

LynxPOWER™
Passive connectivity solutions



Dependable connectivity
for power & control



Crouse-Hinds
by **EAT•N**

Realize time and cost savings with LynxPOWER™ industrial connectivity.

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

Improve the efficiency, safety and uptime of your facility with LynxPOWER™ industrial connectivity solutions.

- Designed specifically to withstand industrial manufacturing environments
- Lowers maintenance and facility costs due to quick and easy change-out modular design
- Keyed to ensure accurate and safe connections every time
- Customized configurations to meet your specific application

Core cordsets stocked in our Roanoke distribution center for fast delivery.

Mini-Line

catalog pages 4-13

Product Applications:

- Food processing equipment
- Conveyors and assembly lines
- Packaging equipment



Micro-Mini

catalog pages 14-27

Product Applications:

- Pick-n-place machines
- Robotic equipment
- Industrial sensors



Standard product offering selector guide

		Mini-Line	AC	Micro-Mini	DC
Voltage Rating	600VAC	•			
	300VAC		•		
	300VDC				•
Current Rating*	3A	•	•		•
	4A	•	•		•
	5A	•	•		•
	6A to 13A	•			
Threading	12mm				•
	1/2"		•		
	7/8 to 1-1/8"				
Keyway	Single	•			•
	Double		•		
Poles	2	•	•		•
	3	•	•		•
	4	•	•		•
	5	•	•		•
	6	•	•		
	7 through 12	•			

*Refer to specific part number for amperage rating.

Cable jacket characteristics selector guide

Cable Designation	Cable Jacket Type	Product Line	Voltage Rating	Typical Application
STOOW	PVC	Mini-Line	600	Material Handling
SOOW	Rubber	Mini-Line	600	Washdown, Flexibility
SEOW	Thermo-plastic Elastomer (TPE)	Mini-Line	600	Manufacturing Process
SJTOOW	PVC (UL AWM Style 2661)	Micro-Mini	300	Material Handling
SJEOW	Thermo-plastic Elastomer (UL AWM Style 20626)	Micro-Mini	300	Manufacturing Process

Cable Nomenclature

S	Service Grade (also means extra hard service when not followed by J, V, P)
J	Junior Cable Grade (rated for 300V for Hard Service)
T	Thermo-plastic Material PVC

Cable Nomenclature

E	Thermoplastic Elastomer Material (UL/NEC only)
O	Oil-Resistant Cable Jacket
OO	Oil-Resistant Cable and Individual Conductors Jackets
W	Weather (Outdoors) Resistant

Stock and custom connectivity solutions for your unique applications



Stock items

Many of our LynxPOWER™ products are in stock and available for immediate purchase and quick delivery. Contact your Eaton's Crouse-Hinds sales representative for a full list of products.



Made to order

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



Contact us for more information

Eaton's Crouse-Hinds Customer Service
PH: 866-764-5454
E: crouse.customerctr@cooperindustries.com

Mini-Line Applications

A complete line of connectivity solutions to meet your specific needs

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.

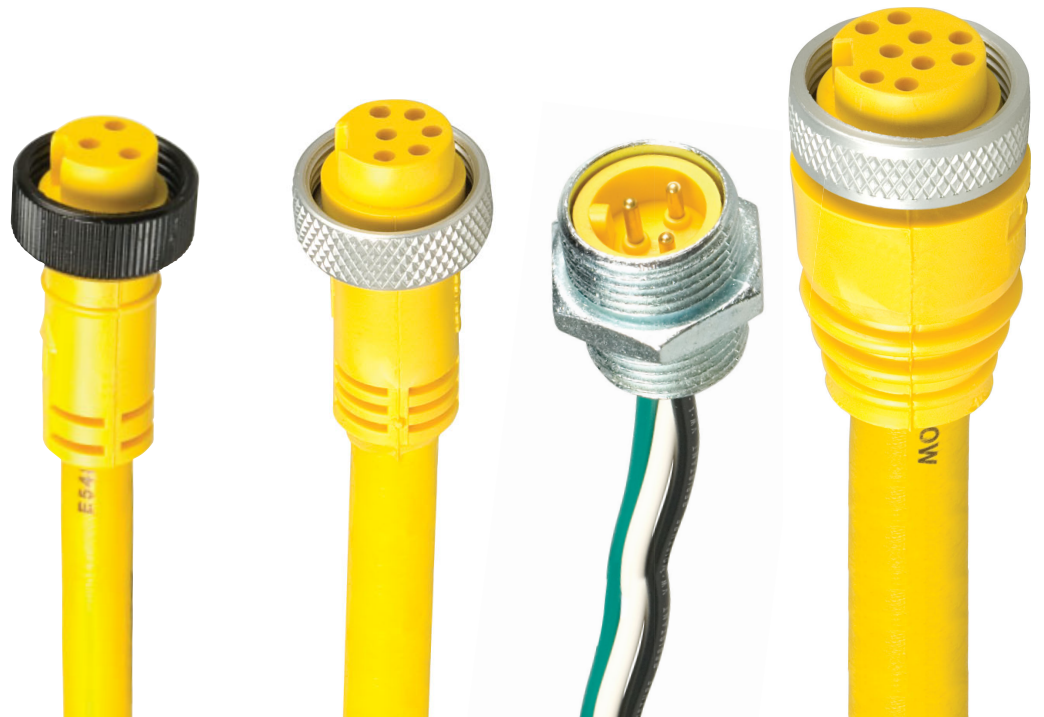
Mini-Line is ideal for industrial manufacturing, production line equipment, packaging equipment, conveyors and assembly lines, plus food and beverage processing equipment.

Mini-Line connection points mean less downtime, easier maintenance and increased safety by replacing traditional hard wiring with a plug-and-run 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.

