 | 10.27 | 9.75 | 10368-A200-00 |
| | | 100 | 3.16 (80.2) | 3M1757-ND | 15.08 | 12.69 | 11.46 | 10.88 | 103A0-A200-00 |
| | | 14 | 1.02 (25.8) | 3M1758-ND | 9.94 | 8.37 | 7.56 | 7.17 | 10314-A500-00 |
| 13 | — | 26 | 1.32 (33.5) | 3M1759-ND | 11.59 | 9.75 | 8.81 | 8.36 | 10326-A500-00 |
| | | 36 | 1.57 (39.8) | 3M1760-ND | 11.79 | 9.93 | 8.96 | 8.51 | 10336-A500-00 |
| | | 40 | 1.67 (42.4) | 3M1761-ND | 14.04 | 11.82 | 10.67 | 10.13 | 10340-A500-00 |
| | | 50 | 1.92 (48.7) | 3M1762-ND | 13.10 | 11.03 | 9.96 | 9.45 | 10350-A500-00 |
| | | 68 | 2.37 (60.1) | 3M1763-ND | 14.00 | 11.78 | 10.64 | 10.10 | 10368-A500-00 |

MDR Cable Assemblies — RoHS Compliant

| | | | | | | | | | |
|----|-------|----|-----------|--------------|--------|--------|--------|--------|--------------------|
| 14 | Beige | 26 | .5 meters | MCA106-5-ND | 54.03 | 47.28 | 44.92 | 42.22 | 14526-EZ58-050-02C |
| | | 26 | 1 meter | MCA107-1-ND | 60.22 | 52.70 | 50.07 | 47.05 | 14526-EZ58-100-02C |
| | | 26 | 2 meters | MCA108-2-ND | 72.61 | 63.54 | 60.36 | 56.73 | 14526-EZ58-200-02C |
| | | 26 | 3 meters | MCA109-3-ND | 84.99 | 74.37 | 70.65 | 66.40 | 14526-EZ58-300-02C |
| | | 36 | 1 meter | MCA116-1-ND‡ | 71.41 | 62.49 | 59.36 | 55.79 | 14T36-SZ68-100-0HC |
| | | 36 | 2 meters | MCA117-2-ND‡ | 81.63 | 71.43 | 67.86 | 63.78 | 14T36-SZ68-200-0HC |
| | | 36 | 5 meters | MCA118-5-ND‡ | 116.99 | 102.37 | 97.25 | 91.40 | 14T36-SZ68-500-0HC |
| | | 50 | 1 meter | MCA110-1-ND‡ | 103.71 | 90.75 | 86.22 | 81.03 | 14T50-SZWB-100-0NC |
| | | 50 | 2 meters | MCA111-2-ND‡ | 120.74 | 105.65 | 100.37 | 94.33 | 14T50-SZWB-200-0NC |
| | | 50 | 5 meters | MCA112-5-ND‡ | 177.62 | 155.42 | 147.65 | 138.77 | 14T50-SZWB-500-0NC |
| | | 50 | 1 meter | MCA113-1-NDA | 106.10 | 92.84 | 88.20 | 82.89 | 14B50-SZWB-100-0NC |
| | | 50 | 2 meters | MCA114-2-NDA | 124.43 | 108.88 | 103.44 | 97.22 | 14B50-SZWB-200-0NC |
| | | 50 | 5 meters | MCA115-5-NDA | 180.59 | 158.02 | 150.12 | 141.09 | 14B50-SZWB-500-0NC |

NEW! Digital Camera Cable — RoHS Compliant NEW!

| | | | | | | | | | |
|----|------|----|-----------|--------------|--------|-------|-------|-------|--------------------|
| 15 | Gray | 26 | 2 meters | MCA124-2-ND | 53.15 | 46.51 | 44.19 | 41.53 | 14B26-SZ38-200-03C |
| | | 26 | 5 meters | MCA130-5-ND | 73.30 | 64.14 | 60.93 | 57.27 | 14B26-SZ38-500-03C |
| | | 26 | 10 meters | MCA122-10-ND | 106.88 | 93.52 | 88.85 | 83.50 | 14B26-SZ38-A00-03C |

NEW! High-Flex Digital Camera Cable — RoHS Compliant NEW!

