

AUTOMOTIVE > AUTOMATION & ELECTRICAL SOLUTIONS

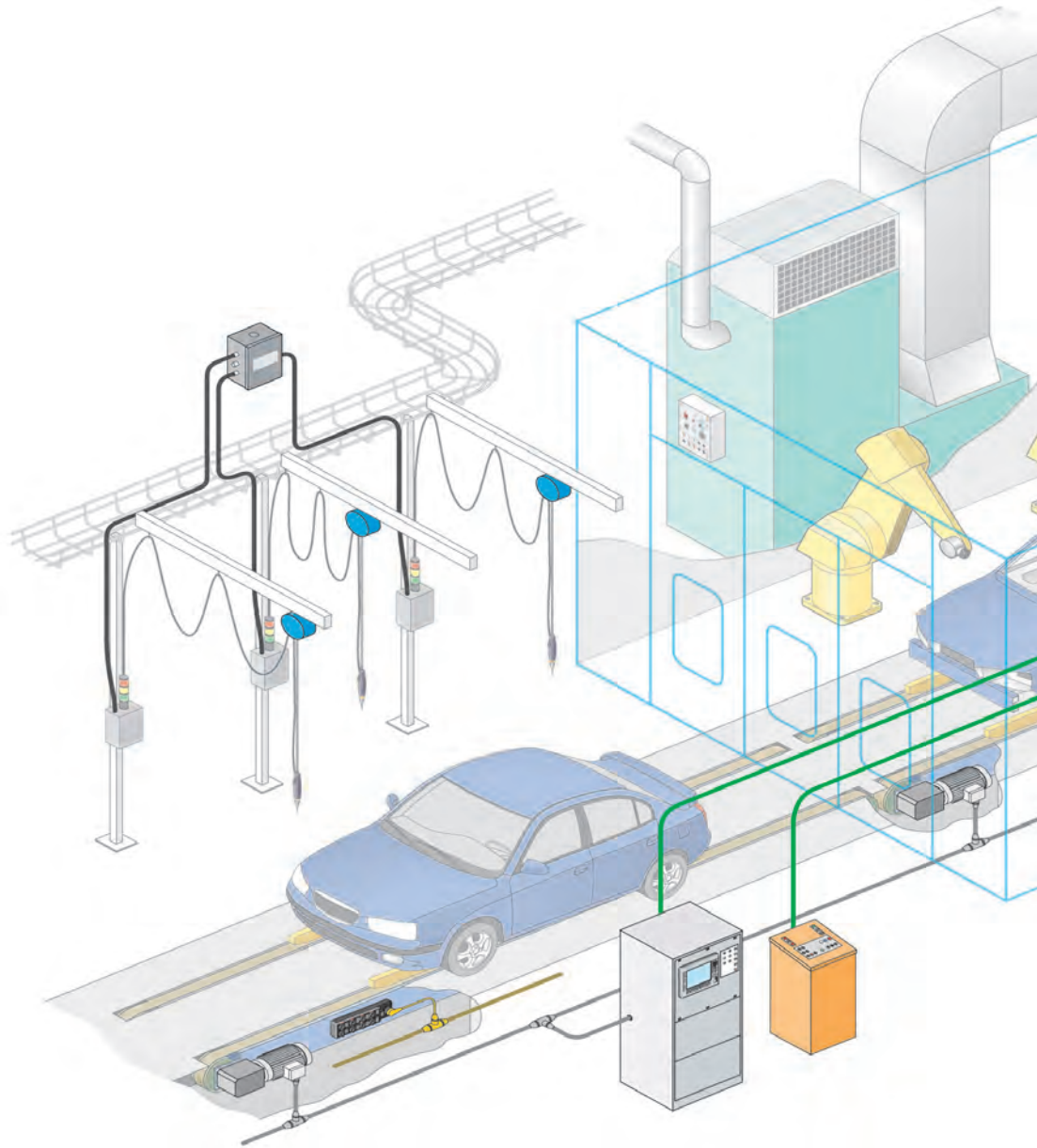


molex®



MOLEX PROVIDES SOLUTIONS > FOR AUTOMOTIVE AUTOMATION PLANT INFRASTRUCTURES GLOBALLY

Brad® products have been the standard for harsh duty connectivity systems in the automotive industry since the invention of the Mini-Change® connector in the late 1960s. Our industrial communication and connectivity products have been time tested for toughness and durability in automobile manufacturing plants worldwide. Our team of highly-skilled experts is focused on designing and developing innovative product solutions for reliable communication, power distribution, and control aimed at reducing capital equipment costs and downtime and increasing worker safety.