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.

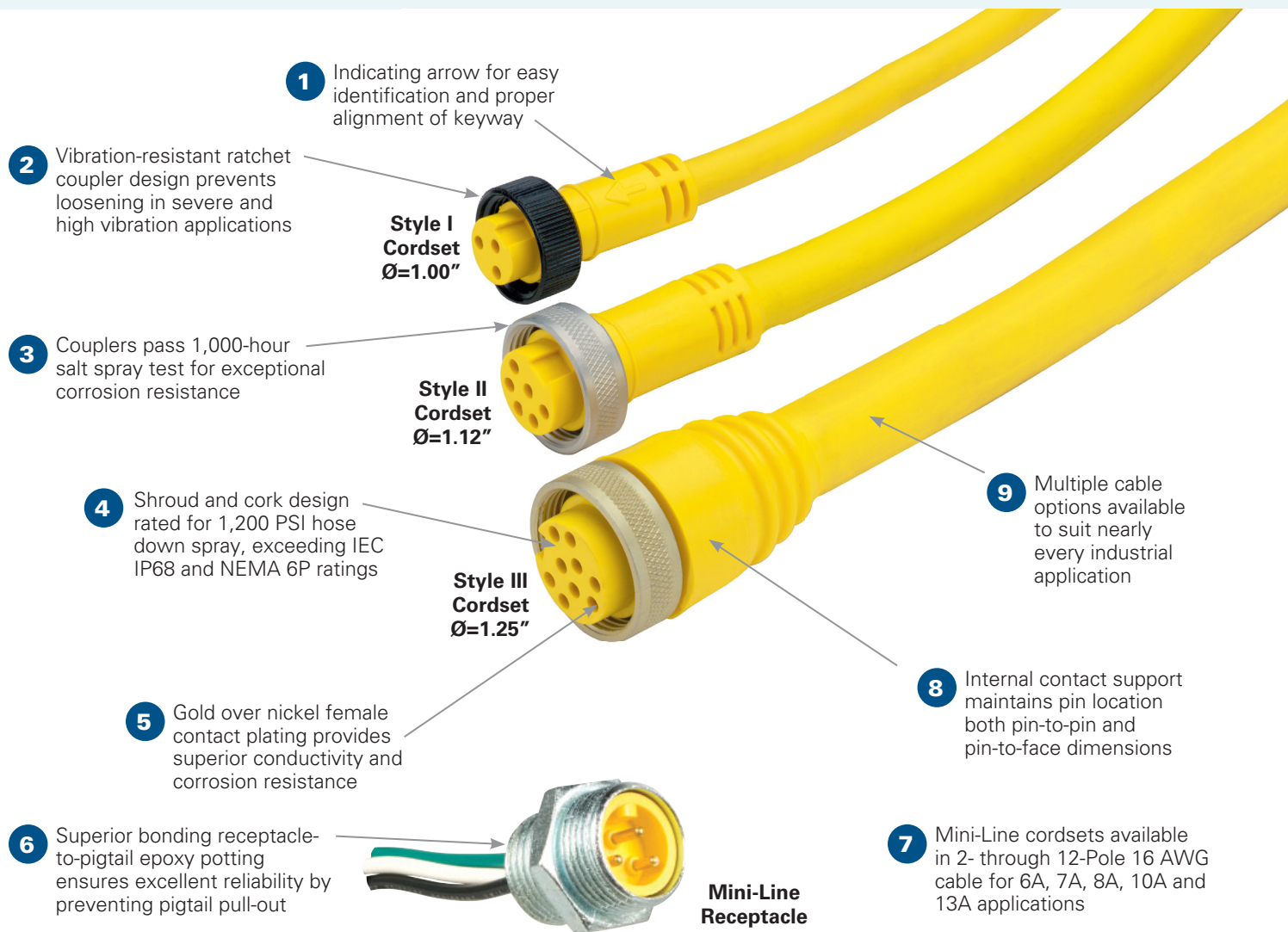


Mini-Line

Features & Benefits

Quality, dependable connectivity solutions for today's industrial applications

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



Stock items available in 3- through 6-pole

Accessories

Whether you need to create complex power, signal networks or simply add another drop connection, we have the Mini-Line adapters and accessories you need.

Just visit
www.crouse-hinds.com



Mini-Plex Boxes

Industrial
Interconnect
Distribution Systems



Mini-Line Tees & Splitters

Industrial
Connectivity



Mini-Line Field Attachables, Adapters & Caps

Industrial Connectivity

Mini-Line Cordsets

Features

- Factory molded-to-cable cordsets provide quick connect capability.
- Modular components allow for easy expansion and reconfiguration without the need for rewiring; 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 IP68 to prevent the ingress of dust, water and other contaminants to reduce maintenance and downtime.
- Vibration-resistant ratchet couplers assure cordsets stay connected 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 IP68 and NEMA 6P rating (rated 1,200 PSI hose down spray).
- Easy-stripping jacketed cable design allows fast stripping with simple hand tools; high-flex copper stranding delivers improved flexibility; multiple cable options.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963