| | | | | | | | | | |
|----|-------|----|-----------|--------------|--------|--------|--------|--------|--------------------|
| 15 | Black | 26 | 2 meters | MCA131-2-ND | 79.71 | 69.75 | 66.27 | 62.28 | 14B26-SZ38-200-04C |
| | | 26 | 5 meters | MCA130-5-ND | 109.94 | 96.20 | 91.39 | 85.89 | 14B26-SZ38-500-04C |
| | | 26 | 10 meters | MCA129-10-ND | 160.32 | 140.28 | 133.27 | 125.25 | 14B26-SZ38-A00-04C |

| | | | | | | | | | |
|----|-------------|----|----------|-------------|--------|--------|--------|--------|--------------------|
| 16 | Beige/Black | 26 | 2 meters | MCA126-2-ND | 116.91 | 102.30 | 97.19 | 91.34 | 14H26-SZLM-200-0LC |
| | | 26 | 5 meters | MCA125-5-ND | 161.25 | 141.10 | 134.04 | 125.98 | 14H26-SZLM-500-0LC |

NEW! Right Angle Digital Camera Cable — RoHS Compliant NEW!

| | | | | | | | | | |
|----|------------|----|----------|-------------|--------|--------|--------|--------|--------------------|
| 16 | Gray/Black | 26 | 2 meters | MCA128-2-ND | 99.38 | 86.96 | 82.61 | 77.64 | 14H26-SZ3M-200-03C |
| | | 26 | 5 meters | MCA127-5-ND | 137.06 | 119.93 | 113.93 | 107.08 | 14H26-SZ3M-500-03C |

NEW! Right Angle, High-Flex Digital Camera Cable — RoHS Compliant NEW!

| | | | | | | | | | |
|----|-------|----|----------|-------------|--------|--------|--------|--------|--------------------|
| 16 | Black | 26 | 2 meters | MCA132-2-ND | 122.77 | 107.43 | 102.06 | 95.92 | 14H26-SZ3M-200-04C |
| | | 26 | 5 meters | MCA132-5-ND | 169.31 | 148.15 | 140.75 | 132.28 | 14H26-SZ3M-500-04C |

◆ RoHS Compliant ‡ Over-molded 4-40 thumbscrew Δ Discrete 4-40 thumbscrew shell kit

| Fig. | Description | Digi-Key Part No. | 1 | 100 | 500 | 1,000 | 3M Part No. |
|---|-----------------------|-------------------|--------|--------|---------|-------------|-------------|
| Jack Sockets, .050" — RoHS Compliant | | | | | | | |
| 17 | M2.5/M2.5 #4-40/#4-40 | MDVS10-ND | 2.16 | 164.32 | 743.60 | 1352.00 | 3341-10BULK |
| | M2.5/M2.5 #4-40/#4-40 | MDVS16-ND | 2.27 | 172.22 | 779.35 | 1417.00 | 3341-16BULK |
| | M2.5/M2.5 #4-40/#4-40 | MDVS17-ND | 1.71 | 129.56 | 586.30 | 1086.00 | 3341-17KIT |
| | M2.5/M2.5 #4-40/#4-40 | MDVS13-ND | 1.50 | 113.76 | 514.80 | 936.00 | 3341-13BULK |
| | M2.5/M2.5 #4-40/#4-40 | MDVS25-ND | 3.00 | 227.52 | 1029.60 | 1872.00 | 3341-25 |
| | M2.5/M2.5 #4-40/#4-40 | MDVS31-ND | 1.73 | 131.14 | 593.45 | 1079.00 | 3341-31BULK |
| M2.5/M2.5 #4-40/#4-40 | MDVS32-ND | 2.00 | 151.68 | 686.40 | 1248.00 | 3341-32BULK | |

| Fig. | Description | Digi-Key Part No. | 10 | 100 | 500 | 1,000 | 3M Part No. |
|---|---------------------------------|-------------------|-------|-------|--------|--------|-------------|
| Screws (Steel with Zinc Plating), .050" — RoHS Compliant | | | | | | | |
| 18 | Board Lock Screw, M2.6 x 8mm | MDVT26-ND* | 3.60 | 25.20 | 105.00 | 192.00 | 3344-26 |
| | Board Lock Screw, M2.5 x 6.0mm | MDVT03-ND* | 11.40 | 79.80 | 332.50 | 608.00 | 3344-3 |
| | Panel Mount Screw, M2.5 x 8.0mm | MDVT38-ND* | 3.60 | 25.20 | 105.00 | 192.00 | 3344-38 |
| | Board Lock Screw, #4-40 x 1/4" | MDVT04-ND* | 11.10 | 77.70 | 323.75 | 592.00 | 3344-4 |
| | Panel Mount Screw, #4-40 x 3/8" | MDVT44-ND* | 12.60 | 88.20 | 367.50 | 672.00 | 3344-44 |

* Quantity of one equals one pair.

