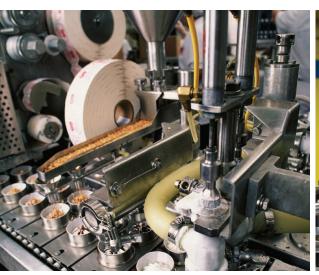


## **Passive Connectivity**

Your link for dependable routing of power and control in industrial environments







### **LynxPOWER™ Industrial Connectivity**

# Realize time and cost savings with LynxPOWER Industrial Connectivity

When operating efficiency and manufacturing uptime are critical, Cooper Interconnect's extensive offering of industrial connectivity products simplify installations and change-outs for power, signal and data applications.

### **Table of Contents**

Mini-Line™4
Micro-Mini™12
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Cable Selector
Enclosure Ratings26

Cooper Interconnect can improve the efficiency, safety, and uptime of your facility with LynxPOWER industrial connectivity devices.

- Designed specifically to withstand industrial manufacturing environments
- Lowers maintenance and facility costs due to quick and easy change-out modular design
- Available in a wide variety of pin configurations, amperages, materials, and styles
- Customized configurations to meet your specific application needs
- Keyed to ensure accurate and safe connections every time





## SOFTPower™ Product Applications:

- Motor Controls
- Mixers, Grinders & Choppers
- Pumps



### Mini-Line™ Product Applications:

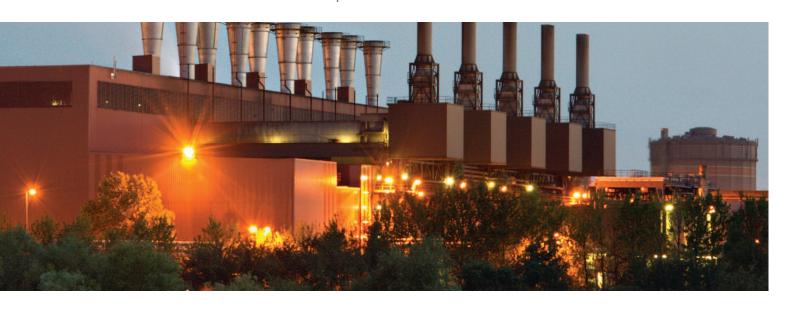
- Food Processing Equipment
- Conveyors & Assembly Lines
- Packaging Equipment





# Custom connectivity solutions to meet your unique applications

LynxPOWER can accommodate all of your unique connectivity applications with customized designs, lengths, materials and configurations created per your specifications and delivered when you need them.





## Micro-Mini™ Product Applications:

- Pick-n-Place Machines
- Robotic Equipment
- Industrial Sensors





### Industrial Network Product Applications:

- Factory Automation
- Production Monitoring
- Industrial Networks



### **Engineered Solutions**

Cooper Interconnect custom engineered solutions can match any of your complex job needs, simplify your project and maximize your bottom line.



### Stock Items

Many of our Cooper Interconnect products are in stock and available for immediate purchase and quick delivery. Contact your Cooper Interconnect sales agent for a full list of products.



#### **Made To Order**

Our easy to use ordering matrix allows you to configure made to order parts to suite your exact needs.



### Mini-Line™ Applications

# A complete line of connectivity solutions to meet your specific needs

Select from a wide range of standard and custom Mini-Line cordsets and receptacles in a variety of configurations, as well as plex boxes and accessories.

### **Application**

Mini-Line products are specifically designed for industrial automation applications in which power or signal connections are exposed to long-term physical stresses and subjected to liquids or oils.

Mini-Line is ideal for industrial manufacturing, production line equipment, packaging equipment, conveyors and assembly lines plus food & beverage processing equipment.

Mini-Line connection points mean less downtime, easier maintenance and increased safety by replacing traditional hardwiring with a plug-andrun modular pre-wired system.

These products have excellent resistance to welding flash, hot chips and other severe conditions found in demanding manufacturing settings.

The molded-to-cable construction of the one-piece cordset ends creates a bond that is impervious to penetration from external contaminants.

Receptacles are available in a variety of straight, angled, panel- and flangemount body styles for flexibility in virtually every industrial application.



### **Lynxpower**



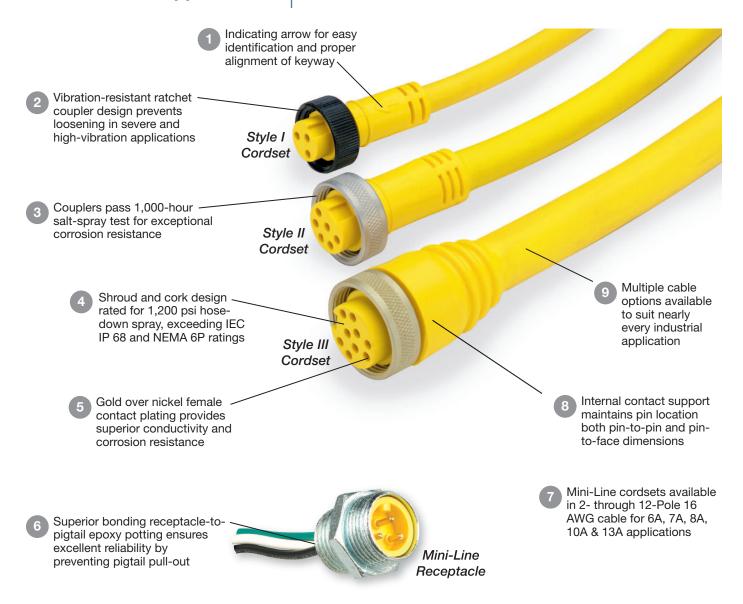


## Mini-Line<sup>™</sup> Cordsets & Receptacles Features & Benefits



# Quality, dependable connectivity solutions for today's industrial applications

Mini-Line Cordsets & Receptacles are designed for modular use in abusive applications where cable assemblies are exposed to constant flexing and/or dirty, oily, or harsh environments.



#### **Related Products**

Whether you need to create complex power or signal networks or simpy add another drop connection, we have the Mini-Line adapters and accessories you need – just visit www.cooperinterconnect.com.





Mini-Line Tees & Splitters Industrial Connectivity



Mini-Line Field Attachables, Adapters & Caps Industrial Connectivity

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### **LYNXPOWER** Mini-Line™ Cordsets

NEMA 1, 3, 4, 6P & 13; IEC IP 68



ML3C4WC030F Female Plug



Style II MLWC4WC030F Female Plug



Style III ML9C4WC030F **Female Plug** 

#### **Male & Female Cordsets**

#### **FEATURES**

- Factory molded-to-cable ends provide quick connect capability.
- Modular components allow for easy expansion and reconfiguration without the need for re-wiring; eliminates the need for multiple cable assemblies, reduces installation time, reduces design time and lessens the need for special tools.
- Environmentally sealed ends rated at IP 68 to prevent the ingress of dust, water, and other contaminants to reduce maintenance and downtime.
- Vibration resistant ratchet couplers assure cordsets stay coupled under load.

