3M Interconnect Products Short Form Catalog

Comprehensive Solutions for Reliable Connections



Complete Solutions for the Electronics Industry

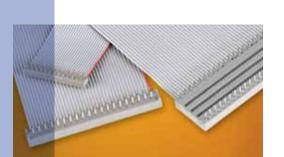
3M Interconnect Solutions offers a comprehensive range of Interconnect Solutions for the electronics industry, with a product portfolio that includes connectors, cables, cable assemblies and assembly tooling for a wide variety of applications.

3M is dedicated to innovation, continually developing new products that become an important part of everyday life across many diverse markets. A number of 3M solution categories are based on custom-designed products for specialized applications. 3M Interconnect Solutions can help you design, modify and customize your product as well as help you seamlessly integrate our products into your manufacturing process on a global basis.

Design, modify and Customize your product

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3M[™] BACKPLANE CONNECTOR SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
DIN Connectors	 RoHS Compliant Version Available DIN 41612 C-Form Plug and Socket C-Form Wiremount Plugs and Sockets R-Form Plug and Socket Q-Form Plug and Socket B-Form Wiremount Plug and Socket Pinless Shrouds Solder Tails or Press-Fit Inverse Versions EMLB Contact Loading PCB Retention Clips 	Contact Material: Copper Alloy Insulation Material: Engineering Thermoplastic Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Min. Nickel Interface: 30 μ" [0.76 μm] Gold or 3 μ" [0.08 μm] Gold over 7 μ" [0.18 μm] PdNi	Current Rating: 3.0 A @ 30°C T-rise Above Ambient Temperature Rating: -55°C to +125°C
MetPak [®] 2-FB Connectors	 RoHS Compliant Version Available Futurebus+® Inverse Version Available Vertical and Right Angle Stacking Versions Guiding Features Pinless Shroud Power Header and Socket 	Contact Material: Copper Alloy Insulation Material: High Temp LCP Flammability UL 94V-0 Plating Underplating: 50 μ" (1.27 μm) Nickel Interface: 10 μ" [0.25 μm] or 30 μ" [0.76 μm] Gold or 3 to 5 μ" [0.07 to 0.12 μm] Gold over 7, 27 or 40 μ" [0.18, 0.69, 1.01 μm] PdNi	Current Rating: Signal: 1.5 A All Contacts Simultaneously Temperature Rating: -55°C to +125°C
<section-header></section-header>	 RoHS Compliant Version Available Compact PCI[®] Types A, B, AB and C Header and Socket Grounding Options EMLB Contact Loading Coding Keys Pinless Shroud 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: Nickel Wiping Area: 30 μ [*] [0.76 μm] Gold	Current Rating: 1 A at +70°C Temperature Rating: -55°C to +125°C

3M[™] BACKPLANE CONNECTOR SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
MetPak [®] HM Connectors	 RoHS Compliant Version Available Hard Metric (HM) 5- and 8-Row Versions Optional Four Integrated 8.25 A Power Blades for a Total of 33 A Power; Saves Space and Press-Fit Operations Socket and Header Power Options Protective Caps Coding Keys Shielding Options 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Interface: 30 μ" [0.76 μm] Gold or 5 μ" [0.13 μm] Gold over 40 μ" [1.01 μm] PdNi	Current Rating: (Fully Loaded): 1 A at 70°C Signal, 8.25 A @ 70°C Power Temperature Rating: -55°C to +125°C
<section-header></section-header>	 RoHS Compliant Version Available Low Crosstalk at High Frequencies Optional Four Integrated 8.25 A Power Blades for a Total of 33 A Power; Saves Space and Press-Fit Operations 50/100 (Single-Ended/Differential) Impedance Modular/Scalable Format IEC 61076-4-101 63 Mated Lines Per Linear Inch Press-Fit Headers and Receptacles End-To-End Stackable with 5 Row 3M[™] Metpak[™] CP2, HM, and HSHM Headers High Speed Hard Metric (HSHM) 8 Gbps Per Second Orthogonal Design Capable Differential Pairs in Rows or Columns Virtual Coax Capable 5- and 8-Row Versions Socket and Header Power Options Protective Caps for Headers Coding Keys Shielding Options Guide Pin Options 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Interface: 30 μ" [0.76 μm] Gold or 5 μ" [0.13 μm] Gold over 40 μ" [1.01 μm] PdNi	Current Rating: (Fully Loaded): 1 A at 70°C Signal, 8.25 A @ 70°C Power Temperature Rating: -55°C to +125°C
Ultra Hard Metric (UHM) Connectors	 RoHS Compliant 7+ Gbps Data Rates When Mated to Standard IEC 61076-4-101 2 mm Hard Metric Headers Low Crosstalk at High Frequencies 50/100 Ω (Single-Ended/Differential) Impedance Press-Fit Receptacles Fully Compatible With IEC 61076-4-101 Dual Beam Contact Construction for High Reliability End-To-End Stackable with 5 Row 3M Metpak CP2, HM, UHM and HSHM Sockets Mates With 3M Metpak CP2, HM, UHM, HSHM Headers and Any Other cPCI® Type Headers 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic (LCP) Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Interface: 30 μ" [0.76 μm] Gold	Current Rating: 1 A at 70°C Signal Temperature Rating: -55°C to +125°C

3M[™] BOARDMOUNT CONNECTOR SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Pin Strip Headers Series 95X	 RoHS Compliant Single and Dual Row 3 - 80 Positions High Temperature Dielectric "No Lead" Wave and Reflow Solder Compatible Maximizes Use of PC Board Space End Stackable Feature Mates with Boardmount and Wiremount Products Available in Straight, Right Angle Through-Hole and Surfacemount Versions 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic Color: Black Flammability UL 94V-0 Plating Underplating: 1.25–2.5 μm [100 μ ⁻] Nickel Wiping Area: 0.25 μm [10 μ"] Gold Solder Tail Area: 1–3 μm [40–118 μ"] Matte Tin	Current Rating: 1 A Temperature Rating: -40°C to +105°C
Boardmount Pin Strips and Sockets 2 mm, Series 95X	 RoHS Compliant Maximizes Use of PC Board Space High Temperature Dielectric "No Lead" Wave and Reflow Solder Compatible Dual Row Design, 4–80 Pins Minimized PC Board Stacking Heights Mates With Pin Strip Header Products Available in Straight, Right Angle Through-Hole, Through-Board and Surfacemount Versions 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic Color: Black Flammability UL 94V-0 Plating Underplating: 1.25–2.5 μm [100 μ"] Nickel Wiping Area: 0.25 μm [10 μ"] Gold Solder Tail Area: 1–3 μm [40–118 μ"] Matte Tin	Current Rating: 1 A Temperature Rating: -40°C to +105°C
Box Headers 2 mm x 2 mm, Solder Tail Series 957	 RoHS Compliant High Temperature Dielectric "No Lead" Wave and Reflow Solder Compatible Maximizes Use of PC Board Space Center Slot Polarization Prevents Mis-Insertions and Reduces Insertion Time 10 - 68 Positions 	Contact Material: Square Pin 0.5 mm, Copper Alloy Insulation Material: High Temperature Thermoplastic Color: Black Flammability UL 94V-0 Plating Underplating: 1.25–2.5 µm [100 µ"] Nickel Wiping Area: 0.25 µm [10 µ"] Gold Solder Tail Area: 1–3 µm [40–118 µ"] Matte Tin	Current Rating: 1 A Temperature Rating: -40°C to +105°C
Sockets and Pin Strip Headers, .100" x .100" Series 929	 RoHS Compliant Version Available 2-72 Positions Single- and Dual-Row Options Through-Hole and Through-Board Options Customizable Stack Heights from .150" to 1.325" High Temperature Insulator Option 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester (PBT) or PCT (RoHS Compliant) Flammability UL 94V-0 Plating Pin Strip Underplating: 50 μ" [1.27 μm] Nickel, Interface: 10 μ" [0.25 μm] or 30 μ" [0.76 μm] Gold Socket Underplating: 100 μ" [2.54 mm] Nickel, Interface: 10 μ" [0.25 μm] or 30 μ" [0.76 μm] Gold Tin Plated Versions Available	Current Rating: 1 A, 2 A or 2.5 A Temperature Rating: -40°C to +105°C
Polarized Boardmount Sockets, .100" x .100" Series 5100, 6800, 8500, 9100	 RoHS Compliant 10-64 Positions Vertical and Right Angle Options Center Bump Polarization 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 2 μm [79 μ"] Nickel Wiping Area: 0.3 μm [12 μ"] Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
Sockets and Pin Strip Headers, 2 mm x 2 mm Series 15	 RoHS Compliant Version Available 4-60 Positions Single and Dual-Row Options Surfacemount, Through-Hole and Through-Board Options Customizable Stack Heights from .101" to 1.418" High Temperature Insulator 	Contact Material: Copper Alloy Insulation Material: Glass Filled PCT Flammability UL 94V-0 Plating Underplating: 50-150 μ" [1.27-3.81 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C