ML3A4WC030F
Style I
Male Plug



MLWA4WC030F
Style II
Male Plug



ML9A4WC030F
Style III
Male Plug



ML3C4WC030F
Style I
Female Plug



MLWC4WC030F
Style II
Female Plug

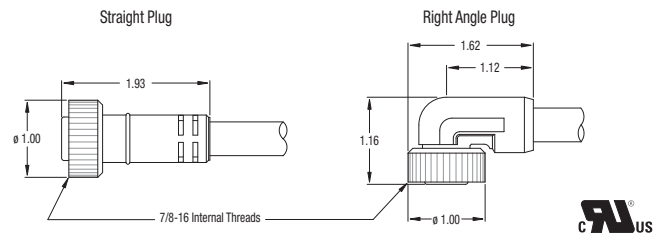


ML9C4WC030F
Style III
Female Plug

Male & Female Cordsets

Style I Male & Female Plugs

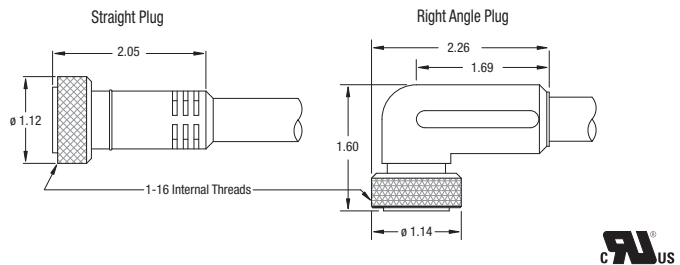
- Cable options: ST00W, SO0W or SEOW
- Straight and right angle body designs
- Vibration-proof ratchet coupler design
- Zinc, nylon and stainless steel coupler options
- Meets current SAE #H1738-2 specifications



2-Pole: 13A, 3-Pole: 13A, 4-Pole: 10A, 5-Pole: 8A, 6-Pole: 6A
2, 3, 4, 5, 6 Conductor 16 AWG Standard Color Code

Style II Male & Female Plugs

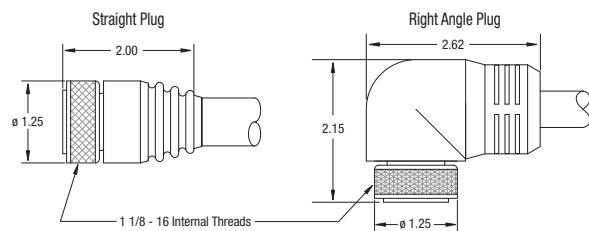
- Cable options: ST00W
- Straight and right angle body designs
- Vibration-proof ratchet coupler design
- Aluminum and stainless steel coupler options
- Meets current SAE #H1738-2 specifications



6-Pole: 8A, 7-Pole: 7A, 8-Pole: 7A
6, 7, 8 Conductor 16 AWG Standard Color Code

Style III Male & Female Plugs

- Cable options: ST00W
- Straight and right angle body designs
- Vibration-proof ratchet coupler design
- Aluminum and stainless steel coupler options
- Meets current SAE #H1738-2 specifications



Style 3, with Aluminum Coupler and SO0W Cable

9-Pole: 7A, 10-Pole: 7A, 12-Pole: 7A
9, 10, 12 Conductor 16 AWG Standard Color Code

Mini-Line Cordsets

Pin Configurations & Color Coding

Female Faces

2-Pole
Style I

3-Pole
Style I

4-Pole
Style I

5-Pole
Style I

6-Pole
Style I

6-Pole
Style II

7-Pole
Style II

8-Pole
Style II

9-Pole
Style III

10-Pole
Style III

12-Pole
Style III

Male Faces

2-Pole
Style I

3-Pole
Style I

4-Pole
Style I

5-Pole
Style I

6-Pole
Style I

6-Pole
Style II

7-Pole
Style II

8-Pole
Style II

9-Pole
Style III

10-Pole
Style III

12-Pole
Style III

Conductor Color Coding

Standard

1. WHT
2. BLK

Standard

1. GRN
2. BLK
3. WHT

Standard

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

Standard

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

Standard

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

Standard

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

Standard

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

Standard

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

Standard

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

Standard

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

Standard

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

Mini-Line Cordset Catalog Number Matrix

Sample Number:
ML4A4WC120F =
LynxPOWER™ Mini-Line 4-Pole Male Plug, 16
AWG Yellow ST00W-U.S. Std. Color Code,
12 Foot Length, Stainless Steel Coupler.

Product

ML = Mini-Line Cordset

Number of Poles

2 = 2, Style I

3 = 3, Style I

4 = 4, Style I

5 = 5, Style I

6 = 6, Style I

W = 6, Style II

7 = 7, Style II

8 = 8, Style II

9 = 9, Style III

A = 10, Style III

C = 12, Style III

Plug Gender & Configuration

A = Male, Straight Plug, Internal Thread, Pigtail

C = Female, Straight Plug, Internal Thread, Pigtail

D = Male, 90° Plug, Internal Thread, Pigtail

F = Female, 90° Plug, Internal Thread, Pigtail

G = Male, 90° Plug to Female, Straight Plug

J = Male, 90° Plug to Female, 90° Plug

P = Male, Straight Plug to Female, Straight Plug

S = Male, Straight Plug to Female, 90° Plug

Special Features

BLANK = Standard Zinc Alloy or Aluminum Coupler

X = Stainless Steel Coupler

Y = Nylon Coupler

L = Neon Plug (3 pole only)

Unit of Measure

F = Feet

Length (00.0)

1st Digit = 10 x Length

2nd Digit = 1 x Length

3rd Digit = 0.1 x Length

Standard lengths are 3, 6, 12 & 30 feet.

Cable Specifications

4WC = 16 AWG ST00W-US Std. Color Code

4AC = 16 AWG SE0W-US Std. Color Code

4SC = 16 AWG SO0W-US Std. Color Code

Available in 3-6 pole, Style I configuration as a standard product offering

Highlighted options are not part of the standard product offering and considered "Made to Order".

Please contact Customer Service for ordering information and lead times.

Mini-Line Receptacles

Features

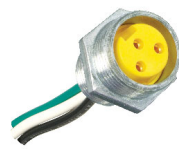
- Modular components allow for easy expansion and reconfiguration without the need for rewiring; eliminates the need for multiple cable assemblies, reduces installation time, reduces design time and lessens the need for special tools.
- Environmentally sealed connectors rated at IP68 to prevent the ingress 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 IP68 and NEMA 6P rating (rated 1,200 PSI hose down spray).

