New Product Release Summary for 3M Authorized Distributors

3M™ Power Clamp Wiremount Socket, Wiremount Plug, Boardmount Header, 35X Series and 3M™ Round Conductor Cable, 79100 Series

Issue Number: 749
Date: May 10, 2010

Fast Facts

- CLPA standardized 3M Power Clamp Connectors interface for CC-Link IP20 connector
- CLPA conformance tested and compatible 3M Round Conductor Flat Cables 79100 Series
- Round Jacketed/Jacketed Shielded Discrete Wire Cables - Flexible constructs for motion applications
- Flat Ribbon Cables for the 3M™ Link Connector – CLPA and non-CLPA
- Excellent solution for field bus systems, network interconnecting and power/signal distribution
- Reduce intermatability issues relative to interconnecting different factory automation equipment or devices
- Branch connectors to simplify serial interconnections from module-to-module
- One-touch positive latching
- Built-in dual function dust cover and latch with the wiremount plug
- Easy, labor saving and reliable IDC termination for both discrete wire
- “Just Squeeze” wire termination with a standard pliers - easy field termination with no special wire preparation – no stripping, no tinning, no special tooling
- Design accepts multiple wire diameters (1.6 – 3.0 mm) and conductor sizes (18 - 20 AWG)
- Virtually no waste or debris from termination process
- Wiring reduction solution when leveraging the complete 3M offering
- Enables wire-to-wire interconnecting for extension applications
- Current rating (up to 10 amps for one contact/7 amps with multiple contacts)
- Voltage rating = 250 volts
- 2 types of polarizations
- EU RoHS Compliant* and labeled pursuant to China RoHS marking standard SJ/T 11364-2006

Product Description – 3M Power Clamp Connectors

3M Power Clamp Connectors are designed to provide connection reliability and cost performance in I/O applications commonly found in a wide range of industrial controls systems, networking systems, medical equipment and factory automation. The Power Clamp offering is suitable for CLPA’s CC-Link open technology field level networking applications and protocols. This will help reduce intermatability issues relative to interconnecting a variety of different factory automation equipment. The applications
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include integrating a wide range of automation devices, from numerous suppliers, on a single network. It is designed to provide outstanding I/O performance and efficiency through reduced wiring. The Power Clamp solution significantly helps reduce the amount of control and power wiring needed in today’s complex production lines. In turn, it provides flexibility in constructing production lines, using CLPA partner products and helps eliminate the confusion of interconnecting automation equipment since the Power Clamp offering is part of CLPA’s CC-Link standard.

Power Clamp Connectors are also suitable for many applications beyond CLPA where signal and power need to be distributed.

3M Power Clamp products use the advantage of 3M’s IDC technology and are designed to provide a safe and reliable electrical connection between control units and devices (servo drives, stepper drives, vision, human machine interfaces, IO and other controllers). These connectors do not require any special tooling or pre-treatment of cables such as stripping and tinning, and can be easily and simply terminated using a standard pair of pliers.

Benefits of Power Clamp products include:

- a simple installation process that does not create virtually any material debris or waste;
- a labor saving IDC termination process relative to traditional interconnect alternatives;
- ease of assembly for system building; and a design that provides for consistent quality and reliability – “Just Squeeze” together to complete a high reliable wire to contact termination.

Features include

- a semi-transparent, color-coded cover to allow for proper wire usage;
- wire alignment built into the cover all to allow for proper wire termination; and
- latches and polarization to allow for proper mating of the connectors.

Power Clamp Connectors are part of a serial field bus system solution that may reduce the space of wires used to interconnect factory automation equipment when compared to parallel wiring approaches. The total field installation costs (assembly and wiring) may be significantly reduced when used with the complete line of 3M™ Mini-Clamp Connectors, 3M™ Link Connectors and Power Clamp product offerings. The termination process of traditional connectors (crimp connectors or terminal blocks) can be complicated, labor intensive and can typically create debris and waste which may be an issue in clean room environments found in semiconductor, LCD and medical applications. This 3M offering provides for an easier and virtually debris-free wire termination process.