3M[™] BOARDMOUNT CONNECTOR SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Pak 50 Sockets and Headers Series P50	 RoHS Compliant 20-200 Positions .050" Pitch Reliable Ribbon Contacts 7.0 - 30.0 mm Stack Heights Parallel, Perpendicular and End-to-End Mating Audible Tactile "Click" for Blind Mating Optional Power/Ground Pins Wiremount Options Available 	Contact Material: Phosphor Bronze Insulation Material: Glass Filled Nylon Flammability UL 94V-0 Plating Underplating: Nickel Wiping Area: 10 μ [*] [0.25 μm] Gold	Current Rating: 0.5 A Temperature Rating: -55°C to +85°C
Pak 10 Plugs and Connectors Series PK10	 RoHS Compliant 30-100 Positions 1.0 mm Pitch Optional Power/Ground Pins Parallel, Perpendicular and End-to-End Mating 	Contact Material: Phosphor Bronze Insulation Material: Glass Filled LCP Flammability UL 94V-0 Plating Underplating: Nickel Wiping Area: 2 μ" [0.05 μm] or 4 μ" [0.1 μm] Minimum Gold	Current Rating: 0.5 A Temperature Rating: -55°C to +85°C
Pak 8 Plug Connectors Series P08	RoHS Compliant 20-100 Positions . 8 mm Pitch 3.0 - 8.0 mm Stack Heights	Contact Material: Copper Alloy Insulation Material: High Temperature Plastic Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 8 μ" [0.20 μm] Gold	Current Rating: 0.5 A Temperature Rating: -55°C to +85°C
Pak 8 Hermaphroditic Connector Series P08	 RoHS Compliant 30-100 Positions 8 mm Pitch 11.5 mm Mated Height Mates to Itself, One Part on the Bill of Material 	Contact Material: Phosphor Bronze Insulation Material: High Temperature Plastic Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 8 μ" [0.20 μm] Minimum Gold	Current Rating: 0.5 A Temperature Rating: -55°C to +85°C
Pak 5 Connectors Series P05N	 RoHS Compliant 20-100 Positions .5 mm Pitch 3.0 - 6.0 mm Stack Height 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 8 μ [0.2 μm] Gold	Current Rating: 0.5 A Per Contact Temperature Rating: -55°C to +85°C
Pak 5 Plugs Series PK5	RoHS Compliant 40-160 Positions 5 mm Pitch 4.0 - 8.0 mm Stack Heights	Contact Material: Copper Alloy Insulation Material: Glass filled LCP Flammability UL 94V-0 Plating Underplating: Nickel Wiping Area: 2 µ" [0.05 µm] Minimum Gold over Nickel	Current Rating: 0.3 A Temperature Rating: -55°C to +85°C

3M[™] BOARDMOUNT CONNECTOR SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
4-Wall Low Profile Headers, .100" x .100", Series 2500 and Series D2500	 RoHS Compliant Low Profile, Space Saving Design Center Slot Polarization Optional Retainer Clip for Locking Sockets in Place and Increasing Connection Reliability in Vibration Prone Environments Optional High Temperature Insulator Straight, Right Angle Through-Hole, and Straight Surfacemount Versions Available 10-64 Positions 	Contact Material: Brass Insulation Material: High Temp Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 50-100 u" [1.27 - 2.54 µm] Nickel Wiping Area: 30 u" [0.76 µm] Gold for 2500 Series 10 µ" [0.25 µm] Gold for D2500 Series Solder Tails: 40-120 u" [1-3 µm] Matte Tin	Current Rating: 2 A Temperature Rating: -55°C to +105°C
4-Wall Latch/Eject Headers, .100" x .100", Series 3000, Series D3000	 RoHS Compliant Version Available 10-64 Positions Straight and Right Angle Tails Vertical Compliant Pin Option 3- or 4-Wall Options Robust Roll Pin Latch System High Temperature Option 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 100 μ" [2.54 μm] Nickel - Overall Wiping Area: 30 μ" [0.76 μm] Gold 30 μ" Gold for 3000 Series, 10 μ" Gold for D3000 Series	Current Rating: 2 A Temperature Rating: -55°C to +105°C
Latch/Eject Headers, 2 mm Series 1552	 RoHS Compliant 13 Pin Counts, Ranging from 6–50 Positions Robust Ejectors for Vibration Environments and to Reduce Likelihood of Latch Breakage when Ejecting Mates to 3M™ Sockets, IDC, 1522 Series and 3M™ Molded Cable Assemblies, 2M Series (with Latching Ear Option) 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 10 μ" [0.25 μm] Gold or 30 μ" [0.76 μm] Gold Solder Tails: 200 μ" [5.0 μm] Matte Tin	Current Rating: 1 A Temperature Rating: Operating Temperature: -55°C to +105°C
4-Wall Condo Headers, .100" x .100" Series 3400	 RoHS Compliant Version Available 20-128 Positions Right Angle Tails 3- or 4-Wall Options Robust Roll Pin Latch System High Temperature Option 3-Wall Fits in VME Board Stacking Criteria "HDI" Alternative 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 100 μ" [2.54 μm] Nickel - Overall Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
Surfacemount Latch/Eject Headers, .100" x .100" Series N4600	 RoHS Compliant Version Available 10-60 Positions Robust Roll Pin Latch System High Temperature Body Raised Body and Gull Wing Leads Allow for Easy Inspection 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 100 μ" [2.54 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C