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963



MR3F4BC100A
Style I
Female Receptacle



MRWF4BC100A
Style II
Female Receptacle



MR9F4BC100A
Style III
Female Receptacle



MR3E4BC100A
Style I
Male Receptacle



MRWE4BC100A
Style II
Male Receptacle

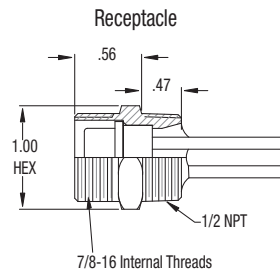


MR9E4BC100A
Style III
Male Receptacle

Male & Female Receptacles

Style I Male & Female

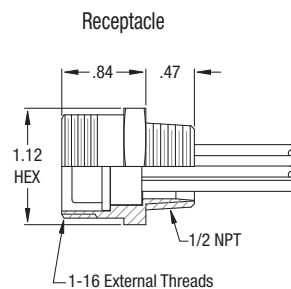
- Cable options: PVC single conductor flying leads
- 1/2"-14 NPT mounting threads
- Zinc, nylon and stainless steel shell options
- Meets current SAE #H1738-2 specifications



2-Pole: 13A, 3-Pole: 13A, 4-Pole: 10A, 5-Pole: 8A, 6-Pole: 6A
2, 3, 4, 5, 6 Conductor 16 AWG U.S. Standard Color Code

Style II Male & Female

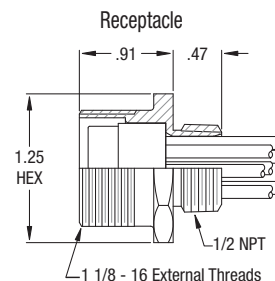
- Cable options: PVC single conductor flying leads
- 1/2"-14 NPT mounting threads
- Aluminum and stainless steel shell options
- Meets current SAE #H1738-2 specifications



6-Pole: 8A, 7-Pole: 7A, 8-Pole: 7A
6, 7, 8 Conductor 16 AWG U.S. Standard Color Code

Style III Male & Female

- Cable options: PVC single conductor flying leads
- 1/2"-14 NPT mounting threads
- Aluminum and stainless steel shell options
- Meets current SAE #H1738-2 specifications



9-Pole: 7A, 10-Pole: 7A, 12-Pole: 7A
9, 10, 12 Conductor 16 AWG U.S. Standard Color Code