- Superior female contact design with stainless steel sleeve for minimal degradation.
- End-to-cable molded junction securely bonds for excellent reliability.
- Internal contact support maintains pin location and proper keyway alignment.
- Shroud and cork design exceeds IP 68 and NEMA 6P rating (rated 1,200 PSI hose down spray).
- Easy-stripping jacketed cable with "fillerless" design allows fast stripping with simple hand tools; high-flex copper stranding delivers improved flexibility; multiple cable options.

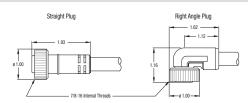
### Style I, Male & Female Plugs



### 2-Pole: 13A, 3-Pole: 13A, 4-Pole: 10A, 5-Pole: 8A, 6-pole: 6A

2-6 conductor 16 AWG standard

- Vibration-proof ratchet design
- · Cables: STOOW, or SOOW
- · Straight & right angle designs
- Meets current SAE #H1738-2 specifications
- Zinc, nylon & stainless steel coupler options



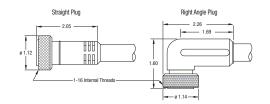
#### Style II, Male & Female Plugs



#### 6-Pole: 8A, 7-Pole: 7A, 8-Pole: 7A

6, 7, 8 conductor 16 AWG standard

- Vibration-proof ratchet design
- · Cables: STOOW or SOOW jacket
- · Straight & right angle designs
- Meets current SAE #H1738-2 specifications
- · Aluminum, nylon & stainless steel coupler options



#### Style III, Male & Female Plugs

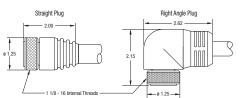


COOPER Interconnect

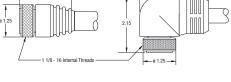
### 9-Pole: 7A, 10-Pole: 7A, 12-Pole: 7A

9, 10, 12 conductor 16 AWG standard

- Vibration-proof ratchet design
- · Cables: STOOW or SOOW jacket
- · Straight & right angle designs
- Meets current SAE #H1738-2 specifications
- · Aluminum, nylon & stainless steel coupler options



### **TESTING & CODE COMPLIANCE**



Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### LYNXPOWER. Mini-Line™ Cordsets NEMA 1, 3, 4, 6P & 13; IEC IP 68

### **Pin Configurations & Color Coding**

Female Faces



Style I





Style I



Style I



Style I



Style II



Style II



Style II



Style III





Male Faces



Style I



Style I



) (4) 2 5-Pole



065 **2**3**4** 6-Pole

7-Pole









12-Pole

Conductor Color Codina **Standard** 1. BLK 2. WHT

Style I Standard 1. BLK 2. WHT 3. RED

S = Male Straight - Female 90° J = Male 90° - Female 90°

Style I Standard 1. BLK 2. WHT 3. RED 4. GRN

1. BLK 3. RED

Style I Standard 2. WHT 4. GRN 5. ORG

1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6 RH

Style I Standard

Style II Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU

Style II Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU 7. WHT/BLK

Style II Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU

1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU 7. WHT/BLK 7. WHT/BI K 8. RED/BLK 8. RFD/RLK 9. GRN/BLK

10-Pole Style III Style III Standard Standard 1. BLK 2. WHT

3. RED 4. GRN 5. ORG 6. BLU 7. WHT/BLK 8. RFD/BLK 9. GRN/BLK 10. ORG/BLK

12-Pole Style III Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU 7. WHT/BLK

8. RED/BLK 9. GRN/BLK 10. ORG/BLK 11. BLU/BLK 12. BLK/WHT

#### Mini-Line Cordset Catalog Number Matrix Sample Number: ML4A4WC120FX = LynxPOWER Mini-Line 4-Pole Male Plug, 16 AWG Yellow STOOW-U.S. std. color code, 12 foot length, stainless steel coupler. **Product Special Features** X = Stainless Steel Coupler ML = Mini-Line Cordset Y = Nylon Coupler # of Poles **Unit of Measure** 2 = 2, Style I **6** = 6, Style I 9 = 9, Style III F = Feet A = 10, Style III **3** = 3, Style I W = 6,Style II 4 = 4, Style I 7 = 7, Style II C = 12, Style III Cable **5** = 5, Style I 8 = 8, Style II Length (00.0) **Specifications** 1st Digit = 10 x Length 4WC = 16 AWG 2P-12P Yellow 2nd Digit = 1 x Length **Gender & Configuration** STOOW-U.S. Std Color Code 3rd Digit = 0.1 x Length A = Male Internal Thread Plug **4SC** = 16 AWG 2P-12P Yellow (Standard Lengths are: 3, 6, 12, 20 and 30 Feet) C = Female Internal Thread Plug SOOW-U.S. Std Color Code **D** = Male 90° Internal Thread Plug F = Female 90° Internal Thread Plug **G** = Male 90° - Female Straight P = Male Straight - Female Straight

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### **LYNXPOWER** Mini-Line™ Receptacles

NEMA 1, 3, 4, 6P & 13; IEC IP 68







Style III MR9E4BC120A Male Receptacle

### Male & Female Receptacles

#### **FEATURES**

- · Available in straight and right angle mount versions.
- Modular components allow for easy expansion and reconfiguration without the need for re-wiring; eliminates the need for multiple cable assemblies, reduces installation time, reduces design time, and lessens the need for special tools.
- Environmentally sealed connectors rated at IP 68 to prevent the ingress of dust, water, and other contaminants to reduce maintenance and downtime.
- Compact space-saving receptacle bodies.

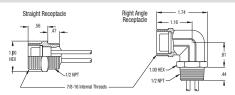
- Superior female contact design with stainless steel sleeve for minimal degradation.
- · Receptacle-to-pigtail potting bonds securely for excellent reliability.
- Internal contact support maintains pin location and proper keyway alignment.
- Shroud and cork design exceeds IP 68 and NEMA 6P rating (rated 1,200 PSI hose down spray).

### Style I Male & Female Straight & Angled

**GAL**US

### 2-Pole: 13A, 3-Pole: 13A, 4-Pole: 10A, 5-Pole: 8A, 6-pole: 6A

- 2, 3, 4, 5, 6 conductor leads available
- 16 AWG 12" pigtail leads
- 1/2"-14 NPT mounting threads
- Meets current SAE #H1738-2 specifications
- Zinc, nylon & stainless steel shell options
- Straight and right angle versions

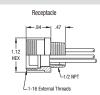


#### Style II Male & Female Straight

6-Pole: 8A, 7-Pole: 7A, 8-Pole: 7A

6, 7, 8 conductor leads available

- 16 AWG pigtail leads
- 1/2" 14 NPT mounting threads
- Straight version
- Meets current SAE #H1738-2 specifications
- · Aluminum, nylon & stainless steel shell options



### Style III Male & Female Straight



#### 9-Pole: 7A, 10-Pole: 7A, 12-Pole: 7A

9, 10, 12 conductor leads available

- 16 AWG pigtail leads
- 1/2" 14 NPT mounting threads
- Meets current SAE #H1738-2 specifications
- Aluminum, nylon & stainless steel shell options
- Straight version