3M[™] WIREMOUNT CONNECTOR SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Pak 50 Wiremount Sockets Series P25E, P25LE, P50E	 RoHS Compliant 20-100 Positions Accepts .025" And .050" Cable Integrated Latch/Eject Audible Tactile "Click" for Blind Mating 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 100 μ° [2.54 μm] Nickel Wiping Area: 10 μ° [0.25 μm] Gold	Current Rating: 0.5 A Temperature Rating: -55°C to +85°C
Link Connectors, .100" IDC Series 381 and 382	 RoHS Compliant Simple and Low Cost Wiring Solution Hermaphroditic Mating Wiremount Connector Meets CC-Link/LT Standard IDC Termination to Discrete Wire or Flat Cable with Standard Pliers Straight and Right Angle Boardmount Sockets 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester (PBT) Flammability UL 94V-0 Plating Underplating: 2.54 μm [100 μ"] Minimum Nickel Wiping Area: 0.2 μm [8 μ"] Minimum Gold with Lubricant Solder Tails: Gold Flash	Current Rating: 5.0 A Temperature Rating: -20°C to +70°C
Mini-Clamp Sockets and Plugs, Wiremount Series 371 and 373	 RoHS Compliant Flexible, Easy-To-Use, Wire-To-Wire or Wire-To-Board Connector System High Number of Mating Cycles Mating Latch Features Provide a Reliable Interconnection in Demanding Applications Allows Easy and Simple Interconnecting of Sensors or Other Discrete Wire Devices Dust Cap Accessory Available for Use in Harsh Environments 	Contact Material: Copper Alloy Insulation Material: Nylon Color: Black Flammability UL 94V-0 Plating Underplating: 2.54 μm [100 μ"] Minimum Nickel Wiping Area: 0.2 μm [8 μ"] Minimum Gold with Lubricant Solder Tails: Gold Flash	Current Rating: 3.0 Amps Temperature Rating: -20°C to +85°C Ambient (1.0 A max.) -20°C to +75°C Ambient (2.0 A max.) -20°C to +60°C Ambient (3.0 A max.)
Mini-Clamp Sockets, 2 mm, Boardmount and SMT Series 372	 RoHS Compliant Low Profile Design Minimizes Overall Thickness Compact Design Saves Board Space Multiple PCB Locating Post Layouts to Provide Competitive Compatibility Solder Tab Design Helps Provide a Reliable Solder Joint Matching Latch Feature Provides a Reliable Interconnection in Demanding Applications High Number of Mating Cycles (300) Maximum Current Rating of 3 Amps Dust Cover Accessory Available For Use in Harsh Environments 	Contact Material: Copper Alloy Insulation Material: LCP Color: Black Flammability UL 94V-0 Plating Underplating: Nickel Wiping Area: 0.2 µm [8 µ"] Minimum Gold with Lubricant Solder Tails: Gold Flash	Current Rating: 3.0 Amps Temperature Rating: -20°C to +85°C Ambient (1.0 A max.) -20°C to +75°C Ambient (2.0 A max.) -20°C to +60°C Ambient (3.0 A max.)
Power Clamp Sockets, Headers and Branch Series 355, 356 and 357	 RoHS Compliant 5 Position Wiremount Socket Vertical Header Branch Header Easy, Labor Saving and Reliable IDC Termination Accommodates 18 - 20 AWG Discrete Wire No Special Wire Preparation Required Field Terminatable with a Common Pliers Polarization Provides Proper Interconnecting of Mated Pairs Based on CC-Link Standard 	Contact Material: Copper Alloy Insulation Body Material: Nylon Flammability UL 94V-0 Plating Underplating: 2.5 µm Minimum Nickel Wiping Area: 0.5 µm Minimum Gold Solder Tails: Gold Flash	Current Rating: 10 A Maximum (1 Contact) 7 A Maximum (2 or More Contacts) Temperature Rating: -20°C to +75°C Ambient

3M[™] WIREMOUNT CONNECTOR AND ASSEMBLY SOLUTIONS

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PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Wiremount Sockets, .100" x .100" Series 3000	 RoHS Compliant 10-60 Positions Two-Piece with Adhesive Cover for Daisy Chain or Round-to-Flat Cable Applications Plastic or Metal Strain Relief Option Positive Locking Metal Clip for High Cover Retention Open or Closed-End Covers 	Contact Material: Beryllium Copper Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating and U-Slot: 100 μ" [2.54 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold Wire Accommodation: 26 and 28 AWG Stranded	Current Rating: 1 A Temperature Rating: -55°C to +105°C
Wiremount Sockets, .100" x .100" Series 891, Series D89	 RoHS Compliant Pre-Assembled for High Efficiency Pre-Assembled, Designed to Terminate Faster Than Two-Piece Sockets, "Sword" Packaging Makes Easy Loading of Manual And Semi- Automatic Assembly Equipment "Bumps" Prevent Premature Latch Locking During Shipment Military Polarization, with or without Centerbump Optional Double-Sided Adhesive Pull Tab For Easy Unplugging Double-Recessed Cover for Cable Terminating From Either Side Virtually Eliminates Need for Single- Recessed Cover Connectors 	Contact Material: Phosphor Bronze Insulation Material: Glass Filled Polyester (PBT) Color: Gray Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 30 μ" [0.76 μm] or 10 μ" [0.25 μm] Gold Wire Accommodation: 26 and 28 AWG Stranded	Current Rating: 2 A (EIA 364-70) Temperature Rating: -55°C to +105°C
Molded Socket Assembly, .100" x .100" Series 87, 1M	 RoHS Compliant When Used with Compliant Cable 6-64 Positions Supplied as Complete Assembly Only (1M Series) Mates with Standard 0.25" Square Contacts on .100" x .100" Centers One Piece, Molded-on Construction Provides Integral Strain Relief High and Low Profile, Polarity and Pull Tab Options Available 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Plating Underplating and U-Slot: 50 - 150 μ" [1.27 - 3.81 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
Polarized Wiremount Sockets, .100" and .100" x .100" Series CHG	 RoHS Compliant 10-64 Positions Single- and Dual-Row Side-to-Side Stackable Single-Row 2-36 Positions Dual-Row 6-72 Positions Dual-Row Polarized Version IDC with Individual Strain Reliefs on Each Contact 22-28 AWG Discrete or Flat Cable Wire 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Wipe Area: 30 μ" [0.76 μm] Gold Underplating and U-Slot: 100 μ" [2.54 μm] Nickel	Current Rating: 22-24 AWG: 2 A; 26-28 AWG: 1.5 A Temperature Rating: -55°C to +105°C
Wiremount Plugs, .100" x .100" Series 4600	 RoHS Compliant 10-64 Positions Open- or Closed-End Covers Optional Ejector Latewhes Optional Mounting Flanges Plastic Strain Relief Option 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating and U-Slot: 100 μ" [2.54 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -55°C to +120°C

3M[™] WIREMOUNT CONNECTOR SOLUTIONS

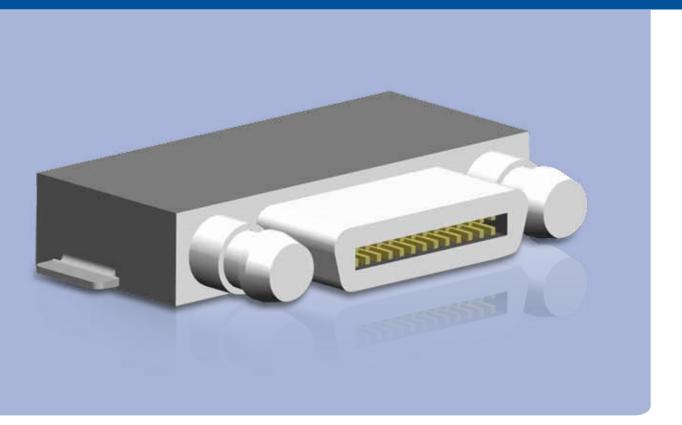
PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Tripolarized Wiremount Sockets, .050" x .100" Series 82	 RoHS Compliant Version Available 20-100 Positions Rugged Tri-Polarized Mating System High Performance Hill-n-Dale IDC Interface Metal Cover Latch Optional Metal Strain Relief Compatible with PVC, TPE and FEP Cable Insulations 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 100 μ" [2.54 μm] Nickel U-Slot: Matte Tin (RoHS compliant) or Tin-Lead Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 0.5 A Temperature Rating: -55°C to +105°C
4-Wall, Tripolarized Headers, .050" x .100" Series 81	 RoHS Compliant Version Available 20-100 Positions Straight and Right Angle Vertical SMT Option High Temperature 	Contact Material: Copper Alloy Insulation Material: High Temperature Plastic Flammability UL 94V-0 Plating Wiping Area: 30 μ" [0.76 μm] Gold Underplating: 100 μ" [2.54 μm] Nickel	Current Rating: 0.5 A Temperature Rating: -55°C to +105°C
PCB 2-Row, .100" x .100" Series 78	RoHS Compliant 10-64 Positions Low Profile 2.8 or 3.8 mm Tail Options	Contact Material: Beryllium Copper Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 100 μ" [2.54 μm] Nickel U Slot and Solder Tails: Gold Flash	Current Rating: 1 A Temperature Rating: -55°C to +105°C
PCB 4-Row, .100" x .100" Series 3400	RoHS Compliant Version Available 10-50 Positions Low Profile Design	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 100 μ" [2.54 μm] Nickel, Class 2 U-Slot and Solder Tails: 10 μ" [0.25 μm] Gold or 200 μ" [5.08 μm] Tin Lead	Current Rating: 1 A Temperature Rating: -55°C to +120°C