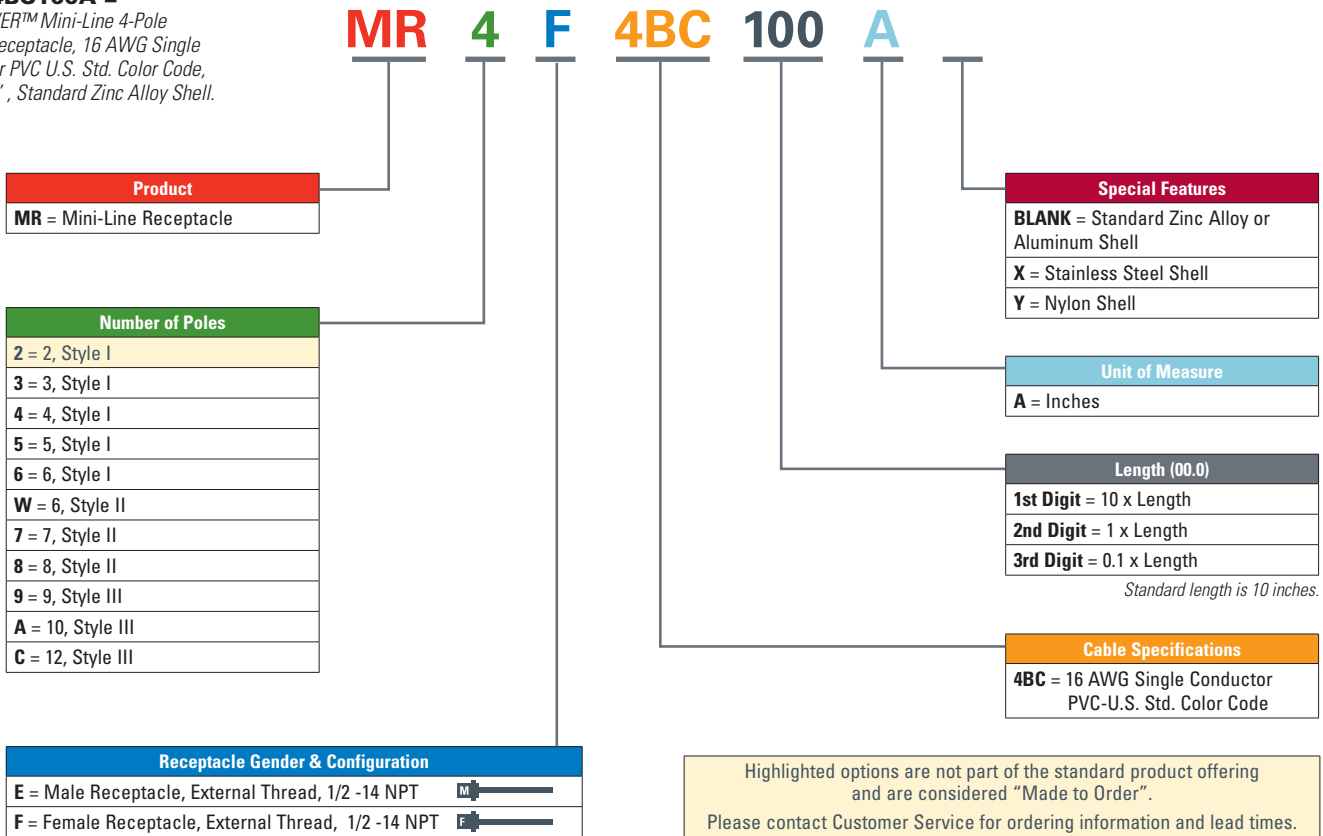
Mini-Line Receptacles

Pin Configurations & Color Coding

Female Faces											
	2-Pole Style I	3-Pole Style I	4-Pole Style I	5-Pole Style I	6-Pole Style I	6-Pole Style II	7-Pole Style II	8-Pole Style II	9-Pole Style III	10-Pole Style III	12-Pole Style III
Male Faces											
	2-Pole Style I	3-Pole Style I	4-Pole Style I	5-Pole Style I	6-Pole Style I	6-Pole Style II	7-Pole Style II	8-Pole Style II	9-Pole Style III	10-Pole Style III	12-Pole Style III
Conductor Color Coding	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	1. WHT 2. BLK	1. GRN 2. BLK 3. WHT	1. BLK 2. WHT 3. RED 4. GRN	1. WHT 2. RED 3. GRN 4. ORG 5. BLK	1. WHT 2. RED 3. GRN 4. ORG 5. BLK 6. BLU	1. ORG 2. BLU 3. BLK 4. WHT 5. RED 6. GRN	1. WHT/BLK 2. BLK 3. WHT 4. RED 5. ORG 6. BLU 7. GRN	1. ORG 2. BLU 3. WHT/BLK 4. BLK 5. WHT 6. RED 7. GRN 8. RED/BLK	1. ORG 2. BLU 3. RED/BLK 4. GRN/BLK 5. WHT 6. RED 7. GRN 8. WHT/BLK 9. BLK	1. ORG 2. BLU 3. WHT/BLK 4. RED/BLK 5. GRN/BLK 6. ORG/BLK 7. BLU/BLK 8. GRN 9. BLK 10. WHT	1. ORG 2. BLU 3. WHT/BLK 4. RED/BLK 5. GRN/BLK 6. ORG/BLK 7. BLU/BLK 8. BLK/WHT 9. GRN 10. RED 11. WHT 12. BLK

Mini-Line Receptacle Catalog Number Matrix

Sample Number:
MR4F4BC100A =
*LynxPOWER™ Mini-Line 4-Pole
Female Receptacle, 16 AWG Single
Conductor PVC U.S. Std. Color Code,
Cable 10", Standard Zinc Alloy Shell.*



Consult factory for different flange or mounting options

Mini-Line Tees & Accessories

Features

- Modular components allow for easy expansion and reconfiguration without the need for rewiring; 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 and beverage industry applications.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963



MT5RC4R
Style I
Male-Female-Female Tee

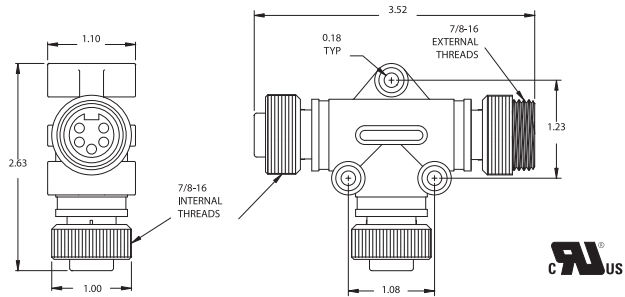


MF4B1
Style I
Male In-Line
Field Attachable

Tees & Field Attachables

Style I Tees

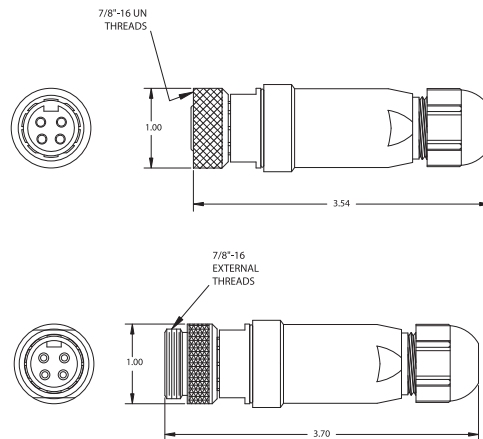
- Male and female plug connectivity
- Available with molded drop cable
- Black and gray molded body options
- Zinc, nylon AND stainless steel coupler options available
- IP68



2-Pole: 13A, 3-Pole: 13A, 4-Pole: 10A, 5-Pole: 8A, 6-Pole: 6A
2, 3, 4, 5, 6 Conductor 16 AWG Tees Available

Style I Field Attachables

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



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

Mini-Line Tees & Accessories

Mini-Line Tees Catalog Number Matrix

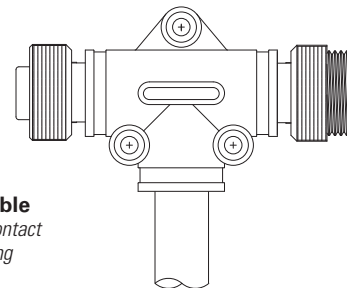
Sample Number:

MT4RC4R =

LynxPOWER™ Mini-Line 4-Pole,
Male to Female Tee with Female
Drop Right Key, Standard Zinc
Alloy Coupler.