### **TESTING & CODE COMPLIANCE**





**COOPER** Interconnect

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### **LynxPower** Mini-Line™ Receptacles

NEMA 1, 3, 4, 6P & 13; IEC IP 68

### **Pin Configurations & Color Coding**

Female Faces



2-Pole

Style I



3-Pole

Style I











Style II



Style II



Style III





Male Faces







4-Pole

5-Pole

Style I





Style II











12-Pole

12. BLK/WHT

12-Pole

Conductor Color Coding Standard 1. BLK 2. WHT

Style I

Style I Standard 1. BLK 2. WHT 3. RED

Style I Standard 1. BLK 2. WHT 3. RED 4. GRN

Style I Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG

1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6 RH

Style I Standard

Style II Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU

Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU

Style II 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU 7. WHT/BLK 7. WHT/BLK 8. RED/BLK

Style II Style III Standard

Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU 7. WHT/BI K 8. RFD/RLK 9. GRN/BLK

Style III Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU 7. WHT/BLK 8. RFD/RLK 9. GRN/BLK 10. ORG/BLK

Style III Standard 1. BLK 2. WHT 3. RED 4. GRN 5. ORG 6. BLU 7. WHT/BLK 8. RED/BLK 9. GRN/BLK 10. ORG/BLK 11. BLU/BLK

Mini-Line Receptacles Catalog Number Matrix Sample Number: MR4F4BC120AX = LvnxPOWER Mini-Line 4-Pole Female Receptacle, 16 AWG single conductor PVC U.S. Std. color code, cable 12" with stainless steel. **Product Special Features** X = Stainless Steel Shell MR = Mini-Line Receptacle Y = Nylon Shell # of Poles **Unit of Measure 2** = 2, Style I **6** = 6, Style I **9** = 9, Style III A = Inches **W** = 6, Style II A = 10, Style III 3 = 3, Style I 4 = 4, Style I **7** = 7, Style II C = 12, Style III Cable Length (00.0) **5** = 5, Style I **8** = 8, Style II **Specifications** 1st Digit = 10 x Length 4BC = 16 AWG 2P-12P Single Conductor **Gender & Configuration** 2nd Digit = 1 x Length PVC-U.S. Std Color Code 3rd Digit =  $0.1 \times Length$ E = Male External Thread - 1/2"-14 NPT (Standard Length is: 12 inches) F = Female Straight External Thread - 1/2"-14 NPT  $G = Female 90^{\circ} - 1/2"-14 NPT (2P-6P Style I Only)$ **H** = Male 90° - 1/2"-14 NPT (2P-6P Style I Only)

P	Project Name:	Prepared By:
P	Project Number:	Date:
C	Catalog Number:	Type:

### Lynxpower

### Mini-Line<sup>™</sup> Tees & Accessories

NEMA 1, 3, 4, 6P & 13; IEC IP 67/68



### **Mini-Line Tees & Accessories**

#### **FEATURES**

- Modular components allow for easy expansion and reconfiguration without the need for re-wiring; reduce installation time and lessen the need for special tools.
- · Factory molded Tees offer quick and easy circuit branching options.
- Field attachable connectors allow users to create custom cable lengths using their own cable.
- Optional 316 stainless steel couplers support for food & beverage industry applications.

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Style I MT5RC4R Male-Female-Female Tee

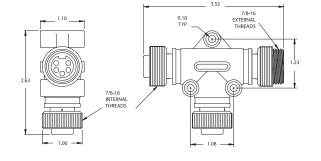


2-Pole: 13A, 3-Pole: 13A, 4-Pole: 10A, 5-Pole: 8A, 6-pole: 6A

2, 3, 4, 5, 6 conductor 16 AWG Tees



- Male and Female Plug connectivity
- Available with molded drop cable
- Black and gray molded body options
- Zinc, nylon & stainless steel coupler options available
- IP68





Style I MF4B1 Male In-Line **Field Attachable** 

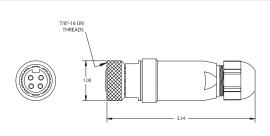
#### Style I Field Attachables

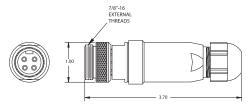
2-Pole: 13A, 3-Pole: 13A, 4-Pole: 10A, 5-Pole: 8A, 6-pole: 6A

3, 4, 5 conductor available to support 16

#### AWG cable

- Field Attachables feature an impact resistant PVC body
- Provide IP67 environment protection
- Nickel plated brass coupler provide easy to use durable connection
- IP67





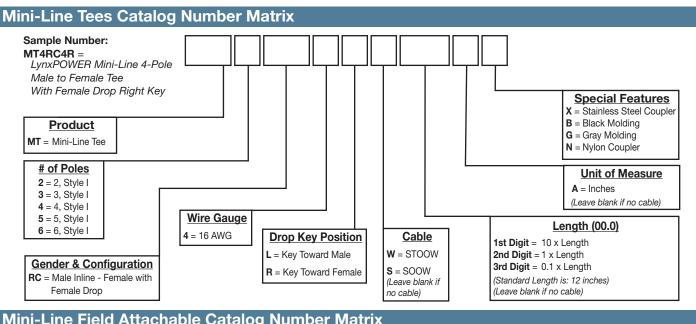


Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

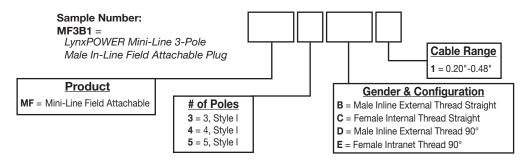
### **Lynxpower**

**Mini-Line**<sup>™</sup> **Tees** & Accessories

NEMA 1, 3, 4, 6P & 13; IEC IP 67/68



### Mini-Line Field Attachable Catalog Number Matrix



### **Passive Accessories**

#### **Mini-Line Caps**

Description	Catalog No.
ML1 Cap For Plugs	□ M1MC
ML2 Cap For Plugs	□ M2MC
ML3 Cap For Plugs	□ МЗМС
ML1 Cap For Receptacles	□ M1FC
ML2 Cap For Receptacles	□ M2FC
ML3 Cap For Receptacles	□ M3FC
ML1 Cap Nylon For Plugs	□ M1MCN
ML2 Cap Nylon For Plugs	□ M2MCN
ML3 Cap Nylon For Plugs	□ M3MCN
ML1 Cap Nylon For Receptacles	□ M1FCN
ML2 Cap Nylon For Receptacles	□ M2FCN
ML3 Cap Nylon For Receptacles	☐ M3FCN

### Micro-Mini™ Applications

# When customized connections are critical to your operation

Our broad selection of Micro-Mini products have been specifically designed for low amperage AC or DC control systems and are ideally suited for use in harsh and abusive manufacturing environments.

### **Application**

Micro-Mini products are specifically designed for industrial automation applications that expose signal connections to constant flexing and vibration plus contaminants, hot chips or welding flash.

Micro-Mini are ideal for industrial manufacturing, production line equipment, pick-n-place machines, robotic equipment and processing sensors.