3M[™] WIREMOUNT CONNECTOR AND ASSEMBLY SOLUTIONS

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PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Wiremount Sockets, 2 mm x 2 mm Series 1522	 RoHS Compliant 10 - 50 Positions Rugged Cover Retention Pre-Assembled for High Efficiency Low Profile Metal Strain Relief Option Open or Closed Cover 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester (PBT) Color: Gray Flammability UL 94V-0 Plating Underplating and U-Slot: 50-150 μ" [1.27-3.81 μm] Nickel-QQ-N-290, Class 2 Wiping Area: Gold, MIL-G-45204, Type II Grade C	Current Rating: 1 A Temperature Rating: -55°C to +105°C
Molded Socket Assembly, 2 mm x 2 mm Series 87, 2M	 RoHS Compliant When Used with Compliant Cable Available in Multiple Sizes Sockets Mate with Standard 2 mm x 2 mm Headers and Plugs Molded-In Strain Relief 	Material Varies for Connectors and Cables. See Website for Specifics.	Current Rating: 1 A Temperature Rating: -55°C to +105°C
Molded PCB Assembly, .100" x .100" Series 87, 1M	 RoHS Compliant When Used with Compliant Cable 6 - 64 Positions Supplied as Complete Assembly Only (1M Series) Mates with Standard .100" x .100" Board Pattern One Piece, Molded-on Construction Provides Integral Strain Relief Straight and Retention Pin Options Available 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Plating Underplating and U-Slot: 50 - 150 μ" [1.27 - 3.81 μm] Nickel Contact Tail: 300 - 400 μ" [7.62 - 10.16 μm] Matte Tin	Current Rating: 1 A Temperature Rating: -55°C to +105°C
Molded PCB Assembly, 2 mm x 2 mm Series 87, 2M	 RoHS Compliant When Used with Compliant Cable 6-50 Positions Supplied as Complete Assembly Only (2M Series) Mates with Standard 2 mm x 2 mm Board Pattern One Piece, Molded-on Construction Provides Integral Strain Relief 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Plating Underplating and U-Slot: 50-150 μ" [1.27 - 3.81 μm] Nickel, Class 2 [2.62 - 10.10 μm] Matte Tin Contact Tail: 300-400 μ"	Current Rating: 1 A Temperature Rating: -55°C to +105°C

3M[™] DEVICE-TO-BOARD CONNECTOR SOLUTIONS

	CONNECTOR		
PRODUCT	FEATURES	MATERIALS	PERFORMANCE
CF Card Headers, CompactFlash™ Series N7E50	 RoHS Compliant Headers for Both Type I and II Cards Wide Array of Connector Size Options to Balance Between Footprint Size and Functionality 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic Flammability UL 94V-0 Plating Underplating: 2.03 μm [80 μ"] Nickel Wiping Area: 0.38 μm [15 μ"] or 0.76 μm [30 μ"] Gold	Current Rating: 0.5 A Temperature Rating: -40°C to +85°C
CF Card Ejectors, CompactFlash [™] Series 7E50	 RoHS Compliant Mates to Selected N7E50 Series CF Headers to Provide Added Ejection Functionality Multiple Button Styles and Orientations Allow Design Flexibility 	Button Material: Glass-Filled High Temperature Thermoplastic Frame Material: Stainless Steel Flammability UL 94V-0	Process Rating: 260°C (per J-STD-020C)
Serial Attached SCSI (SAS) Connectors Series SBR and SBH	 RoHS Compliant 6.0 Gbps Input/Output Connector for Backplane Applications Two Contact Mating Levels for Early-Mate and Late-Break Allows "Blind Mating" or "Hot Swap" Applications Capable of Accepting SFF-Compliant HDD Fitted with SAS or Serial Advanced Technology Attachment (SATA) Header OPTIONS Elevated Receptacle Version for Additional Backplane Stand-off Plated Through-Hole, Press-Fit or SMT Available Right Angle Version Available 29-Position Device Plugs for Drive Interface 29-Position Combo with Power 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold Solder Tails: 100 μ" [2.54 μm] Tin	Current Rating: Power Pin: 1.5 A Signal Pin: 500 mA Temperature Rating: -40°C to +85°C
Serial Advanced Technology Attachment (SATA) Connectors Series 5607 and 5622	 RoHS Compliant 3 Gbps I/O Connector for HDD Applications EMLB Contacts for Hot Swap Blind Mate Polarization Meets SATA 2.6 Specifications OPTIONS Plated Through-Hole, Press-Fit or SMT Available Extended Height Receptacles for Additional Backplane Standoff Right Angle Surfacemount Receptacle 7-Pin Signal Plug 22-Position Device Plugs for Drive Interface 22-Position Combo wih Power 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 30 - 40 μ" [0.76 μm] Gold Solder Tails: 100 μ" [2.54 μm] Tin	Current Rating: Power Pin: 1.5 A Signal Pin: 500 mA Temperature Rating: Operating Temperature: 0°C to +55°C Non-Operating Temperature: -40°C to +85°C



3D CAD models are available on the 3M website

3M Interconnects Solutions now offers 3D CAD models of select products on our website, 3M.com/interconnects.

On the website, these models can be found in the Product Search box by clicking on "3D Models" and can also be found throughout the website if you choose to search for a corresponding product first. Contact your local 3M sales representative for information on CAD models of other products.

To view or open a 3D model, you must have a CAD program and the WinZip[®] software. To download, right-click on the desired file and choose the option to "save to desktop."

3M[™] DEVICE-TO-BOARD CONNECTOR AND ASSEMBLY SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Serial Advanced Technology Attachment (SATA) Cables Series 5601, 5602	 RoHS Compliant 7-Position Serial Signal Assembly Multiple Variations in Length and Interface Attachments Point-to-Point Signaling Polarized Interface Provides Proper Alignment 26 AWG Differential Pairs Meets SATA 2.6 Specification 	Insulation Material: High Temperature Thermoplastic Plating Wiping Area: 30 μ" [0.76 μm] Gold Solder Tails: 100 μ" [2.54 μm] Tin Underplating: 50 μ" [1.27 μm] Nickel	Current Rating: 1 A Temperature Rating: -20°C to +85°C
Mini Serial Attached SCSI (miniSAS) Connectors, Series 8A26/8C26, 8A36/8B36, 8AB36	 RoHS Compliant 6 Gbps Data Rate Combination Connector with Attached Shell Available Multiple Keying Options Multiple Tail Options and Lengths Available on Shell Meets SAS 1.1 Specification Solder Hold Down Option on 26-Position Right Angle Receptacle Available External Housing Available in 1, 2 or 4 Ports 	Contact Material: Copper Alloy Insulation Material: High Temperature Thermoplastic Flammability UL 94V-0 Plating Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold Solder Tails: 100 μ" [2.54 μm] Tin	Current Rating: 0.5 A Temperature Rating: -20°C to +85°C
miniSAS External Cable Assemblies Series 8M26	 RoHS Compliant Capable of 6 Gbps Per Channel Data Rate 26 Conductor Signal Assembly Multiple Lengths Available Metal Latch Pull Tab Ring Provides Easier Unmating Two Levels of EMLB for Hot Plugging Multiple Key Options Available 	Connector Backshell Material: Zinc Diecast Plating 30 μ" [0.76 μm] Nickel Contact PCB Material: FR4 Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold Cable Conductor: Tin Plated Solid Conductor (AWG Depends on Length) Drain Wire: Tin Plated Solid Conductor Dielectric: Foam Polyethylene Shield: Mylar Jacket: Non-PVC Pulltab Material: Nylon Color: Blue	Current Rating: Per Contact: 0.5 A Operating Temperature: -20°C to +75°C