MT	4	RC	4	R
Product				
MT = Mini-Line Tee				
Number of Poles				
2 = 2, Style I				
3 = 3, Style I				
4 = 4, Style I				
5 = 5, Style I				
6 = 6, Style I				
Gender & Configuration				
RC = Male In-Line to Female with Female Drop				
Wire Gauge				
4 = 16 AWG				
Drop Key Position				
L = Key Toward Male				
R = Key Toward Female				

Special Features
BLANK = Standard Zinc Alloy Coupler
X = Stainless Steel Coupler
Y = Nylon Coupler



Mini-Line Style I Tee with Molded Drop Cable
"Made to Order" product; contact Customer Service for ordering information and lead times.

Mini-Line Field Attachable Catalog Number Matrix

Sample Number:

MF3B1 =

LynxPOWER™ Mini-Line 3-Pole,
Male In-Line Field Attachable Plug.

MF	3	B	1
Product			
MF = Mini-Line Field Attachable			
Number of Poles			
3 = 3, Style I			
4 = 4, Style I			
5 = 5, Style I			
Gender & Configuration			
B = Male In-Line, External Thread, Straight			
C = Female, Internal Thread, Straight			
D = Male In-Line, External Thread, 90°			
E = Female, Internal Thread, 90°			
Cable Specifications			
1 = 0.20" - 0.48"			

Passive Accessories



Cap with External Threads

Catalog Number	Description
M1MC	ML1 Cap for Plugs
M2MC	ML2 Cap for Plugs
M3MC	ML3 Cap for Plugs

Cap with Internal Threads

Catalog Number	Description
M1FC	ML1 Cap for Receptacles
M2FC	ML2 Cap for Receptacles
M3FC	ML3 Cap for Receptacles

Mini Line 4-Port Plex Boxes

Features

- Allow for consolidation of signal into one cable, reducing the number of cables needed.
- PNP wiring configuration with LED indicator lights.
- 4-port and 8-port output options standard.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

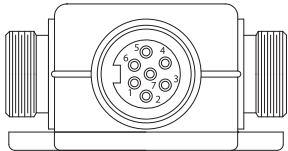
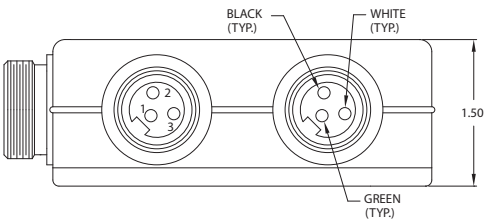
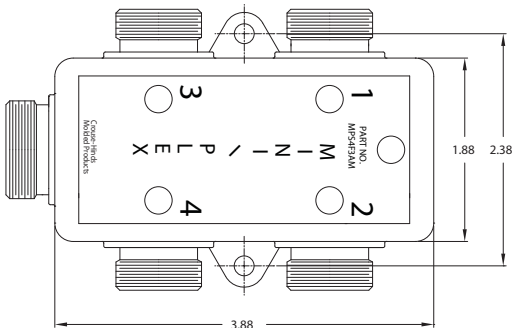
Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963

MPS4F3AM
Single Key
4-port Plex Box



Catalog Number	Number of Ports	Output Port Gender	Output Port # of Poles	Wiring Config.	Input Port Gender	Input Port # of Poles	Voltage
MPS4F3AM	4	Female	3	Parallel	Male	6	600VAC
MPS4F3CM	4	Female	3	PNP	Male	6	120VAC



Single Key DC Pin Configurations & Color Coding

Female
Faces



3-Pole
Style I

Male
Faces



3-Pole
Style I

Conductor
Color
Coding

Standard
1. GRN
2. BLK
3. WHT

Micro-Mini Applications

When customized connections are critical to your operation

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 materials chosen to mate with Micro-Mini cordsets and provide a cable assembly with far superior service.

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.