Micro-Mini products are designed specifically for low amperage AC or DC control systems, compatible with pin configurations used by major sensor manufacturers in the U.S. and Europe, and meet current SAE H1738-2 and IEC 60176-2-101 specifications.

The molded-to-cable construction of the one-piece cordset ends creates a bond that is impervious to penetration from external contaminants.

Receptacle shells are made from a materials chosen to mate with Micro-Mini cordsets and provide a cable assembly with far superior service.



### Lynxpower.



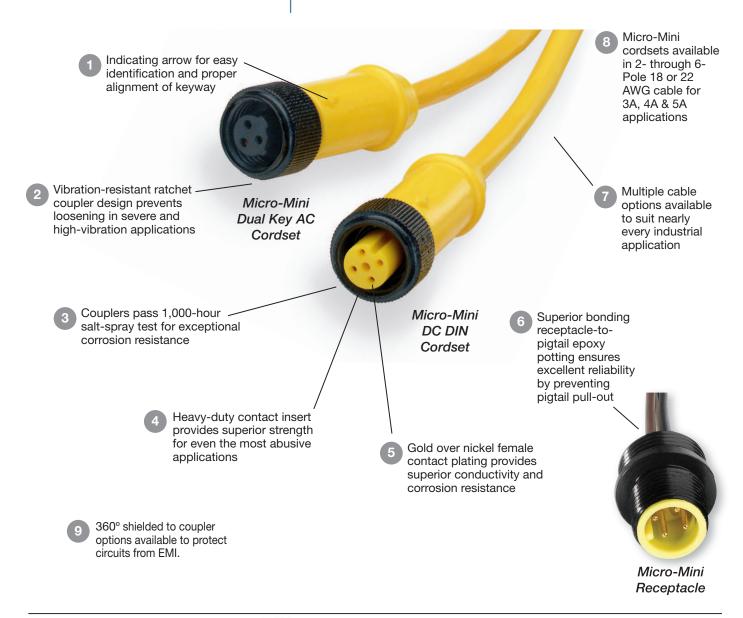


## Micro-Mini™ Cordsets & Receptacles Features & Benefits



## The ideal connectivity solution for sensor and control devices

Micro-Mini cordsets and receptacles are specifically designed for sensor and control equipment used in today's manufacturing environments.



#### **Related Products**

Whether you need to create complex power or signal networks or simpy add another drop into a connection, we have the Micro & Pico adapters and accessories you need – just visit www.cooperinterconnect.com







Micro Field Attachables, Adapters & Caps Industrial Connectivity

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### **Lynxpower**

### Micro-Mini™ Cordsets **AC Dual Key**

**Male & Female Cordsets** 

NEMA 1, 3, 4, 6P & 13; IEC IP 68





### **FEATURES**

- Designed for low amperage AC control systems in abusive manufacturing environments.
- Factory molded-to-cable ends provide quick connect capability.
- Modular components allow for easy expansion and reconfiguration without the need for re-wiring; eliminates the need for multiple cable assemblies, reduces installation time, reduces design time and lessens the need for special tools.
- Environmentally sealed ends rated at IP 68 to prevent the ingress of dust, water, and other contaminants to reduce maintenance and downtime; internal gasket assures watertightness.
- Vibration resistant ratchet couplers assure cordsets stay coupled under load.
- Contact inserts securely bonded in place with a proprietary process; superior side load strength is in excess of 100 lbs., 5 times industry standards.
- End-to-cable molded junction securely bonds for excellent reliability.
- Gold-plated contacts provide superior conductivity and corrosion resistance.
- · Easy-stripping jacketed cable with "fillerless" design allows fast stripping with simple hand tools; high-flex copper stranding delivers improved flexibility; multiple cable type options.



### Dual Key AC, Male & Female Plugs

2-Pole: 4A, 3-Pole: 4A, 4-Pole: 4A, 5-Pole: 4A, 6-pole: 3A / 300VAC

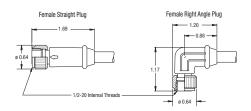
AWM (PVC) Cable:

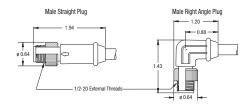
2-6 conductor cable: 22 AWG standard color code

TPE Cable:

2-6 conductor cable: 18 AWG standard color code

- · Straight and right angle versions
- Vibration-resistant ratchet design
- Meets current SAE #H1738-2 specifications
- · Zinc, nylon & stainless steel coupler options





### **Dual Key AC Pin Configurations & Color Coding**

Female **Faces** 



2-Pole





4-Pole





6-Pole

Male **Faces** 



3-Pole

**Dual Key AC** 



4-Pole

**Dual Key AC** 





6-Pole

*511*...

Conductor Color Coding Standard 1. BRN 2. BLU

Dual Key AC Dual Key AC Standard 1. GRN 2. RED/BLK 3. RED/WHT

**Dual Key AC** Standard 1. RED/BLK 2. RED/WHT 3. RED 4. GRN

Dual Key AC Dual Key AC Standard 1. RED/WHT 2. RED 3. GRN 4. RED/YEL 5. RED/BLK

Standard 1. RED/WHT 2. RED 3. GRN 4. RED/YEL 5. RED/BLK 6. RED/BLU

Conductor Color Coding

**Dual Key AC** Standard 1. BRN 2. BLU

2-Pole

Standard 1. GRN 2. RED/BLK 3. RED/WHT

Standard 1. RED/BLK 2. RED/WHT 3. RED 4. GRN

Standard 1. RED/WHT 2. RED 3. GRN 4. RED/YEL

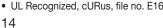
5-Pole

Standard 1. RED/WHT 2. RED 3. GRN 4. RED/YEL 5. RED/BLK 5. RED/BLK 6. RED/BLU

**Dual Key AC** Dual Key AC

#### **TESTING & CODE COMPLIANCE**

UL Recognized, cURus, file no. E169897





Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

'AL

**FL** 

### Lynxpower

### Micro-Mini™ Cordsets **DC Single Key**

NEMA 1, 3, 4, 6P & 13; IEC IP 68

### Male & Female Cordsets

#### **FEATURES**

- Designed for low amperage DC control systems in abusive manufacturing environments.
- Factory molded-to-cable ends provide quick connect capability.
- Modular components allow for easy expansion and reconfiguration without the need for re-wiring; eliminates the need for multiple cable assemblies, reduces installation time, reduces design time and lessens the need for special tools.
- Environmentally sealed ends rated at IP 68 to prevent the ingress of dust, water, and other contaminants to reduce maintenance and downtime; internal gasket assures watertightness.
- Vibration resistant ratchet couplers assure cordsets stay coupled under load.
- · Contact inserts securely bonded in place with a proprietary process; superior side load strength is in excess of 100 lbs., 5 times industry standards.
- End-to-cable molded junction securely bonds for excellent reliability.
- · Gold-plated contacts provide superior conductivity and corrosion resistance.
- · Easy-stripping jacketed cable with "fillerless" design allows fast stripping with simple hand tools; high-flex copper stranding delivers improved flexibility; multiple cable type options.