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
MDR Wiremount Plugs - IDC Series 101XX-60X0, 101XX-8000	 RoHS Compliant 14-100 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging Digital LCD Interface as a 20 or 26 Contact Connector IEEE 1284C Interface as a 36 Contact Connector Camera Link® Interface as a 26 Contact Connector Accepts a Wide Variety of Cable Constructions Including Split, Flat, Round, Twisted Pair and Twinax Cables Accepts a Wide Variety of Shielded Junction Shells OPTIONS Plastic-Non Shielded Version Termination Tools Junction Shells 	Contact Material: Beryllium Copper Insulation Material: Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.0 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -20°C to +85°C
MDR Wiremount Plugs - Solder Series 101XX-3000	 RoHS Compliant Version Available 14-50 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging Solder Cup Termination Requires No Special Tooling Accepts a Wide Variety of Discrete Wire (24 to 30 AWG) Cable Construction OPTIONS Junction Shells Camera Link Interface as a 26 Contact Connector 	Contact Copper Alloy Insulation Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.0 μm] Nickel Wiping Area: Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
MDR Panelmount Receptacles - IDC Series 102XX-0210	 RoHS Compliant 20-68 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging IEEE 1284C Interface as a 36 Contact Connector Interface Latch Design for Connection Stability Accepts a Wide Variety of Cable Constructions Including Flat, Shielded Flat and Twisted Pair Cables Replaces Boardmount Receptacle When a Wire Transition Is Needed OPTION Wire Termination Tools Camera Link Interface as a 26 Contact Connector 	Contact Material: Beryllium Copper Insulation Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.0 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -20°C to +85°C
MDR Junction Shells, Round Cable Exit, Plastic Series 103XX	 RoHS Compliant 14-80 Positions Durable One-Piece Plastic Over Two-Piece Metal Junction Shell for Straight Round Cable (Compatible with 101XX-6000 EC Plug) MDR Digital LCD Interface as a 20 or 26 Contact Connector OPTIONS 	Outer Shell Material: ABS Inner Shell Material: Steel Flammability UL 94V-0 Plating Nickel	

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PRODUCT	FEATURES	MATERIALS	PERFORMANCE
MDR Junction Shells, Round Cable Exit, Metal Series 103XX	 RoHS Compliant 14-100 Positions Metal Junction Shell for Round Cable Rugged Two-Piece Die Cast Metal Shell with Round Straight Exit (Compatible with 101XX-6000 EC Plug) Reliable Metal Strain Relief Clamp Provides Grounding for Cable Shield Excellent EMI/ESD Protection Quick Release Latching Mechanism OPTION 60 Degree Cable Relief Option 	Shell Aluminum Plating Nickel	
MDR Junction Shells, Flat Cable Exit, Metal Series 103XX	 RoHS Compliant Metal Junction Shell for Flat Cable 20-50 Positions Rugged Two-Piece Metal Shells for High Performance Pleated Foil Cable Assemblies (Compatible with 101XX-6000 EC Plug) Kit Includes Conductive Gasket for Cable Shield to Shell Continuity Accepts 3M 50 Ohm PFC Cables 	Shell Material: Zinc Gasket Material: Elastomer with Conductive Fibers Plating Nickel	
MDR Junction Shells, Flat Cable Exit, Metal Series 103XX	 RoHS Compliant Rugged Two-Piece Metal Junction Shell for Straight Flat Cable (Compatible with 101XX-6000 EC Plug) 68-100 Positions Jackscrew Latching for Connection Stability Kit Includes Gasket for Cable Shield to Shell Continuity. Accepts 3M[™] PFC Cables, 50 Ohm 	Shell Zinc Gasket Material: Elastomer with Conductive Fibers Plating Nickel	
MDR Junction Shells, Round Cable, Solder Cup Series 103XX	 RoHS Compliant 14-50 Positions Design Features Durable Two-Piece Glass Reinforced Polyester Backshell with Ground Strap (Compatible with 101XX-3000 Plug) Round Straight Exit Reliable Metal Strain Relief Clamp Provides Grounding for Cable Shield Quick Release Metal Latching Mechanism 	Outer Shell Glass Reinforced Polyester Cable Clamp and Ground Plate Material: Stainless Steel Flammability UL 94V-0	Temperature Rating: -20°C to +85°C

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
<image/>	 RoHS Compliant Version Available 20-36 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging SMT Compatible PCT Insulator Material Screw Lock-Down for Reliable PCB Retention Interface Latch Design for Connection Stability IEEE 1284C Interface as a 36 Contact Connector Camera Link® Interface as a 26 Contact Connector Opst Covers Board Lock and Panel Mount Hardware 	Contact Copper Alloy Insulation Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
<section-header></section-header>	 RoHS Compliant Version Available 14-50 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging Ultra-Low Signal Skew for High Data Rate Transmission Interface Latch Design for Connection Stability Digital LCD Interface as a 20 or 26 Contact Connector Camera Link® Interface as a 26 Contact Connector Contacts: 14, 20, 26, 40 and 50 	Contact Copper Alloy Insulation Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 20 μ" [0.50 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
MDR Boardmount Receptacles, PTH Vertical Series 102XX	 RoHS Compliant Version Available 14-100 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging Rugged Die Cast Metal Case Construction Screw Lockdown for Reliable PCB Retention Interface Latch Design for Connection Stability IEEE 1284C Interface as a 36 Contact Connector OPTIONS Dust Covers Board Lock and Panel Mount Hardware 	Contact Copper Alloy Insulation Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -20°C to +85°C

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PRODUCT	FEATURES	MATERIALS	PERFORMANCE
<section-header></section-header>	 RoHS Compliant 14-100 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging Rugged Die Cast Metal Case Construction OPTIONS Dust Covers Board Lock and Panel Mount Hardware 	Contact Copper Alloy Insulation Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -20°C to +85°C
MDR Boardmount Receptacles, PTH Right Angle Series 102XX	 RoHS Compliant 14-100 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging Rugged Die Cast Metal Case Construction Available SMT Compatible PCT Insulator Material Screw or Ground Lock for Reliable PCB Retention Interface Latch Design for Connection Stability IEEE 1284C Interface as a 36 Contact Connector OPTIONS Stamped Metal Face and Die Cast Versions Dust Covers Board Lock and Panel Mount Hardware 	Contact Copper Alloy Insulation Glass Reinforced Polyester (PCT) Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
MDR Boardmount Receptacles, PTH Right Angle Condo Series 102XX	 RoHS Compliant Version Available Positions 40 (2 x 20), 100 (2 x 50) and 136 (2 x 68) Wiper-on-Wiper Contact for Reliable Repetitive Plugging Rugged Die Cast Metal Case Construction Screw Lockdown for Reliable PCB Retention Interface Latch Design for Connection Stability Stacked Receptacles Save Board Space OPTIONS Dust Covers Board Lock and Panel Mount Hardware 	Contact Copper Alloy Insulation Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 20 μ" [0.50 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -20°C to +85°C
MDR Boardmount Plugs, PTH Vertical Series 101XX	RoHS Compliant Version Available Wiper-on-Wiper Contact for Reliable Repetitive Plugging Contacts: 50 and 100	Contact Material: Copper Alloy Insulation Material: Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 8 μ" [0.20 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -20°C to +85°C

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PRODUCT	FEATURES	MATERIALS	PERFORMANCE
MDR Boardmount Plugs, PTH Right Angle Series 101XX	 RoHS Compliant Version Available 20-50 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging Rugged Die Cast Metal Case Construction Screw or Ground Lock PCB Retention IEEE 1284C Interface as a 36 Contact Connector OPTIONS Normal and Reverse "D" Interface Options Panel and Board Locking Hardware 	Contact Copper Alloy (C521) Insulation Glass Reinforced Polyester-Body Glass Reinforced Polyester-Alignment Plate Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -20°C to +85°C
MDR Boardmount Plugs, Straddlemount Series 101XX	 RoHS Compliant Version Available 26, 50, 68 and 100 Positions Wiper-on-Wiper Contact for Reliable Repetitive Plugging Solder Tails Require No Special Tooling 	Contact Copper Alloy (C521) Insulation Glass Reinforced Polyester-Body Glass Reinforced Polyester-Insert Mold Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -20°C to +85°C
MDR Connectors, 68-Position BM SCSI Footprint Series 102	 RoHS Compliant Reverse Pin Layout — SCSI-2 Board Compatible Proven Reliability of the MDR Ribbon Contact Interface 	Contact Material: Copper Alloy Insulation Material: Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.03 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Minimum Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
MDR Connectors, 1S10 Series 102	 RoHS Compliant Rugged Die Cast Body Resists Tipping During Automated Soldering Operations Wiper-On-Wiper Contact for Reliable Repetitive Plugging Ultra-Low Signal Skew for High Data Rate Transmission Interface Latch Design for Connection Stability Suitable for Thumbscrew Attach (See TS-0142 for Available Hardware) MDR Digital LCD Interface as a 20 or 26 Contact Connector Camera Link[®] Interface as a 26 Contact Connector Contact: 14, 20, 26, 40 and 50 	Contact Material: Copper Alloy Body Material: Glass Reinforced Polyester (PCT) Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area Plating: See Ordering Information	Current Rating: 1 A Temperature Rating: -55°C to +85°C