The connectors have an integrated guide built into the cover, which provides reliable positioning of the individual wires. The semi-transparent cover allows for visual inspection of the wire position prior to the termination of the wire to the IDC. This IDC-style connector helps reduce maintenance work by providing higher connection reliability and helps alleviate the need for cable preparation such as stripping and tinning. Polarizing tabs help provide proper mating and latching devices help maintain a reliable connection, even under severe conditions such as mechanical stress and vibration in industrial environments.
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The Power Clamp Connector family offers a series of different mounting connectors. The family consists of the 355 series wiremount socket which in turn could be mated to a 358 series wiremount plug for wire-to-wire, mid-span or panel mount interconnection applications or cable extension applications. The wiremount plug has a built-in dual function dust and latch, which are designed to provide protection while the connector is in the unmated state as well as retention when mated.

The wiremount socket can be mated to a connector mounted on a PCB using the 356 series boardmount connectors of straight or right angled mounting style with the choice of single- or double-row configuration.

<table>
<thead>
<tr>
<th>3M Wiremount Connector</th>
<th>Product Number</th>
<th>Color</th>
<th>Adaptability</th>
<th>AWG No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiremount Socket</td>
<td>35505-6000-B0M GF</td>
<td>Red</td>
<td>For CC-Link cable</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>35505-6080-A00 GF</td>
<td>Gray</td>
<td>Power φ2.2~3.0 mm</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>35505-6180-A00 GF</td>
<td>Blue</td>
<td>Power φ2.0~2.3 mm</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>35505-6200-A00 GF</td>
<td>Yellow</td>
<td>Power φ1.6~2.0 mm</td>
<td>20</td>
</tr>
<tr>
<td>Wiremount Plug for Wire-to-Wire</td>
<td>35805-6000-B0M GF</td>
<td>Red</td>
<td>For CC-Link cable</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>35805-6080-A00 GF</td>
<td>Gray</td>
<td>Power φ2.2~3.0 mm</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>35805-6180-A00 GF</td>
<td>Blue</td>
<td>Power φ2.0~2.3 mm</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>35805-6200-A00 GF</td>
<td>Yellow</td>
<td>Power φ1.6~2.0 mm</td>
<td>20</td>
</tr>
<tr>
<td>Wiremount Plug for Wire-to-Wire Panel</td>
<td>35805-6000-BPM GF</td>
<td>Red</td>
<td>For CC-Link cable</td>
<td>20</td>
</tr>
<tr>
<td>Mount Use</td>
<td>35805-6080-AP0 GF</td>
<td>Gray</td>
<td>Power φ2.2~3.0 mm</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>35805-6180-AP0 GF</td>
<td>Blue</td>
<td>Power φ2.0~2.3 mm</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>35805-6200-AP0 GF</td>
<td>Yellow</td>
<td>Power φ1.6~2.0 mm</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M Latch Support Metal Clip for Wiremount Support</td>
<td>79116-PCL-01M</td>
</tr>
</tbody>
</table>

The 3M Latch Support Metal Clip promotes dual mounting/stacking of the 3M Wiremount Sockets using the metal clip and latching accessory which simplifies mating/latching and unmating of two connectors at once.

The Power Clamp Wiremount Socket and Plug Connectors, 355 and 358 Series, for cable mounting are further divided into four additional versions based on the wire diameter from 1.6 to 3.0 mm and conductor size (0.50 mm² to 0.75 mm² [18 - 20 AWG]). The use of different color connectors (clear, blue, yellow, red) help provide for the proper correlation of wire to connector, helping minimize wiring errors and as a result, providing high processing reliability for the user. Plug and socket (red cover) versions are available for CC-Link communications cables and accept three 20 AWG wires and one drain wire. A panel mount option is available for the wiremount plug.
Instructions for terminating the drain wire are as follows:

**CC-Link Cable Assembly Process for One-Touch Remote I/O Modules**

1. Cut jacket 4.5cm from the end
2. Remove jacket

1. Separate drain wire from braid shield
2. Twist drain wire at least 10 times

1. Cut off the braid shield
2. Cut off the foil shield
3. Cut off the 3 plastic fillers
4. Place in order of blue, white, yellow and drain wire

1. Prepare 3cm long shrink tube (3mm diameter)
2. Insert drain wire into shrink tube as shown
3. Apply heat and shrink the tube

1. Prepare 2 cm long shrink tube (10mm diameter)
2. Insert cable into shrink tube as shown
3. Apply heat and shrink the tube

1. Use a nipper and trim the cable and drain wire as shown
2. Insert cable into CC-Link connector (Red)
3. Push down red cover!