PRODUCTS >



In Cabinet

- Network Interface Cards
- IP30 Ethernet Switches
- CIP Safety Software Kits
- SST™ Communication Modules

I/O and Network

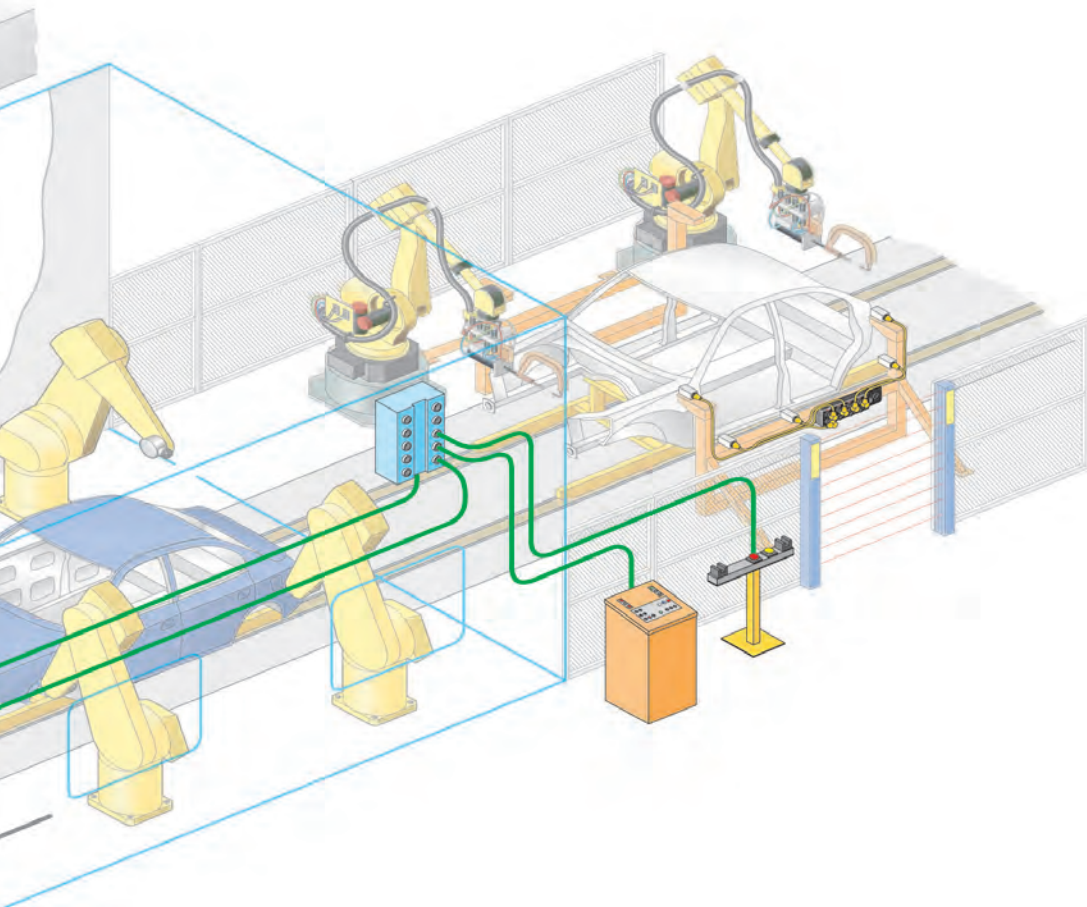
- Harsh I/O IP67 Modules
- IP67 Ethernet Switches
- Factory-made network cabling solutions for Ethernet, DeviceNet*, PROFIBUS†, and more.

Connectivity

- Brad® Micro-Change® (M12) Sensor Cordsets
- Brad mPm® DIN Valve Connectors
- Brad Nano-Change® (M8) Sensor Cordsets
- MPIS Distribution Boxes

* DeviceNet is a trademark of Open DeviceNet Vendor Association (ODVA)

† PROFIBUS is a trademark of PROFIBUS International



Power and Distribution

- Brad® Power Products
- Brad Micro-Change® (M12) Power Products
- Molded cables, field attachable connectors, tees, MPIS and receptacles
- Brad Mini-Change® Products

Tool Support

- Aero-Motive® Balancers
- Aero-Motive Retractors
- Cord Grips and Strain Reliefs
- Cable Reels

PRODUCT INFORMATION

IN CABINET

Network Interface Cards:

- SST™, applicom®, and Direct-Link™ Network Interface Cards (NICs) are intelligent communication solutions for SCADA, PC control, and IO applications
- Facilitates communication with most popular controls platforms (Rockwell, Siemens, Schneider, Omron, Mitsubishi, GE and with older legacy networks)

Ethernet Switches:

- Managed and unmanaged Brad® Direct-Link® Ethernet switches provide reliable, robust performance across complex networks in a wide range of control and monitoring applications
- 5-, 8-, 16-, 18-port versions
- Available with copper and fiber connectors