3M[™] INPUT/OUTPUT CONNECTOR & CABLE ASSEMBLY SOLUTIONS MINI DELTA RIBBON (MDR)

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
MDR Cable Assemblies, Power Over Camera Link® Series 1SXXX, 1MXXX	 RoHS Compliant 3M Is One of the Recognized Leaders in Camera Link[®] Connectivity Supports Base Configuration Power over Camera Link[®] Applications Straight or Right Angle Cable Exit Flexible Cable Options Available for Moving Head Applications SDR-to-SDR and SDR-to-MDR Configurations Available for Cross-Platform Use 	Materials Vary for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.	Current Rating: 0.5 A Temperature Rating: 0°C to +75°C
MDR Cable Assemblies, Round Cable, Input/Output Series 14XXX, 4926, 4120	 RoHS Compliant Pending on Some Versions 14-100 Positions 0.50° Pitch Ribbon Style Contact Provides Reliable Mating and Is Industry Preferred Compatible for a Variety of LVDS, IEEE 1284, PanelLink™, TMDS, Flat Link™, and Channel Link™, OpenLDI and QuadLDI Applications Mates with Standard 3M MDR Boardmount Products Unshielded or Sheilded Twisted Pair or Twinax Cable Options Contact 3M for Custom Configurations 	Materials Vary for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.	Current Rating: 1 A Temperature Rating: -20°C to +75°C
MDR Cable Assemblies, Camera Link® Series 1XX26	 RoHS Compliant 3M Is One of the Recognized Leaders in Camera Link[®] Connectivity Versions Available to Support Base, Medium and Full Configuration Camera Link[®] Applications Straight or Right Angle Cable Exit Flexible Cable Options Available for Moving Head Applications Extension Cables for Bulkhead/Feed-Through 	Materials Vary for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.	Performance Varies by Type. See Tech Sheets.
MDR Pleated Foil Input/Output Cable Assemblies Series OM, LS	 RoHS Compliant Offers Superior Combination of High-Density, Electrical Performance, Shielding and Durability Allows Digital Data Rates of up to 200 Megabits Per Second Per Conductor Mates with Standard 3M MDR Boardmount Connectors Pleated Copper Foil Provides 360 Degree Shield and Allows Coax-Like Performance Overmolded and Metal with Latching and Thumbscrew Shells Available Position Sizes from 20-100 	Materials Vary for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.	Temperature Rating: 75°C Maximum

3M[™] INPUT/OUTPUT CONNECTOR AND CABLE ASSEMBLY SOLUTIONS

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PRODUCT	FEATURES	MATERIALS	PERFORMANCE
<section-header></section-header>	 RoHS Compliant 14-50 Positions Wiper-on-Wiper Contact for Reliable Repetitive Mating Ground Lock for Reliable PCB Retention Full Metal Face for Better EMI Shielding Effectiveness On-Board Jacksockets Maintains a Secure Connection OPTIONS Surfacemount and Through-Hole Right Angle and Vertical Panel and Board Lock Hardware Mini Camera Link[®] Interface as a 26 Contact Connector 	Contact Phosphor Bronze Insulation Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 80 μ" [2.00 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 0.5 A Temperature Rating: -40°C to +70°C
Shrunk Delta Ribbon (SDR) Cable Assemblies, .80 mm, Mini Camera Link® Series 1MG, 1MF, 1SF	 RoHS Compliant Supplied as a Complete Assembly Only Supports New AIA Industrial Camera Link® Standard for Mini C/L Camera to C/L Frame Grabber Applications 11 Shielded Twisted Twinax Pairs with Four Drain Wires Double Overall Shield with Foil and Outer Braid EMI Shielded Cable Assembly Straight and Right Angle Configurations Available SDR-to-SDR and MDR- to-SDR Options Available Mates with 3M SDR and MDR Boardmount Products 	Material Varies for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.	Current Rating: 0.5 A Temperature Rating: 0°C to 70°C
Shielded Compact Ribbon (SCR) Connectors Series 361, 362, 363	 RoHS Compliant Robust, Vibration Resistant Connection Up to 1A per Pin (Signal or Power) 10 Pin Plug/Receptacle Solder Termination — No Tooling Required EMI Shielded Multiple Boardmount and Wiremount Configurations for Design Flexibility 	Contact Material: Copper Alloy or Phosphor Bronze Insulation Material: Glass Reinforced LCP or Nylon Flammability UL 94V-0 Plating Underplating: Nickel Wiping Area: See Ordering Information Termination Area: See Ordering Information	Current Rating: 1 A Temperature Rating: -55°C to +85°C
<section-header></section-header>	 RoHS Compliant Compatible with Popular IEEE 1394 I/O Interconnect Standard Robust, Vibration Resistant Connection with Secure Latching System Up to 1A per Pin (Signal or Power) 6 Pin Plug/Receptacle Solder Termination — No Tooling Required EMI Shielded 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 50μ" - 100 μ" [1.27 μm - 2.54 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold Termination Area: See Ordering Information	Current Rating: 1 A Temperature Rating: -20°C to +85°C

3M[™] INPUT/OUTPUT CONNECTOR AND CABLE ASSEMBLY SOLUTIONS

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PRODUCT	FEATURES	MATERIALS	PERFORMANCE
D Sub Plugs IDC Mass Terminated Series 8200	 RoHS Compliant 9-50 Positions Available in Either Open or Closed-End Cover Shell Dimples to Aid in EMI/ESD Protection Metal Strain Relief Hooks Directly to Metal Shell Low Profile Open (Except 50) or Threaded (SAE or Metric) Mounting Holes OPTIONS Mounting Hardware Open and Closed-End Covers 	Contact Material: Copper Alloy Insulation Material: Glass Reinforced Polyester Flammability UL 94V-0 Plating Underplating: 100 μ ^a [2.54 μm] Nickel Wiping Area: 30 μ ^a [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
D Sub Receptacles IDC Mass Terminated Series 8300	 RoHS Compliant 9-50 Positions Available in Either Open or Closed-End Cover Metal Strain Relief — Hooks Directly to Metal Shell Low Profile Open (Except 50) or Threaded (SAE or Metric) Mounting Holes OPTIONS Mounting Hardware Open and Closed-End Covers 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Flammability UL 94V-0 Plating Underplating: 100 μ [*] [2.54 μm] Nickel Wiping Area: 30 μ [*] [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
D Sub - Junction Shell Round Cable, Metal Series 3357	 RoHS Compliant Provides EMI/ESD Protection Similar to Aluminum Die Cast Easy Assembly Reduces Time and Labor to Ensure Low Applied Cost Optional Thumbscrew Kit Provides Option in Grounding for Discrete Wire Applications Lightweight, Compact Design OPTIONS Thumbscrew Kit Retainer Rings 	Cover Nut Material: Glass Filled Polyester Shell and Hardware Material: Steel Flammability UL 94V-0 Plating Nickel	
D Sub - Junction Shells Round Cable, Plastic Series 3357	 RoHS Compliant Protection from EMI/ESD Easy Assembly Reduces Time and Labor for Low Cost Lightweight and a Compact Design Strain Relief Compensates for Multiple Cable Diameters Jackscrews Provide Positive Retention OPTIONS 60 Degree Relief Cable Exits 	Shell and Hardware Shell Material: ABS Insulation Material: Thermoplastic Elastomer Flammability UL 94VO Plating Bright Zinc	Temperature Rating: 0°C to +75°C
D Sub - Junction Shells Flat Cable Series 3485	 RoHS Compliant Uses Standard Hardware Lightweight, Compact Size Full Family of Sizes OPTIONS EMI Versions Available 	Shell Material: Glass Filled Polyester Flammability UL 94V-0	Temperature Rating: -55°C to +105°C