### DC Single Key (M12), Male & Female Plugs

### 3-Pole: 4A, 4-Pole: 4A, 5-Pole: 4A / 3-Pole: 5A, 4-Pole: 5A / 300VDC

#### AWM (PVC) Cable:

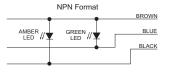
- 3-5 conductor cable: 22 AWG Euro DC color code
- 3-5 conductor shielded cable: 22 AWG Euro DC color code

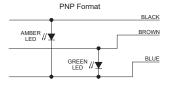
#### SJOOW Cable:

- 3-5 conductor cable: 18 AWG Euro DC color code
- · Straight and right angle versions
- Vibration-resistant ratchet design
- Meets current IEC 61076-2-101 specifications
- · Zinc, nylon & stainless steel coupler options

### **LED Wiring Diagrams**

Female LED Plug



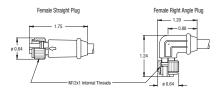


### DC Single Key (M12), LED Female Plugs

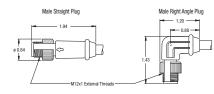
#### 3-Pole: 3A / 10-30VDC

Same cables as DC Single Key Male & Female Plugs

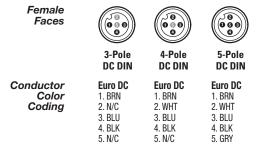
- Right angle PNP & NPN versions
- Vibration-resistant ratchet design



- Meets current SAE #H1738-2 specifications
- · Zinc, nylon & stainless steel coupler options



### Micro DIN Pin Configurations & Color Coding









5. N/C

3-Pole DC DIN	4-Pole DC DIN
Euro DC	Euro DC
1. BRN	1. BRN
2. N/C	2. WHT
3. BLU	3. BLU
4. BLK	4. BLK

5. N/C



5-Pole DC DIN
Euro DC
1. BRN
2. WHT
3. BLU
4. BLK
5 GRV

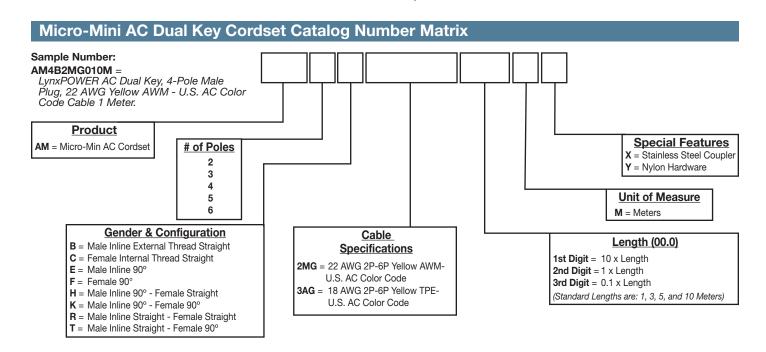
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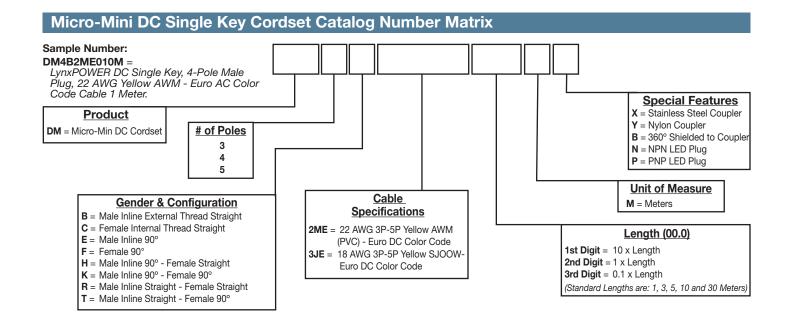
• UL Recognized, cURus, file no. E169897

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### **LynxPower** Micro-Mini™ Cordsets

NEMA 1, 3, 4, 6P & 13; IEC IP 65 & IP 68







Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### **Lynxpower**

### Micro-Mini™ Receptacles **Dual Key AC**

NEMA 1, 3, 4, 6P & 13; IEC IP 68

c FN us

### Male & Female Receptacles

#### **FEATURES**

- Designed for low amperage AC control systems in abusive manufacturing environments.
- · Available in straight designs with standard color coding in AWM/MTW style 1430/1569 leads.
- Modular components allow for easy expansion and reconfiguration without the need for re-wiring; eliminates the need for multiple cable assemblies, reduces installation time, reduces design time and lessens the need for special tools.
- Environmentally sealed connectors rated at IP 68 to prevent the ingress of dust, water, and other contaminants to reduce maintenance and downtime; internal gasket assures watertightness.
- Contact inserts securely bonded in place with a proprietary process.
- Receptacle-to-pigtail potting bonds securely for excellent reliability.
- Gold over nickel plated contacts provide superior conductivity and corrosion resistance.
- Internal contact support maintains pin location and proper keyway alignment.
- Internal gasket assures watertight performance to IP 68 and NEMA 6P ratings.





**Female** 

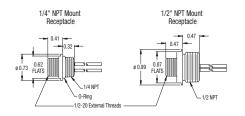
### **Dual Key AC Male & Female Receptacles**

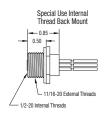
2-Pole: 4A, 3-Pole: 4A, 4-Pole: 4A, 5-Pole: 4A, 6-pole: 3A / 300VAC

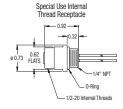
#### Male & Female Receptacles:

2-6 conductor leads: 22 AWG standard color code; male & female receptacles 2-6 conductor leads: 18 AWG standard color code; male & female receptacles

- Straight design
- Meets current SAE #H1738-2 specifications
- Aluminum, nylon, stainless steel shell material options









#### Dual Kev AC **Pin Configurations & Color Coding**

Female **Faces** 





3-Pole



4-Pole



5-Pole











3-Pole

Dual Key AC Dual Key AC Dual Key AC







6-Pole

Conductor Color Coding

Standard 1. BRN 2. BLU

1. GRN

Standard 2. RED/BLK 3 RED/WHT

Dual Key AC Dual Key AC Dual Key AC Standard 1. RFD/BLK 2. RED/WHT 3 RFD

Standard 2. RED 3 GRN 4. RFD/YFI 4 GRN

1. RED/WHT 5. RED/BLK 5. RED/BLK 6. RED/BLU

Dual Key AC Dual Key AC Standard 1. RED/WHT 2. RED 3 GRN 4. RED/YEL

Conductor Color Coding

Standard 1. BRN 2. BLU

2-Pole

Standard 1. GRN 2. RED/BLK

3 RED/WHT

Standard 1. RFD/BLK 2. RED/WHT 3 RFD 4. GRN

Dual Key AC Dual Key AC Standard 1. RED/WHT 2. RED

3 GRN 4. RED/YEL 5. RED/BLK

Standard 1. RED/WHT 2. RED 3 GRN 4. RFD/YFI 5. RED/BLK

6. RED/BLU

#### **TESTING & CODE COMPLIANCE**

• UL Recognized, cURus, file no. E169897

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### Lynxpower

### Micro-Mini™ Receptacles DC & Single Key

NEMA 1, 3, 4, 6P & 13; IEC IP 68



### Male & Female Receptacles

- Designed for low amperage DC control systems in abusive manufacturing environments.
- Available in straight designs with standard color coding in AWM/MTW style 1430/1569 leads.
- Modular components allow for easy expansion and reconfiguration without the need for re-wiring; eliminates the need for multiple cable assemblies, reduces installation time, reduces design time and lessens the need for special tools.
- Environmentally sealed connectors rated at IP 68 to prevent the ingress of dust, water, and other contaminants to reduce maintenance and downtime; internal gasket assures watertightness.