CIP Safety Software Kits:

- Meets IEC 61508, SIL3 standard
- Approved by TUV and complies with the CIP Safety Edition 2.1 ODVA standard

SST Communication Modules:

- Rockwell Encompass Partner products connect Rockwell controllers for SCADA and real-time control using Modbus Serial, Modbus TCP, PROFIBUS DP, and AS-interface
- Add-on Profiles (AOP) for ControlLogix* modules make configuration quick and easy

I/O and NETWORK

Harsh I/O IP67 Modules:

- Machine mount IO modules reduce cabinet space and wiring costs
- Brad Ultra-Lock® (M12) connection system provides fast and secure connections
- Support numerous fieldbuses such as PROFINET†, Ethernet IP, Modbus TCP/IP, DeviceNet‡, PROFIBUS§, and CANopen**

IP67 Ethernet Switches:

- 5- and 8-port un-managed switches

* ControlLogix is a registered trademark of Rockwell Automation

† PROFINET is a registered trademark of PROFIBUS and PROFITNET International (PI)

‡ DeviceNet is a trademark of Open DeviceNet Vendor Association (ODVA)

§ PROFIBUS is a trademark of PROFIBUS International

** CANopen is a registered trademark of CAN in Automation (CiA)

All other trademarks are the property of their respective owners

Brad Networking Cables and Accessories:

- Plug-and-play wiring systems ensure fast and easy integration and simplify production line maintenance
- Designed to withstand the rigors of the automotive production environment to protect against down-time
- Solutions to support PROFINET, Ethernet, DeviceNet, PROFIBUS, CANopen, and CC-Link
- RJ45, M12 D-code, Brad Micro-Change® (M12) CHT (power and communication hybrid), Brad Micro-Change (M12) Cat6A, Brad Mini-Change®, and Brad Nano-Change® (M8) connector solutions for communication
- Field attachable connectors and factory molded solutions
- Standard threaded and quick connect push-pull Ultra-Lock® (M12) versions available

CONNECTIVITY

Brad Micro-Change® (M12)

Sensor Cordset:

- IP67, IP69K compliant
- PTFE (polytetrafluoroethylene) coated coupling nuts for weld and corrosion resistance
- Oil resistant, weld resistant, and hi-flex cable options

Brad Nano-Change (M8)

Sensor Cordsets:

- Threaded and snap style coupling nuts available
- PVC, PUR, and TPE cable options

Brad mpm® DIN Valve Connectors:

- Conforms to EN175301-803
- IP67 sealing properties
- Used with solenoid valves in all hydraulic and pneumatic applications

MPIS Distribution Boxes:

- Available with Brad Ultra-Lock (M12) and Brad Nano-Change (M8) IO connections
- Weld resistant, oil resistant, and shock/vibration ratings make them suitable for most any automotive application

POWER and DISTRIBUTION

Brad Power Products:

- Plug-and-play wiring alternative to hard wiring for power distribution in 3-phase motor control and control power applications
- Ensures fast and easy installation and start-up, reduces downtime
- 3- and 4-pole molded products up to 32.0A/600V
- NFPA-79 compliant, UL 2237/2238 listed

Brad Mini-Change Products:

- Plug-and-play wiring alternative to hard wiring for control power applications up to 15A
- 3-, 4-, 5-pole products for 120V/AC and 24V/DC requirements

Brad M12 Power:

- M12 form factor supporting up to 16.0A
- Helps to reduce space used and cost in control power distribution applications

Molded cables, field attachable connectors, tees, MPIS and receptacles:

- Low-cost PVC and high-performing TPE or PUR molded cables for motor power and control power
- Molded tees and MPIS boxes support linear and star topologies

TOOL SUPPORT

Aero-Motive® Balancers:

- Automatic drum lock to secure load if unit tension drops
- Corrosion and impact resistant drums coated to prevent premature failure to cable and cable drum
- High-tensile-strength cast-aluminum housing providing high-durability in abusive environments

Aero-Motive Retractors:

- Retracts tool to original installed position to prevent tool from harmful falls
- Easy-to-use tension adjustment control
- Provides ideal ergonomics within work zone to minimize operator fatigue and reduces repetitive motion injuries

Strain Relief and Support Grips:

- Strain-relief grips provide relief for cords or flexible conduit on plugs, connectors and enclosures or portable equipment
- Stainless steel mesh support grips are designed to withstand the most abusive plant environments

Cable Reels:

- Holds up to 5.4m (50') of standard-duty cord for flexibility for higher ceiling heights or longer distant use
- Adjustable spring tension which modifies tension depending on weight of accessory
- Built-in ratchet locks to allow user to position cord at desired location

Get customized insights at: <http://www.molex.com/industry/industrial.html>