1. Cut jacket 4.5cm from the end
2. Remove jacket

Pin assignment for connector 35505-6000-B0M GF
- Blue cable goes to contact slot No.1
- White cable goes to contact slot No.2
- Yellow cable goes to contact slot No.3
- No conductor in contact slot No. 4
- Drain with shrink tube goes to contact slot No.5
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Product Description – 3M Round Conductor Cable 79100 Series Offering

General wire accommodations:
- 18-20 AWG solid and 7-19 stranded with foamed PE, TFE, or PVC insulation
- MIL-W-16878 cables
- CC-Link Ver 1.10 cables

The 79100-110SBH and 79100-110SBZ-5 may used with the following connectors:
- 35505-6000-B0M GF (CLPA CC-Link Standard)
- 35605-6114-B00 PE (CLPA CC-Link Standard)

The 79100-075-4FLT may be used with the following connector:
- 38104-M018-M0M FL (Mitsubishi brand Link 18 AWG, 2.54 Pitch Flat)

The 79100-075-4F1 may used with the following connector:
- 38104-0018-000 FL (3M™ Link Connector 18 AWG, 2.54 Pitch Flat)

The 79100-075-4ZLT may be used with the following connectors:
- 38104-F018-F00 FL (3M™ Link Connector 18 AWG, 1.8-2.1 mm Diameter)
- 38104-B018-B0M FL (Mitsubishi Brand Link 18 AWG, 1.8-2.1 mm Diameter)

3M Cable Offering

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Cable Type</th>
<th>TS Number</th>
<th>Test Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Clamp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>79100-110SBH</td>
<td>CC-Link Standard</td>
<td>TS-2321</td>
<td>CC-Link V1.1 Approved</td>
</tr>
<tr>
<td>79100-110SBZ-5</td>
<td>CC-Link Flexible Type</td>
<td>TS-2324</td>
<td></td>
</tr>
<tr>
<td>Link</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>79100-075-4ZLT</td>
<td>CC-Link/LT Round Jacketed Black, White, Red, Green</td>
<td>TS-2325</td>
<td>CLPA Conformance Tested</td>
</tr>
<tr>
<td>79100-075-4F1</td>
<td>Flat Cable Black, White, Red, Green</td>
<td>TS-2323</td>
<td>For Non-CLPA Applications</td>
</tr>
<tr>
<td>79100-075-4FLT</td>
<td>CC-LINK/LT Flat Cable Blue with Orange Stripe</td>
<td>TS-2322</td>
<td>CLPA Conformance Tested</td>
</tr>
</tbody>
</table>
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CC-Link Version 1.1 Cables Tested

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product name</th>
<th>Cable Type</th>
<th>Test Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Cable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KURAMO</td>
<td>FANC-110SBH</td>
<td>Standard</td>
<td>Approved</td>
</tr>
<tr>
<td></td>
<td>PW110SBH</td>
<td>with power line</td>
<td>Approved</td>
</tr>
<tr>
<td>KURAMO</td>
<td>EM110SSBH</td>
<td>Eco type</td>
<td>Approved</td>
</tr>
<tr>
<td>KURAMO</td>
<td>WR-FANC-110SBH</td>
<td>for outside</td>
<td>Approved</td>
</tr>
<tr>
<td>KURAMO</td>
<td>LT-FANC-110SBH</td>
<td>for low temperature</td>
<td>Approved</td>
</tr>
<tr>
<td>NIHON DENSEN</td>
<td>CCNC-SB110H</td>
<td>Standard</td>
<td>Approved</td>
</tr>
<tr>
<td></td>
<td>CCNC-SB110H+PW</td>
<td>with power line</td>
<td>Approved</td>
</tr>
<tr>
<td>DAIDEN</td>
<td>CS-110</td>
<td>Standard</td>
<td>Approved</td>
</tr>
<tr>
<td></td>
<td>CS-110 PW</td>
<td>with power line</td>
<td>Approved</td>
</tr>
<tr>
<td>Robot Cable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KURAMO</td>
<td>FANC-110SBZ-5</td>
<td>Robot</td>
<td>Approved for -20°C to 85°C</td>
</tr>
<tr>
<td>NIHON DENSEN</td>
<td>CCNC-SB110SF-5</td>
<td>Robot</td>
<td>Approved</td>
</tr>
</tbody>
</table>

Contact 3M for additional wire accommodation needs or testing support.

Boardmounting
Power Clamp Headers, 356 Series, 3 mm pitch, are offered in a straight/vertical solder tail and right angle/horizontal solder tail configurations as mating components for wiremount sockets, branch connectors and the terminator connector. These boardmount headers are available in single five-pin configurations and also in double-row 10-pin configurations which can accommodate up to two wiremount sockets.