3M[™] CABLE SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Round Conductor Flat Cable Series 3365, 3355, 2010, 3601	 RoHS Compliant 28 AWG Wire on .050 Inch Centers Permits Mass Termination to a Broad Line of IDC Connectors Stranded Wire Provides Flexibility and Extended Product Life Zippable for Branching or Discrete Termination Series 3365 Available in Gray or Black 2010 Is Halogen Free OPTIONS .025'', .033'', .050'', 1 mm, .100'' and .156'' Center Line 18, 22, 24, 26, 28 and 30 AWG Conductors Solid and Stranded Conductors Multiple Roll Lengths UL/CSA Marking Line PVC Jacket Options Split Sections For Other Variations, See Website 	Insulation Material: Polyvinyl Chloride TPE, FEP, PO Insulators	Flammability USA: VW-1 Canada: FT-1 Temperature Rating: -20°C to +105°C Voltage: USA 300V, Canada: 150V, EU: <50V
Extended Flex Life - Flat Cable Series 3319, 3539	 RoHS Compliant Flex Life of 100 Million Cycles at 1 3/4 Inch Diameter High Strength Copper Alloy Provide the Longest Flex Life Available for Dynamic Applications 28 AWG Wire on .050 Inch Wire Spacing Permits Mass Termination to a Broad Line of IDC Connectors Zippable for Branching or Discrete Termination OPTIONS High Flex Medium Flex 	Insulation Material: Polyvinyl Chloride	Flammability USA: VW-1, Canada FT-1 Temperature Rating: -20°C to +105°C Voltage: USA 300V, Canada: 150V, EU: <50V
Twisted Pair Flat Cable Series 1700, 2100, 3782	 RoHS Compliant Wires Are Color-Coded for Easy Identification Twist and Flat Repeat Has Variable Length Option Can Be Mass Terminated to a Broad Line of IDC Connectors Provides Reduced Crosstalk in Balanced Drive Applications 28 AWG Stranded Wire Provides Flexibility and Extended Product Life 10-Color Repeat 2100 Is Halogen Free OPTIONS Variable Twist and Flat Repeat Lengths 	Insulation Material: Polyvinyl Chloride or PO Insulators	Flammability USA: VW-1 Canada: FT-1 Temperature Rating: USA: -20°C to +105°C Canada: -20°C to +80°C Voltage: USA 300V, Canada: 150V, EU: <50V
Round Jacketed Flat Cable Series 3659, 3759, 3758, 3896	 RoHS Compliant Round Construction Permits Easier Routing 28 AWG Wire on .050 Inch Pitch Permits Mass Termination to Broad Line of IDC Connectors Continuous Split/Bond Repeat Allows for Mass Termination on 2.4 Inch Centers (Approximate) Primary Cable Is Zippable for Branching or Discrete Terminations Meets External Wiring Requirements of National Electrical Code, Article 725 (CL2) UL Listed for USA and Canadian Markets Dual Shielding Provides 35 db Average Shielding Effectiveness OPTIONS .050" Centerline .26, 28 and 30 AWG Conductors Solid and Stranded Conductors Shielded and Non-Shielded Versions 	Jacket Material: Polyvinyl Chloride or PO Insulators	Flammability USA: N.E.C. 725, CL2 Canada: FT-1 Temperature Rating: USA: CL2; 75°C Max or AWM; -20°C to +80°C, Canada: 80°C Voltage: USA 300V, Canada: 150V, EU: <50V
24			3M com/interconnects

3M[™] CABLE SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Color Coded Flat Cable Series 3302, 3811	 RoHS Compliant 28 AWG Wire on .050 Inch Centers Permits Mass Termination to a Broad Line of IDC Connectors Stranded Wire Provides Flexibility and Extended Product Life Zippable for Branching or Discrete Termination Color Coded for Wire Identification OPTIONS 22, 26 and 28 AWG Conductors 100", .156" Centerline 	Insulation Material: Polyvinyl Chloride	Flammability USA: VW-1 Canada: FT-1 Temperature Rating: USA: -20°C to +105°C Canada: -20°C to + 80°C Voltage: USA 300V, Canada: 150V, EU: <50V
Round Jacketed Discrete Twisted Pair Cable Series 3600, 3644	 RoHS Compliant Meets External Wiring Requirements of National Electrical Code, Article 725 (CL2) 28 AWG Stranded Wire Provides Flexibility Twisted Pairs Reduce Crosstalk for Balanced Drive Applications Dual Shielding with Aluminum Film Foil and Copper Braid Provides Excellent EMI/ESD Protection Wires Are Color-Coded for Easy Identification 35 db Average Shielding Effectiveness OPTIONS 26 and 28 AWG Conductors 	Jacket Material: Polyvinyl Chloride and PO Insulators and Jacket	Flammability USA: N.E.C.725, CL2 Canada: FT-1 Temperature Rating: USA: CL2 75°C Max, Canada: 80°C Voltage: USA 300V, Canada: 150V, EU: <50V
Pleated Foil Flat Cable Series 901XX, 902XX, 931XX	 RoHS Compliant Compatible with IDC Mass Termination Connectors Functions with Applications Requiring Standard Impedance of 100Ω Balanced (Differential) Extremely Low Crosstalk, Used in the All-Signal Mode to Quadruple Signal Density as Compared to Standard .050 Inch Flat Ribbon Cable Solid Pleated Copper Foil Provides Flexibility and 35 db Average Shielding Effectiveness CL2 Rated, Rugged Design and High Reliability for Peripheral Applications OPTIONS .025" and .050" Centerline 28 and 30 AWG Conductors Thick and Thin Jacket Options Low Skew Versions 	Jacket Material: TPE with PVC and TPE Jacketing Materials	Flammability USA: N.E.C. 725, CL2, Canada: FT-1 Temperature Rating: USA: CL2: 75°C; Canada: 80°C Voltage: USA 300V, Canada: 150V, EU: <50V

3M[™] CABLE ASSEMBLY SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Molded Flat Ribbon Assemblies Series 87, 1M and 2M	 RoHS Compliant 10-60 Positions Two-Piece with Adhesive Cover for Daisy Chain or Round-to-Flat Cable Applications Plastic or Metal Strain Relief Option Positive Locking Metal Clip for High Cover Retention Open or Closed-End Covers 	Contact Material: Copper Alloy Insulation Material: Glass Filled Polyester Plating Underplating and U-Slot: 100 μ" [2.54 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold	Current Rating: 1 A Temperature Rating: -55°C to +105°C
Mini Delta Ribbon (MDR) Cable Assemblies, Round Cable, Input/Output Series 14XXX, 4926, 4120	 RoHS Compliant Pre-Assembled for High Efficiency Pre-Assembled, Terminates Faster Than Two-Piece Sockets "Sword" Packaging Makes Easy Loading of Manual and Semi-Automatic Assembly Equipment "Bumps" Prevent Premature Latch Locking During Shipment Military Polarization, With or Without Centerbump Optional Double-Sided Adhesive Pull Tab for Easy Unplugging Double-Recessed Cover for Cable Terminating from Either Side Virtually Eliminates Need for Single-Recessed Cover Connectors 	Contact Material: Phosphor Bronze Insulation Materiai: Glass Filled Polyester (PBT) Color: Gray Plating Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 30 μ" [0.76 μm] or 10 μ" [0.25 μm] Gold Wire Accommodation: 26 and 28 AWG Stranded	Current Rating: 2 A (EIA 364-70) Temperature Rating: -55°C to +105°C
MDR Cable Assemblies, Power over Camera Link® Series 1SXXX, 1MXXX	 RoHS Compliant 3M Is One of the Recognized Leaders in Camera Link® Connectivity Supports Base Configuration Power over Camera Link® Applications Straight or Right Angle Cable Exit Flexible Cable Options Available for Moving Head Applications SDR-to-SDR and SDR-to-MDR Configurations Available for Cross-Platform Use 	Materials Vary for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.	Current Rating: 0.5 A Temperature Rating: 0°C to +75°C
MDR Cable Assemblies, Camera Link® Series 1XX26	 RoHS Compliant 3M Is One of the Recognized Leaders in Camera Link® Connectivity Versions Available to Support Base, Medium and Full Configuration Camera Link® Applications Straight or Right Angle Cable Exit Flexible Cable Options Available for Moving Head Applications Extension Cables for Bulkhead/Feed- Through 	Materials Vary for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.w	Performance Varies by Type. See Tech Sheets.
Mini Delta Ribbon (MDR), Pleated Foil Input/Output Cable Assemblies Series OM, LS, MS	 RoHS Compliant Offers Superior Combination of High-Density, Electrical Performance, Shielding and Durability Allows Digital Data Rates of up to 200 Megabits per Second per Conductor Mates with Standard 3M MDR Boardmount Connectors Pleated Copper Foil Provides 360 Degree Shield and Enables Coax-Like Performance Overmolded and Metal with Latching and Thumbscrew Shells Available Position Sizes from 20-100 	Materials Vary for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.	Temperature Rating: 75°C Maximum