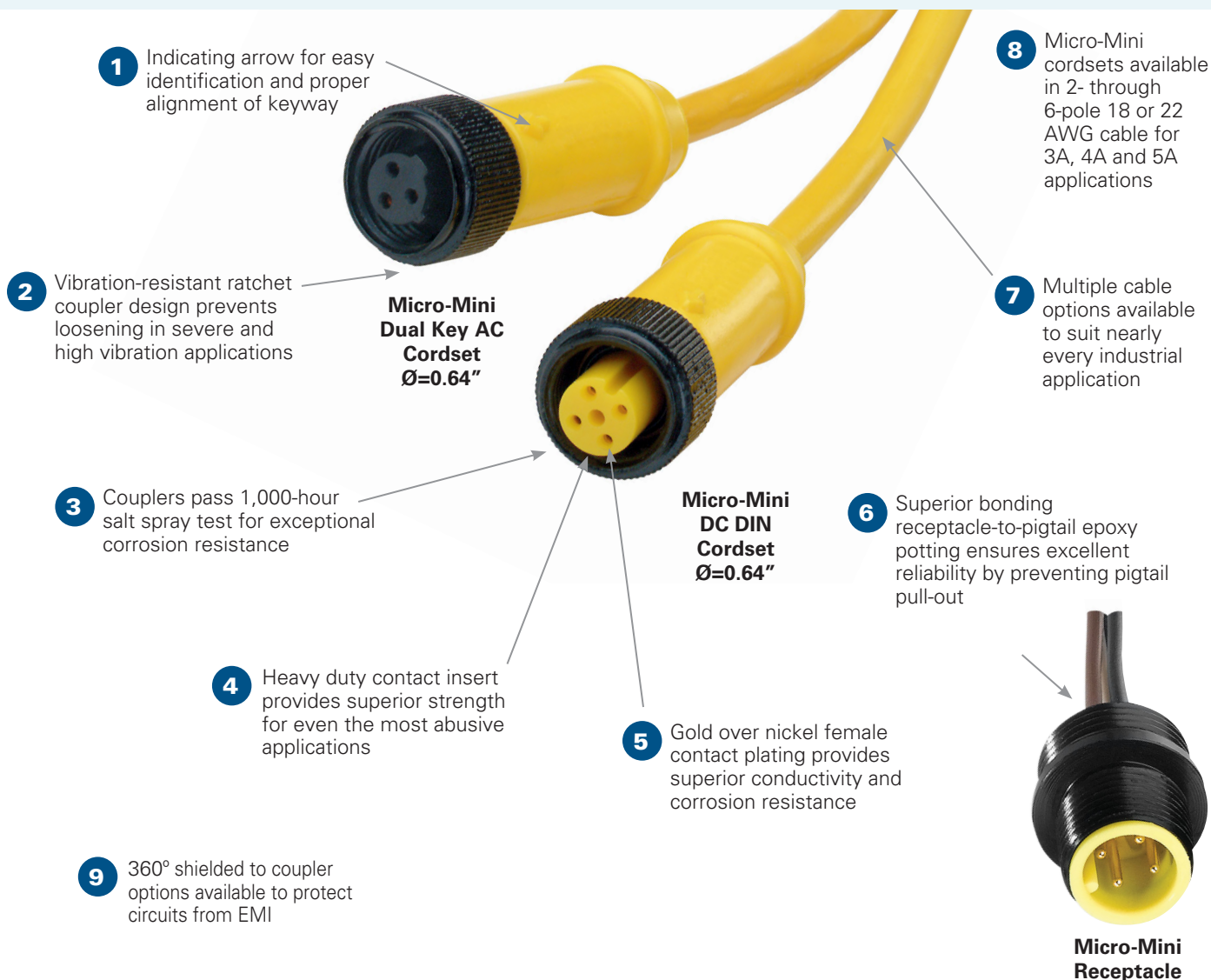


Micro-Mini

Features & Benefits

The ideal connectivity solution for sensor and control devices

Micro-Mini (M12) for DC circuits 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 simply add another drop into a connection, we have the Micro & Pico adapters and accessories you need.

Just visit
www.crouse-hinds.com



Micro-Plex Boxes
Industrial Interconnect
Distribution Systems



**Micro Tees
& Splitters**
Industrial Connectivity



**Micro Field
Attachables,
Adapters & Caps**
Industrial Connectivity

Micro-Mini Cordsets AC Dual Key

Features

- Designed for low amperage 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 rewiring; 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 IP68 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

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963



AM3B2MG010M
Dual Key AC
Male Plug

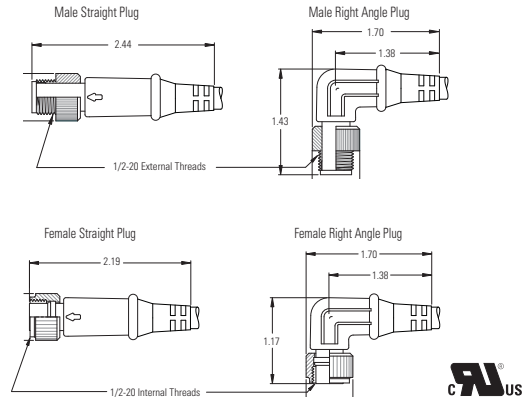


AM5C3AG010M
Dual Key AC
Female Plug

Male & Female Cordsets

Dual Key AC, Male & Female Plugs

- Cable options: PVC (UR AWM Style 2661) or thermoplastic elastomer (UR AWM Style 20626)
- Straight and right angle body designs
- Vibration-proof ratchet coupler design
- Zinc, nylon and stainless steel coupler options
- Meets current SAE #H1738-2 specifications



2-Pole: 4A, 3-Pole: 4A, 4-Pole: 4A, 5-Pole: 4A, 6-Pole: 3A / 300VAC
2, 3, 4, 5, 6 Conductor 18 & 22 AWG U.S. AC Color Code

Dual Key AC Pin Configurations & Color Coding

Female Faces

2-Pole Dual Key AC

Conductor Color Coding



Standard
1. BRN
2. BLU



3-Pole Dual Key AC

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



4-Pole Dual Key AC

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



5-Pole Dual Key AC

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



6-Pole Dual Key AC

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

Male Faces

2-Pole Dual Key AC

Conductor Color Coding



Standard
1. BRN
2. BLU



3-Pole Dual Key AC

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



4-Pole Dual Key AC

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



5-Pole Dual Key AC

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



6-Pole Dual Key AC

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

Micro-Mini Cordsets DC Single Key

Features

- Designed for low amperage 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 rewiring; 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 IP68 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 design allows fast stripping with simple hand tools; high-flex copper stranding delivers improved flexibility; multiple cable type options.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

Testing & Code Compliance

- UL recognized, cURus File No. E169897



DM3B2ME010M
DC Single Key
Male Plug



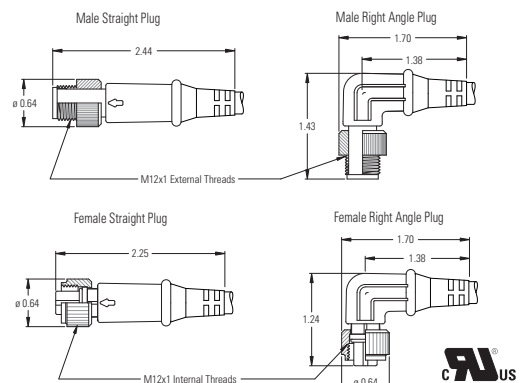
DM3F2ME010MN
DC Single Key
Female LED Plug

Male & Female Cordsets

DC Single Key (M12), Male & Female Plugs

3-Pole: 4A, 4-Pole: 4A, 5-Pole: 4A /
3-Pole: 5A, 4-Pole: 5A / 300VDC
2, 3, 4, 5 Conductor 18 & 22 AWG Euro DC Color Code