<table>
<thead>
<tr>
<th>3M Boardmount Connector</th>
<th>Product Number</th>
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</thead>
<tbody>
<tr>
<td>Boardmount Header</td>
<td>35605-6114-A00 PE</td>
</tr>
<tr>
<td>Straight One-Row</td>
<td>35605-6114-B00 PE</td>
</tr>
<tr>
<td>Boardmount Header</td>
<td>35610-6224-A00 PE</td>
</tr>
<tr>
<td>Straight Two-Row</td>
<td>35610-6234-B00 PE</td>
</tr>
<tr>
<td>Boardmount Header</td>
<td>35605-5153-A00 PE</td>
</tr>
<tr>
<td>Right Angle One-Row</td>
<td>35605-5153-B00 PE</td>
</tr>
<tr>
<td>Boardmount Header</td>
<td>35605-5153-AP0 PE</td>
</tr>
<tr>
<td>Right Angle One-Row (PCI)</td>
<td>35605-5153-BP0 PE</td>
</tr>
<tr>
<td>Boardmount Header</td>
<td>35610-5253-A00 PE</td>
</tr>
<tr>
<td>Right Angle Two-Row</td>
<td>35610-5253-B00 PE</td>
</tr>
</tbody>
</table>

Branch Connectors
Power Clamp Branch Connectors, 357 Series, 3 mm pitch, are offered in a two socket plus two plug (H-Type) configuration and a one socket plus two plug (Y-Type) configuration. The branch connectors take one input and splits into either two or three outputs. These connectors enable a bus network. The one socket plus two plug configuration reduces the PCB footprint required for bus networks.
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With above Y-Type and H-Type configurations, the signal/power can be serially connected in the following configurations: 1) Y-Type connecting two wiremount sockets to one wiremount plug or a single-row boardmount header; OR 2) H-Type connecting two wiremount sockets to a double-row boardmount header.

<table>
<thead>
<tr>
<th>3M Branch Connector</th>
<th>Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Branch Connector, Type-H</td>
<td>35720-L200-A00 AK</td>
</tr>
<tr>
<td></td>
<td>35720-L200-B00 AK</td>
</tr>
<tr>
<td>Branch Connector, Type-Y</td>
<td>35715-L010-A00 AK</td>
</tr>
<tr>
<td></td>
<td>35715-L010-B00 AK</td>
</tr>
</tbody>
</table>

**Terminal Resistor**

Power Clamp Terminator Connectors, 35T Series, 3 mm pitch are offered as sockets for connection into any header or plug with B polarization. This connector has an integrated 110Ω resistor and is rated at 0.5W and 7 V maximum. The connector provides a simple means of incorporating a terminal resistor into communication networks using a bus topology. Easy access ports are included for electrical test probes. The terminator is used to reduce the noise associated with an open-ended cable.

**Market Segments/Customer Applications**

- Factory Automation and Industrial Controls
- Semiconductor/LCD Manufacturing Machines
- Food and Packaging Industries
- Medical
- Packaging and Conveyor Systems
- Motion Test and Measurement Systems
- Traffic Light and Control Systems
- Elevators (Lift) Controls/Systems
- Flowmeters and Pressure Sensors (Air, Water)
- Gaming
- LED Lighting and Signage
- Base Press Control Electronics
- Automotive and Metal Industries

**Competitive Situation**

There is no direct competitive product offered. Terminal blocks and crimp connectors are alternative, indirect competitive offerings.
Selling 3M’s Value Proposition
3M brings a strong value proposition to market for these products, including:

- 3M has a strong brand recognition established through many years of offering reliable IDC connector solutions
- The 3M Power Clamp solution is recognized by main players in this market to possess superior function and design
- Very high quality, unique products in the market
- Superior high quality and reliable IDC termination with ease of use
- Debris-free termination suited for semiconductor, LCD and medical environments
- No special tooling needed for wire termination – only a pliers
- Integrated wire guide and retention built into the cover
- Design accepts multiple wire diameter and conductor sizes
- Reduction in total wiring required when leveraging a serial schematic and the 3M product offering
- Mating latch helps maintain a reliable interconnect in demanding applications
- Robust PC board solder tab retention design
- Competitive pricing.
- Current rating: up to 10 Amps for one contact/7 Amps with multiple contacts
- Voltage Rating: 250 volts
- Short lead-times – products available from stock
- Small customer MOQ’s: 100 each.
- UL approved
- EU RoHS compliant and labeled pursuant to China RoHS marking standard SJ/T 11364-2006

Program Direction and Future New Products
- Power Clamp Wiremount Plug with a spring-type wire termination contact.