3M[™] CABLE ASSEMBLY SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
Shrunk Delta Ribbon (SDR) Cable Assemblies, .80 mm, Input/Output Series 1MG, 1MF, 1SF	 RoHS Compliant Supplied as a Complete Assembly Only Supports New AIA Industrial Camera Link[®] Standard for Mini C/L Camera to C/L Frame Grabber Applications 11 Shielded Twisted Twinax Pairs with Four Drain Wires Double Overall Shield with Foil and Outer Braid EMI Shielded Cable Assembly Straight and Right Angle Configurations Available SDR-to-SDR and MDR-to-SDR Options Available Mates with 3M SDR and MDR Boardmount Products 	Insulation Material: Polyvinyl Chloride Plating Underplating: 100 μ" [2.55 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Minimum Gold Materials Vary for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.	Current Rating: 1 A Temperature Rating: -20°C to +85°C
Serial Advanced Technology Attachment (SATA) Power Cable Series 5601	 RoHS Compliant 15-Position Power Cable Rugged Over-Molded Construction Provided in Standard Lengths "Y" Type Supports Multiple Devices 	Insulation Material: High Temperature Thermoplastic Plating Wiping Area: 30 μ" [0.76 μm] Gold Solder Tails: 100 μ" [2.54 μm] Tin Underplating: 50 μ" [1.27 μm] Nickel	Current Rating: 1 A Temperature Rating: -20°C to +85°
Serial Advanced Technology Attachment (SATA) Signal Cable Series 5602	 RoHS Compliant 7-Position Serial Signal Assembly Multiple Variations in Length and Interface Attachments Point-to-Point Signaling Polarized Interface Ensures Proper Alignment 26 AWG Differential Pairs Meets SATA 2.6 Specification 	Insulation Material: High Temperature Thermoplastic Plating Wiping Area: 30 μ" [0.76 μm] Gold Solder Tails: 100 μ" [2.54 μm] Tin Underplating: 50 μ" [1.27 μm] Nickel	Current Rating: 1 A Temperature Rating: -20°C to +85°C

3M[™] CABLE ASSEMBLY SOLUTIONS

PRODUCT	FEATURES	MATERIALS	PERFORMANCE
<text></text>	 PERFORES PARTORES PAR	Materials Vary for Connectors, Cables, Shells and Jackscrews. See Website for Specifics.	Current Rating: 0.5 A Temperature Rating: -20°C to +80°C
Mini Serial Attached SCSI (miniSAS) Cable Assembly, Series 8M26	 RoHS Compliant Capable of 6 Gbps Per Channel Data Rate 26 Conductor Signal Assembly Multiple Lengths Available Metal Latch Pull Tab Ring Provides Easier Unmating Two Levels of EMLB for Hot Plugging Multiple Key Options Available 	Connector Backshell Material: Zinc Diecast Plating 30 μ" [0.76 μm] Nickel Contact PCB Material: FR4 Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: 30 μ" [0.76 μm] Gold Cable Conductor: Tin Plated Solid Conductor (AWG Depends on Length) Drain Wire: Tin Plated Solid Conductor Dielectric: Foam Polyethylene Shield: Mylar Jacket: Non-PVC Pulltab Material: Nylon Color: Blue	Current Rating: Per Contact: 0.5 A Operating Temperature: -20°C to +75°C

3M[™] CABLE ASSEMBLY SOLUTIONS HIGH SPEED ASSEMBLIES

		ASSEIVIBLIE	3
PRODUCT	FEATURES	MATERIALS	PERFORMANCE
SCI Latch/Eject 2 mm Development Kit	 1 Gbps Single-Ended, 5 Gbps Differential or Mix and Match Cable-to-Board Solution Robust Latching for Mechanically Challenging Environments Low Crosstalk and Skew Upgrade to Higher Speed and Better Crosstalk for Molded and IDC Cable Assemblies High Density – 2 mm Pitch – Upgrade from 0.100" Vertical SMT and Through-Hole Options Available 	Material Varies for Connectors and Cables. See Website for Specifics.	1 Gbps Single-Ended, 5 Gbps Differential
Shielded Controlled Impedance (SCI) Assemblies High Speed Series 98	 RoHS Compliant Version Available Robust Metal Grounded Connectors Provide EMI Shielding and Controlled Impedance for Industry Leading Signal Integrity and Performance Various Carrier Types and Sizes for .100° 2 mm SCI Connectors 		
SCI Cable Assembly, .100"	 .100" (2.54 mm) Center Spacing Available in Stand-Alone and Carrier 	Contact Material: Beryllium Copper	Current Rating: 1 A Temperature Rating: -55°C to +105°C
	Versions Stand-Alone Version • Available in Right Angle and Straight Configurations • Mates with 3M Two-pin Headers Carrier Version • Available in Straight Configuration Designed for Use with the 3M SCI Carrier System • Mates with .100° x .100° Headers • Carriers May Be Purchased Separately • Up to 3 Gbps Performance	Insulation Material: Thermoplastic	
SCI Cable Assembly, 2 mm	 High Density 2.0 mm Center Spacing Available in Carrier Versions Only Mates with Compact PCI®, HSHM, Futurebus® and 3M[®] Pin Strip Headers, 1512 Series Provides over 12 Gbps Performance Available with High Performance Coaxial or Twinaxial Cables Available With or Without External Ground Clips 	Contact Material: Beryllium Copper Insulation Material: Thermoplastic	Bandwidth: Rated for Applications Requiring up to 12 Gbps Performance Current Rating: 1 A Temperature Rating: -40°C to +105°C
Custom Harness Assemblies	 Available with 0.100" and 2 mm SCI Double-Ended SCI with Carrier or Optional Spring Probe Termination Controlled Impedance Through the Interface to Provide Minimal Reflections Low-loss, Low Crosstalk and Low Skew to Provide Industry Leading Eye Openings and Performance Available in Differential or Coaxial Cable Configurations Contact 3M for Custom Configurations Otom Harness Assemblies Compatible with Standard .100" x .100" Headers Standard Carriers Available M Harness Assemblies Compatible with CompactPCI®, HSHM, Futurebus® and 3M" Pin Strip Headers, 1512 Series Industry Leading Signal Density of up to 101 Signals per Linear Inch Surfacemount 3-Wall Header Available 		



Available 3MTM Cable Assembly Types:

Mini Delta Ribbon (MDR)

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- Micro Coaxial
- Mini Serial Attached SCSI (miniSAS) Monosignal (Mini Coaxial)
 Pleated Foll Covered (PFC)
 - Serial Advanced Technology Attachment (SATA)

Molded Flat Ribbon, .100" and 2 mm

- Serial Attached SCSI (SAS)
- Shielded Controlled Imdepance (SCI)
- SCSI and Shrunk Delta Ribbon (SDR)

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