- · Contact inserts securely bonded in place with a proprietary process.
- Receptacle-to-pigtail potting bonds securely for excellent reliability.
- Gold over nickel plated contacts provide superior conductivity and corrosion resistance.
- Internal contact support maintains pin location and proper keyway alignment.
- Internal gasket assures watertight performance to IP 68 and NEMA 6P ratings.

. FU us



DC DIN Male & Female Receptacles

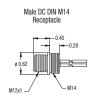
3-Pole: 4A, 4-Pole: 4A, 5-Pole: 4A / 300VDC

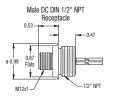
#### Male & Female Receptacles:

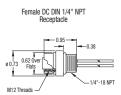
3-5 conductor leads: 22 AWG Euro DC color code; male external thread or female internal thread

3-5 conductor cable: 18 AWG Euro DC color code; male external thread or female internal thread receptacles

- Straight design
- Meets current SAE #H1738-2 specifications
- · Machined aluminum shell with black anodized finish







### DC DIN Pin Configurations & Color Coding

Female **Faces** 



3-Pole

DC DIN



4-Pole

DC DIN









DC DIN



DC DIN



Conductor Color Coding **Euro DC** 1. BRN 2. N/C 3. BLU 4. BLK 5. N/C

**Euro DC** 1. BRN 2. WHT 3. BLU 4. BLK 5. N/C

DC DIN **Euro DC** 1. BRN 2. WHT 3. BLU 4. BLK 5. GRY

Conductor Color Coding **Euro DC** 1. BRN 2. N/C 3. BLU 4. BLK

5. N/C

**Euro DC** 

1. BRN 2. WHT 3. BLU 4. BLK 5. N/C

5-Pole DC DIN

**Euro DC** 1. BRN 2. WHT 3. BLU

4. BLK

5. GRY

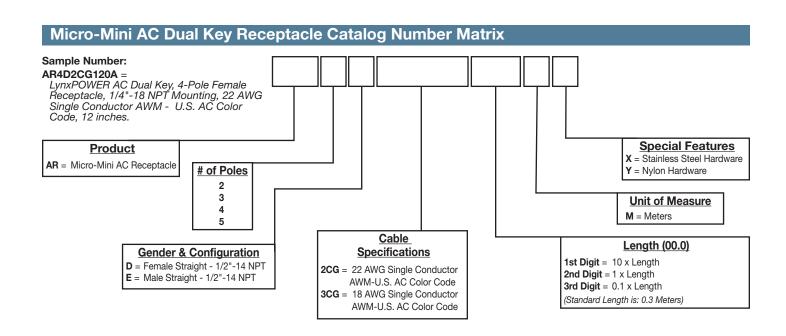
**TESTING & CODE COMPLIANCE** 

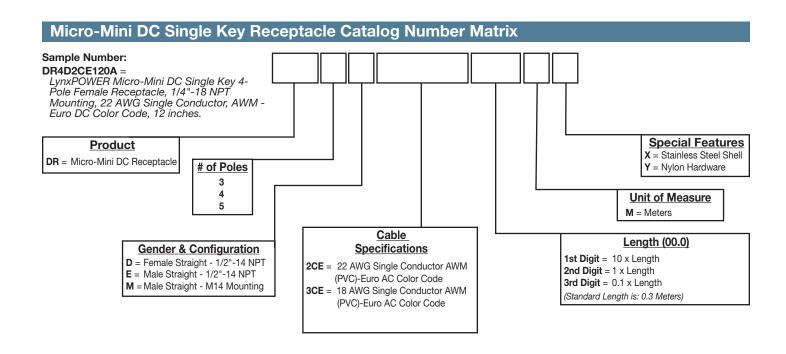
• UL Recognized, cURus, file no. E169897

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### **LynxPower**. Micro-Mini™ Receptacles

NEMA 1, 3, 4, 6P & 13; IEC IP 68





Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### **Lynxpower**...

### Micro-Mini™ Tees & **Accessories**

NEMA 1, 3, 4, 6P & 13; IEC IP 68



AT3RC3R Male-Female-Female Tee

**DC** Single Key

DT4RC3R

Tee

### Micro-Mini AC Dual Key & DC Single Tees

#### **FEATURES**

- Factory molded Tees offer quick and easy circuit branching options eliminating the need for hardwired boxes.
- Tees are available with molded to cable drops as well as molded wiring harnesses with multiple
- Compact body reduces the overall connectivity
- Flexible gender configurations allow the user to customize the product to fit their application.

**GAL**OUS

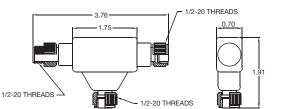
g Nus

#### Micro-Mini AC Dual Key Tapping Tee

### 2-Pole, 3-Pole, 4-Pole, 5-Pole: 5A/300V

#### 2, 3, 4, 5 conductor 18AWG

- Standard and low profile configurations
- 18 AWG and 22 AWG standard color code
- 300V 105°C
- Epoxy coated zinc diecast hardware
- Meets current SAE #H1738-2 specifications
- Vibration resistant ratchet design (diecast coupler)



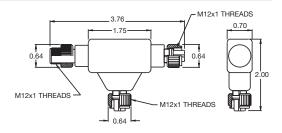


### Micro-Mini DC Single Key Tapping Tees

#### 3-Pole, 4-Pole, 5-Pole: 5A/300V

#### 3, 4, 5 conductor 18AWG

- 18 AWG and 22 AWG standard color code
- 300V 105°C
- Black epoxy coated hardware
- Meets current SAE #H1738-2 specifications



### **Dual Key AC Pin Configurations & Color Coding**

#### **Female Faces**

Male

**Faces** 



2-Pole

2-Pole





4-Pole

4-Pole





5-Pole



**Dual Key AC** 











5. RED/BLK

Conductor Color Coding

Female

**Faces** 

Male

**Faces** 



**Configurations & Color Coding** 

Single Key DC Pin

(3 5 0

3-Pole

DC DIN

**Euro DC** 

1. BRN

2 N/C

3. BLU

4. BI K

5. N/C



4-Pole

DC DIN

**Euro DC** 

1. BRN

2 WHT

3. BLU

4. BI K

5. N/C







5-Pole DC DIN

**Euro DC** 1. BRN 2 WHT 3. BLU 4. BI K

5. GRY

Conductor Color Coding **Dual Key AC** Standard 1. BRN 2. BLU

**Dual Key AC** Standard 1. GRN 2. RED/BLK 3. RED/WHT

3-Pole

**Dual Key AC** Standard 1. RFD/BLK 2 RFD/WHT 3. RED 4. GRN

**Dual Key AC** 

Standard 1. RED/WHT 2 RFD 3 GRN 4. RFD/YFI

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

GAL<sup>®</sup>us

### **Lynxpower**

### Micro-Mini™ Tees & **Accessories**

NEMA 1, 3, 4, 6P & 13; IEC IP 67

### Micro-Mini AC Dual Key Field Attachables

#### **FEATURES**

- Field attachable connectors allow users to quickly repair damaged molded cordsets.
- Allow users to create custom cordset lengths using their own cable.
- Optional 316 stainless steel couplers support food & beverage applications.
- Easy to use set screw terminals provide secure conductor to contact termination.