Shielded Compact Ribbon (SCR) Connectors



Features: • Robust ribbon style contact for reliable repetitive plugging • 360° shielding for excellent EMI protection • 10 contacts can carry signal or power (up to 1A per pin) • Polarized to provide proper cable insertion • Vibration resistant **Specifications:** • Insulation Material: Glass-filled LCP or Glass-filled Nylon • Flammability: UL 94V-0 • Color: Black • Contact Material: Phosphor Bronze or Copper Alloy • Shroud Material: Steel • Current Rating: 1A • Voltage Rating: 150VAC/200VDC • Temperature Rating: -55°C – 85°C

| | | | |
|--------|--|--------|--|
| Fig. 1 | | Fig. 2 | |
| Fig. 3 | | Fig. 4 | |

| Fig. | Description | Digi Key Part No. | 1 | 10 | 100 | 3M Part No. |
|--------------------|------------------------------|-------------------|------|------|------|----------------|
| 1 | Receptacle, Wiremount | 3M6453-ND | 3.64 | 3.07 | 2.77 | 36210-0100FD |
| 1 | Receptacle, Wiremount | 3M6459-ND | 3.74 | 3.15 | 2.85 | 36210-0100PL |
| 2 | Plug, SMT | 3M6456-ND | 6.78 | 5.71 | 5.16 | 36110-1110PL |
| 3 | Plug, Right Angle, Thru-Hole | 3M6457-ND | 5.84 | 4.92 | 4.44 | 36110-2220PE |
| 4 | Plug, Solder | 3M6458-ND | 5.49 | 4.62 | 4.18 | 36110-3000FD |
| Accessories | | | | | | |
| — | Backshell for Receptacle | 3M6454-ND | 7.38 | 6.22 | 5.61 | 36310-3200-008 |
| — | Backshell for Plug | 3M6455-ND | 8.22 | 6.92 | 6.25 | 36310-F200-008 |

SATA Connectors

Dimensions in mm



| | | | |
|-------------------------------|--|---------------------|--|
| Fig. 1 | | Fig. 2 | |
| Right Angle Shown | | Straddlemount Shown | |
| Fig. 3 | | Fig. 4 | |
| Fig. 5 | | Fig. 6 | |
| Straight to Right Angle Shown | | | |