Sales Support Materials

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Tech Sheet</th>
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<tbody>
<tr>
<td>Power Clamp Socket, 355 Series, 3 mm, IDC, Wiremount, 5-Position</td>
<td>TS-2273</td>
</tr>
<tr>
<td>Power Clamp Plug, 358 Series, 3 mm, IDC, Wiremount, Panel Mount Option</td>
<td>TS-2285</td>
</tr>
<tr>
<td>Power Clamp Header, 356 Series, 3 mm, Straight, 1- and 2-Row, 5 and 10 Contacts</td>
<td>TS-2274</td>
</tr>
<tr>
<td>Power Clamp Header, 356 Series, 3 mm, Right Angle, 1-and 2-Row, 5 and 10 Contacts</td>
<td>TS-2303</td>
</tr>
<tr>
<td>Power Clamp Branch Connector, 357 Series, 3 mm, 2 Sockets and 2 Plugs, 5 Position x 4</td>
<td>TS-2275</td>
</tr>
<tr>
<td>Power Clamp Branch Connector, 357 Series, 3 mm, 1 Sockets and 2 Plugs, 5 Position x 4</td>
<td>TS-2304</td>
</tr>
<tr>
<td>Power Clamp Terminator, 35T Series, 3 mm, Terminal Resistor, Socket</td>
<td>TS-2309</td>
</tr>
<tr>
<td>79100-110SBH : CC-Link V1.10 Standard Cable (Power Clamp CLPA CC-Link Specific)</td>
<td>TS-2321</td>
</tr>
<tr>
<td>79100-110SBZ-5 : CC-Link V1.10 Flexible Cable (Power Clamp CLPA CC-Link Specific)</td>
<td>TS-2324</td>
</tr>
<tr>
<td>79100-075-4ZLT : CC-Link/LT Flexible Cable</td>
<td>TS-2325</td>
</tr>
<tr>
<td>79100-075-4F1 : 4 Wires Flat Cable</td>
<td>TS-2323</td>
</tr>
<tr>
<td>79100-075-4FLT : CC-Link/LT Flat Cable</td>
<td>TS-2322</td>
</tr>
</tbody>
</table>

3D models for the connectors are available at www.3Mconnectors.com.
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Packaging/Labeling
The series of products is available in standard 3M packaging. For more information refer to the part
number setup file included in this product release.

Lead Time
The typical lead-time for shipment of product will be approximately one week from stock and for low
volume, first time orders the lead time may be up to 60 days.

Pricing and Samples
Product will be offered at the usual best distributor pricing (BDP) as well as at a high volume pricing. For
more information please refer to the part number setup file included in this product release.

The Columbia sample room will be stocked with the main high runner items.

Related Products

Complementary Field-Bus System Product List
- 3M™ Link Connector, Wiremount, Hemaphroditic, 381 Series, .100” IDC, 4 pin, TS-2098
- 3M Link Connector, Boardmount, 382 Series, .100” Straight/Vertical and Right Angle, 4 pin,
  TS-2099
- 3M™ Mini-Clamp II Wiremount Sockets, 373 Series, 2 mm IDC, with Type A and Type B contacts,
in 3 and 4 pin counts
- 3M Mini-Clamp I Wiremount Sockets, 373 Series, 2 mm IDC, with Type 1 and Type 2 contacts, in a
  Dual-Row 6 (2 x 3) and 8 (2 x 4) pin counts
- 3M Mini-Clamp II Wiremount Plugs, 371 Series, 2 mm IDC, with Type A and Type B contacts, in 3
  and 4 pin counts
- 3M Mini-Clamp I Wiremount Plugs, 371 Series, 2 mm IDC, with Type 1 and Type 2 contacts, in a
  Dual-Row 6 (2 x 3) and 8 (2 x 4) pin counts.
- 3M Mini-Clamp Boardmount Sockets, 372 Series, 2 mm Straight/Vertical, in 3, 4, 8, 12 and 16 pin
  counts.
- 3M Mini-Clamp Surfacemount Sockets, 372 Series, 2 mm Right Angle, in 3 and 4 pin counts
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Frequently Asked Questions

Q: Will these products mate to all standard available types of wire and cable?
A: The wiremount connectors will accommodate 18 - 20 AWG solid and 7 strand wire types with foamed
PE or PVC insulation and will accommodate CC-Link Version 1.10 cables. Other wire
accommodations are available. Please contact 3M for accommodation of other wire or cable types in
order to confirm if the wire or cable is compatible with the Power Clamp connector. In some cases,
testing may be required in order to confirm compatibility of the wire or cable with the Power Clamp
connector.