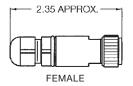
AF4C1 Female AC Field Attachable

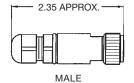
#### Micro-Mini AC Dual Key Field Attachable

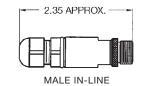
#### 2-Pole, 3-Pole, 4-Pole, 5-Pole: 5A/300V

#### 2, 3, 4, 5 conductor

- Female, Male and Male-In-Line versions
- Crimp style contact design
- Meets current SAE #H1738-2 specifications









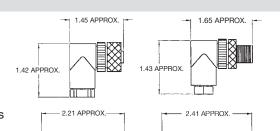
Male AC Field Attachable

### Micro-Mini DC Single Key Field Attachables

### 4-Pole: 4A/300V, 5-Pole: 3A/300V

#### 4, 5 conductor

- PG7 and PG9 thread (Grommet) sizes
- Female and Male-In-Line versions
- · Straight and right angle configuration
- Terminal screw attachments
- Meets current SAE #H1738-2 specifications





**Female DC** Field Attachable

### **Dual Key AC Pin** Configurations & Color Coding

#### Female **Faces**



**Dual Key AC** 



**Dual Key AC** 

**Standard** 

2. RED/BLK

3. RED/WHT

1. GRN



4-Pole

**Dual Key AC** 

2. RED/WHT

3. RED

4. GRN



5-Pole

**Dual Key AC** 







Configurations & Color Coding

4-Pole DC DIN

Single Key DC Pin

5-Pole DC DIN

Male **Faces** 





4-Pole DC DIN

5-Pole DC DIN

Conductor Color Coding

**Euro DC** 1. BRN 2. WHT 3. BLU 4. BLK

5. N/C

**Euro DC** 1. BRN 2. WHT 3. BLU 4. BLK

5. GRY

### Male **Faces**

Color

Coding

Conductor



**Dual Key AC** 

Standard

1. BRN

2. BLU









5. RED/BLK

5-Pole



**COOPER** Interconnect

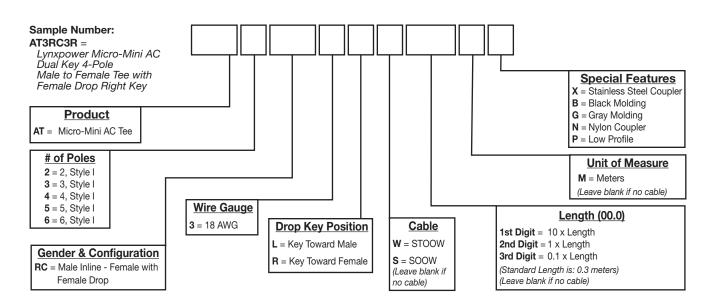
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Project Number:	Date:
Catalog Number:	Type:

### Lynxpower.

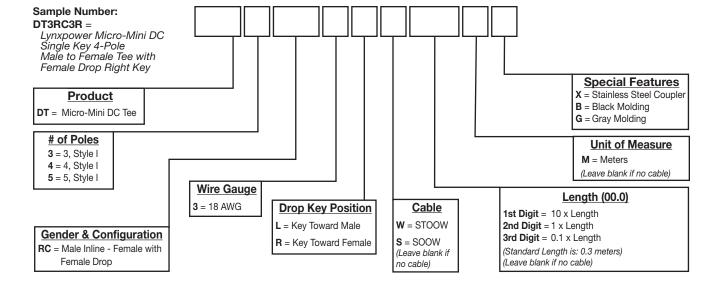
## Micro-Mini™ Tees & Accessories

NEMA 1, 3, 4, 6P & 13; IEC IP 68

### Micro-Mini AC Dual Key Tee Catalog Number Matrix



### Micro-Mini DC Single Key Tees Catalog Number Matrix



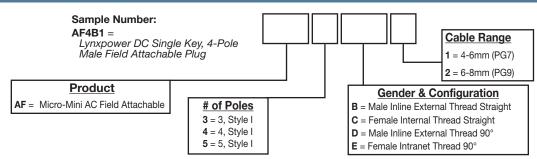
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Catalog Number:	Type:

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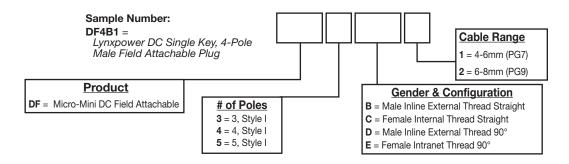
## Micro-Mini™ Tees & Accessories

NEMA 1, 3, 4, 6P & 13; IEC IP 68

### Micro-Mini AC Dual Key Field Attachables Number Matrix



### Micro-Mini DC Single Key Field Attachables Number Matrix



### **Micro-Mini Accessories**

### Micro-Mini AC Dual Key Caps

Description	Catalog No.
Cap for Micro-Mini AC Dual Key Male Internal Thread	□ AMC
Cap for Micro-Mini AC Dual Key Female External Thread	□ AFC

#### Micro-Mini DC Single Key Caps

Description	Catalog No.
Cap for Micro-Mini DC Single Key Male Internal Thread	□ DMC
Cap for Micro-Mini DC Single Key Female External Thread	□ DFC

## LynxPOWER™ Industrial Connectivity Accessories

# A complete offering of industrial connectivity accessories

Select from a wide range of accessories to complete any industrial connectivity installation, including plex boxes, tees, splitters and other accessories. Visit www.cooperinterconnect.com for more information.



Mini-Plex<sup>™</sup> 6-Port LED PNP Circuit Interconnect Distribution Box



Micro-Plex<sup>™</sup> 8-Port Network Interconnect Distribution Box

#### **Plex Boxes**

We offer a variety of Interconnect Distribution Boxes fitted with input and output Mini-Line<sup>™</sup>, Micro-Mini<sup>™</sup> AC Dual Key, or Micro-Mini DC DIN fittings. Available in series or parallel wired circuit versions, LED PNP or NPN circuit versions, solenoid configurations, top or side mount outputs for virtually any application requiring mating to Mini-Line or Micro-Mini systems.