| Fig. | Description | Dimensions — mm | No. of Pos. | Digi-Key Part No. | Price Each | 3M Part No. |
|-------------------------|---------------------------|-------------------|-------------|-------------------|----------------|------------------|
| SATA Plugs | | | | | | |
| 1 | R/A, SMT Gold Flash | 17.46 11.50 4.00 | 7 | 3M5561-ND | .60 .45 .32 | 5607-4200-SH |
| | Vertical, PCB Gold Flash | 16.78 8.40 5.70 | 7 | 3M5562-ND | .57 .43 .31 | 5607-5102-SH |
| 2 | Straddlemount 30µ" | 45.77 7.25 5.73 | 22 | 3M5555-ND | 2.16 1.62 1.16 | 5622-6309-ML |
| | R/A, Thru-Hole 30µ" | 42.76 5.60 11.00 | 22 | 3M5556-ND | 2.34 1.76 1.25 | 5622-4100-ML |
| SATA Receptacles | | | | | | |
| 3 | R/A, SMT 30µ" | — — — | 22 | 3M5560-ND | 2.52 1.89 1.35 | 5622-1200-ML |
| | Vertical, SMT 30µ" | 54.50 5.50 2.45 | 22 | 3M5557-ND | 2.43 1.83 1.30 | 5622-2222-ML |
| | Vertical, PCB 30µ" | 42.73 5.00 14.15 | 22 | 3M5558-ND | 2.43 1.83 1.30 | 5622-2103-ML |
| 4 | Vertical, Pressfit, 30µ" | 42.73 10.00 14.15 | 22 | 3M5559-ND | 2.52 1.89 1.35 | 5622-2603-ML |
| | SATA Signal Cables | | | | | |
| 5 | R/A to R/A, L=1m | 12.5 12.5 — | 7 | 3M5564-ND | 2.85 2.14 1.52 | 5602-11-0000-000 |
| | R/A to R/A, L=0.5M | 12.5 12.5 — | 7 | 3M5565-ND | 2.55 1.92 1.36 | 5602-11-0000-500 |
| | STR to R/A, L=1M | 15.5 12.5 — | 7 | 3M5566-ND | 2.85 2.14 1.52 | 5602-21-0000-000 |
| | STR to R/A, L=0.5M | 15.5 12.5 — | 7 | 3M5567-ND | 2.55 1.92 1.36 | 5602-21-0000-500 |
| | STR to STR, L=1M | 15.5 15.5 — | 7 | 3M5568-ND | 2.85 2.14 1.52 | 5602-22-0000-000 |
| | STR to STR, L=0.5M | 15.5 15.5 — | 7 | 3M5743-ND | 2.76 2.07 1.48 | 5602-22-0000-500 |
| Power Cable | | | | | | |
| 6 | "Y" Configuration | — — — | 15 | 3M5563-ND | 4.68 3.51 2.50 | 5601-22-127-200 |

§ With mounting flange

SDR Connectors and Cable Assemblies



Dimensions in Inches (mm)

| | | | |
|--------|--|--------|--|
| Fig. 1 | | Fig. 2 | |
| Fig. 3 | | Fig. 4 | |
| Fig. 5 | | Fig. 6 | |
| Fig. 7 | | | |

| Fig. | Description | No. of Pos. | Dim. A In. (mm) | Digi-Key Part No. | 1 | 10 | 100 | 3M Part No. |
|------|---------------------------|-------------|-----------------|-------------------|--------|--------|--------|--------------------|
| 1 | MDR Recept. - SDR Plug | 26 | — | MCA100-5-ND | 219.95 | 192.46 | 171.84 | 1MF26-L560-00C-500 |
| 2 | R/A SDR Plug - MDR Plug | 26 | — | MCA101-2-ND | 192.00 | 168.00 | 150.00 | 1MF26-L576-00C-200 |
| | R/A MDR Plug - SDR Plug | 26 | — | MCA102-5-ND | 249.36 | 218.19 | 194.82 | 1MF26-L586-00C-500 |
| 3 | MDR Recept. - SDR Plug | 26 | — | MCA103-2-ND | 197.60 | 172.90 | 154.38 | 1MG26-LFWO-00C-200 |
| 4 | SDR Plug - SDR Plug | 26 | — | MCA104-5-ND | 324.37 | 283.83 | 253.42 | 1SF26-L120-00C-500 |
| | R/A SDR Plug - SDR Plug | 26 | — | MCA105-2-ND | 297.25 | 260.10 | 232.23 | 1SF26-L136-00C-200 |
| 5 | Header - SMT, R/A | 14 | .79 (20) | MSDS14-ND | 9.51 | 8.00 | 7.23 | 12214-8250-00FR |
| | | 26 | .98 (24.8) | MSDS26-ND | 10.50 | 8.84 | 7.98 | 12226-8250-00FR |
| 6 | Header - Thru-Hole, R/A | 14 | .79 (20) | MSDR14-ND | 7.92 | 6.67 | 6.02 | 12214-5150-00FR |
| | | 26 | .98 (24.8) | MSDR26-ND | 8.92 | 7.51 | 6.78 | 12226-5150-00FR |
| | | 50 | 1.35 (34.4) | MSDR50-ND | 11.88 | 10.00 | 9.03 | 12250-5150-00FR |
| 7 | Header - Thru-Hole, Vert. | 14 | .79 (20) | MSDV14-ND | 7.53 | 6.34 | 5.72 | 12214-1150-00FR |
| | | 26 | .98 (24.8) | MSDV26-ND | 8.53 | 7.18 | 6.48 | 12226-1150-00FR |

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