Q: What if I need to connect to other wire or cable types?
A: Please contact 3M for accommodation of additional wire or cable types. Expanded testing is underway
for a broader range of wire types and insulations. If the customer has a specific or unique wire type that
is required, then please contact 3M Technical Service.

Q: Are these products EU and China RoHS compliant?
A: Yes. These products meet the current requirements of EU RoHS and are labeled pursuant to China
RoHS marking standard SJ/T 11364-2006.

Q: Are these products eligible for the 3M Design Registration Program?
A: No.
## New Product Release Summary for 3M Authorized Distributors

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### Product Features/Advantages/Benefits

<table>
<thead>
<tr>
<th>Features</th>
<th>Advantages</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M brand</td>
<td>Recognition in the marketplace for these styles of connectors</td>
<td>Implied quality</td>
</tr>
<tr>
<td>CLPA, CC-Link Standard</td>
<td>Conforms to requirements in CC-Link, Field Bus Communication Standard</td>
<td>Helps eliminate confusion relative to interconnecting between various factory automation equipment when the standard is fully implemented by the user</td>
</tr>
<tr>
<td>Robust wiremount mating solutions</td>
<td>One source for high reliability system solution</td>
<td>Improved system reliability for customer</td>
</tr>
<tr>
<td>Wiremount solution options</td>
<td>Multiple wiremount plug and socket, branch connector options and dual/stacking sockets</td>
<td>Multiple options for wire-to-wire power and signal applications</td>
</tr>
<tr>
<td>Power Clamp wiring solution (field bus systems applications)</td>
<td>Solution approach for wiring of factory automation and industrial controls that help reduce the total copper wire required to build the system by leveraging a serial vs. parallel wiring scheme</td>
<td>Reduction in total cost for the wiring installation</td>
</tr>
<tr>
<td>IDC termination</td>
<td>Virtually no debris generated from termination process</td>
<td>No contamination or clean up required in clean room environments</td>
</tr>
<tr>
<td>IDC termination</td>
<td>Reduction in time required to field terminate the wires to the IDC contact relative to traditional terminal blocks or crimp contacts</td>
<td>Reduction in total cost of wiring installation</td>
</tr>
<tr>
<td>Header – straight or right angle, 1- or 2-row</td>
<td>Multiple PCB mounting options allow for flexibility in application design</td>
<td></td>
</tr>
<tr>
<td>Latch design</td>
<td>Latch and body design of this connector helps maintain the electrical connection in demanding applications and is designed to reduce the probability of the latches breaking when ejecting the mating assembly</td>
<td>Improved reliability</td>
</tr>
<tr>
<td>Easy to mate/disengage assemblies</td>
<td>Latch style makes mating/disengaging assemblies easy</td>
<td>Functional improvement for applications requiring more than one cable insertion</td>
</tr>
<tr>
<td>Market pricing</td>
<td>3M BDP should be competitive against competitive product and high volume pricing is available upon request</td>
<td>Reduced deviated pricing requests, leading to easier selling for distribution</td>
</tr>
<tr>
<td>EU and China RoHS compliant</td>
<td>Meets legislative requirements of EU RoHS and is labelled pursuant to China RoHS marking standard SJ/T 11364-2006</td>
<td>No restrictions on use in products shipping to Europe or China</td>
</tr>
<tr>
<td>Physical polarization</td>
<td>Designed to provide precise plugging and help prevent mismating of connectors</td>
<td>Improved reliability</td>
</tr>
<tr>
<td>Different cover colors</td>
<td>Provides for the proper correlation of wire to connector</td>
<td>High processing reliability</td>
</tr>
</tbody>
</table>
New Product Release Summary for 3M Authorized Sales Reps
3M™ Power Clamp Wiremount Socket, Wiremount Plug, Boardmount Header, 35X Series and
3M™ Round Conductor Cable, 79100 Series

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