SOFTPower Trunk to Drop Reducing Tee



Mini-Line Tapping Tee

#### **Tees**

Tees are available for each LynxPOWER family: SOFTPower™, Mini-Line, Micro-Mini, Pico-Line™, and Network. They come in a variety of styles, including tapping tees and reducing tees, many in standard and low-profile body styles. Body materials include Santoprene™ and PVC, chosen for their durability and to complement other LynxPOWER product materials.



Micro-Mini Dual Key AC "Y" Splitter, Standard Body Style



Micro-Mini DC DIN "T" Splitter, Standard Body Style

#### Y & T Splitters

Splitters are available for the Micro-Mini family in either "Y" or "T" configurations. A low-profile body style is available in "Y" versions; all Micro-Mini splitters feature diecast zinc epoxy-coated vibration-resistant ratchet couplers for the same durability as our Micro-Mini cordsets.



SOFTPower Change-Out to Mini-Line Reducing Adapter



Micro-Mini DC DIN Field Attachable

#### Other Accessories

A variety of other accessories are available for each LynxPOWER family. Choose from in-line field attachables in straight and right angle body styles, right angle adapters, ground adapters, Change-Out™ to Mini adapters, Mini to Micro adapters, network terminator assemblies, plus a variety of cordset and receptacle caps.

### **Cable Selector Guide**



	PVC (STOOW & AWM)	CPE (SOOW & SJOOW)	TPE
Service Temperature Range	-55° to +105° C	-40° to +105° C	-55° to +90° C
Oxidation Resistance	Excellent	Excellent	Outstanding
Heat Resistance	Good - Excellent	Excellent	Outstanding
Oil Resistance	Fair	Excellent	Outstanding
Low-Temperature Flexibility	Poor - Good	Excellent	Outstanding
Weather, Sun Resistance	Good - Excellent	Excellent	Outstanding
Ozone Resistance	Excellent	Excellent	Excellent
Abrasion Resistance	Fair - Good	Excellent - Outstanding	Excellent
Electrical Properties	Fair - Good	Excellent	Excellent
Flame Resistance	Excellent	Excellent	Outstanding
Nuclear Radiation Resistance	Fair	Outstanding	Excellent
Water Resistance	Fair - Good	Outstanding	Excellent
Acid Resistance	Good - Excellent	Excellent	Excellent
Alkalai Resistance	Good - Excellent	Excellent	Excellent
Aliphatic Hydrocarbons Resistance (Gas, Kerosene, etc.)	Poor	Excellent	Excellent
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	Poor - Fair	Good - Excellent	Excellent
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	Poor - Fair	Excellent	Excellent
Alcohol Resistance	Poor - Fair	Excellent	Excellent
Weld Slag	Fair	Outstanding	Excellent

### **Enclosure Rating Systems**

### NEMA Rating (National Electrical Manufacturers Association)

The NEMA rating indicates the level of protection the device has against water and dirt intrusion.

Protection From	Device Locations		
Frotection From	Indoors	Indoors or Outdoors	Outdoors with External Mechanisms
Limited amounts of falling dirt	NEMA Type 1		
Limited amounts of falling dirt and dripping water	NEMA Type 2		
Rain, sleet, falling dirt, windblown dust, damage from ice formation		NEMA Type 3	
Rain, sleet, falling dirt, damage from ice formation		NEMA Type 3R	
Rain, sleet, windblown dust, ice laden operation possible			NEMA Type 3S
Windblown dust and rain, splashing water, hose-directed water, damage from ice formation		NEMA Type 4	
Corrosion, windblown dust and rain, splashing water, hose-directed water, damage from ice formation		NEMA Type 4X	
Falling dirt and settling airborne dust, lint, fibers and dripping non-corrosive liquids	NEMA Type 5		
Hose-directed water, entry of water during occasional short-term limited depth submersion, damage from ice formation		NEMA Type 6	
Hose-directed water, entry of water during long-term limited depth submersion, damage from ice formation		NEMA Type 6P	
Class I, Division 1, groups A,B,C or D hazardous locations (as defined by NEC®, NFPA 70)	NEMA Type 7 (commonly referred to as explosion-proof)		
Class I, Division 1, groups A,B,C or D hazardous locations (as defined by NEC®, NFPA 70)	NEMA Type 8 (commonly referred to as oil-immersed)		
Class II, Division 1, groups E, F and G hazardous locations (as defined by NEC®, NFPA 70)	NEMA Type 9 (commonly referred to as dust-ignition-proof)		
Meets applicable requirements of the Mine Safety & Health Administration, 30 CFR, Part 18		NEMA Type 10	
Circulating dust, falling dirt, dripping non-corrosive liquids	NEMA Type 12 NEMA Type 12K		
Dust, spraying of water, oil and non-corrosive coolant	NEMA Type 13		



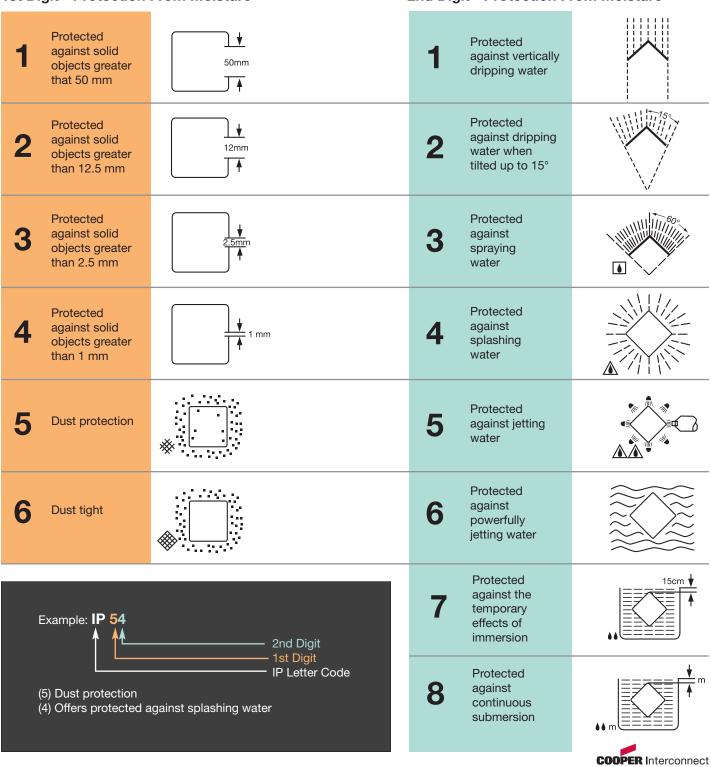


## IP (Ingress Protection) Code Symbols

The chart below illustrates the use of special symbols in the IP classification system. The first digit of an IP number represents protection from solid objects and the second digit indicates protection from moisture.

### 1st Digit - Protection From Moisture

### 2nd Digit - Protection From Moisture





Download a 2D barcode reader application to your smart phone to visit us online: www.cooperinterconnect.com

#### **Cooper Interconnect**

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www.cooperinterconnect.com email: cilgorders@cooperindustries.com • cooperinterconnectnews@cooperindustries.com

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