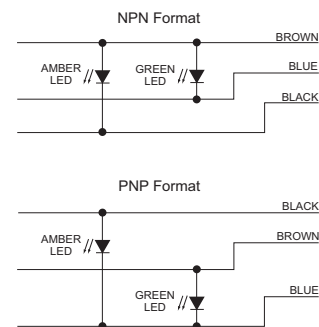
- Cable options: PVC (UR AWM Style 2661) or thermoplastic elastomer (UR AWM Style 20626)
- Straight and right angle body designs
- Vibration-proof ratchet coupler design
- Zinc, nylon and stainless steel coupler options
- Meets current IEC 61076-2-101 specifications



DC Single Key (M12), LED Female Plugs

3-Pole: 4A, 4-Pole: 4A, 5-Pole: 4A /
3-Pole: 5A, 4-Pole: 5A / 10-30VDC
2, 3, 4, 5 Conductor 18 & 22 AWG Euro DC Color Code

- Same options as DC single key male and female plugs
- Right angle body designs with PNP or NPN wiring



Micro DIN Pin Configurations & Color Coding

Female Faces



3-Pole
DC Single Key
Female



4-Pole
DC Single Key
Female



5-Pole
DC Single Key
Female

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

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

Male Faces



3-Pole
DC Single Key
Male



4-Pole
DC Single Key
Male



5-Pole
DC Single Key
Male

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

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

Micro-Mini Cordsets

Micro-Mini AC Dual Key Cordset Catalog Number Matrix

Sample Number:

AM4B2MG010M =

LynxPOWER™ AC Dual Key, 4-Pole Male Plug, 22 AWG Yellow PVC - U.S. AC Color Code, Cable 1 Meter, Standard Zinc Alloy Coupler.

AM **4** **B** **2MG** **010** **M**

Product
AM = Micro-Mini AC Cordset

Number of Poles
2
3
4
5
6

Plug Gender & Configuration	
B = Male, Straight Plug, External Thread, Pigtail	M
C = Female, Straight Plug, Internal Thread, Pigtail	F
E = Male, 90° Plug, External Thread, Pigtail	M
F = Female, 90° Plug, Internal Thread, Pigtail	F
H = Male, 90° Plug to Female, Straight Plug	M F
K = Male, 90° Plug to Female, 90° Plug	M F
R = Male, Straight Plug to Female, Straight Plug	M F
T = Male, Straight Plug to Female, 90° Plug	M F

Special Features
BLANK = Standard Zinc Alloy Coupler
X = Stainless Steel Coupler
Y = Nylon Coupler

Unit of Measure
M = Meters

Length (00.0)
1st Digit = 10 x Length
2nd Digit = 1 x Length
3rd Digit = 0.1 x Length

Standard lengths are 1, 2, 3, 5 and 10 meters.

Cable Specifications
2AG = 22 AWG TPE-U.S. AC Color Code
2MG = 22 AWG PVC-U.S. AC Color Code
3AG = 18 AWG TPE-U.S. AC Color Code
3MG = 18 AWG PVC-U.S. AC Color Code

Highlighted options are not part of the standard product offering and are considered "Made to Order". Please contact Customer Service for ordering information and lead times.

Micro-Mini DC Single Key Cordset Catalog Number Matrix

Sample Number:

DM4B2ME010M =

LynxPOWER™ DC Single Key, 4-Pole Male Plug, 22 AWG Yellow PVC - Euro DC Color Code, Cable 1 Meter, Standard Zinc Alloy Coupler.

DM **4** **B** **2ME** **010** **M**

Product
DM = Micro-Mini DC Cordset

Number of Poles
3
4
5

Plug Gender & Configuration	
B = Male, straight plug, external thread, pigtail	M
C = Female, straight plug, internal thread, pigtail	F
E = Male, 90° plug, external thread, pigtail	M
F = Female, 90° plug, internal thread, pigtail	F
H = Male, 90° plug to Female, straight plug	M F
K = Male, 90° plug to Female, 90° plug	M F
R = Male, straight plug to Female, straight plug	M F
T = Male, straight plug to Female, 90° plug	M F

Special Features
BLANK = Standard Zinc Alloy Coupler
X = Stainless Steel Coupler
Y = Nylon Coupler
S = Shielded Cable
B = 360° Shielded to Coupler
N = NPN LED Plug
P = PNP LED Plug

Unit of Measure
M = Meters

Length (00.0)
1st Digit = 10 x Length
2nd Digit = 1 x Length
3rd Digit = 0.1 x Length

Standard lengths are 1, 2, 3, 5 and 10 meters.

Cable Specifications
2ME = 22 AWG PVC-Euro DC Color Code
2AE = 22 AWG TPE-Euro DC Color Code
3AE = 18 AWG TPE-Euro DC Color Code
3ME = 18 AWG PVC-Euro DC Color Code

Highlighted options are not part of the standard product offering and are considered "Made to Order". Please contact Customer Service for ordering information and lead times.

Micro-Mini Receptacles AC Dual Key

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 rewiring; 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 IP68 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 IP68 and NEMA 6P ratings.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963



AR3E2CG003M
Male Plug



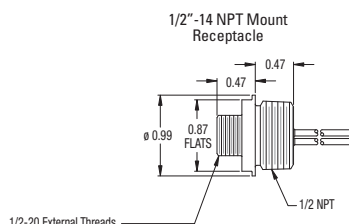
AR3D2CG003M
Female Plug

Male & Female Receptacles

AC Dual Key Male & Female Receptacles

2-Pole: 4A, 3-Pole: 4A, 4-Pole: 4A, 5-Pole: 4A, 6-Pole: 3A / 300VAC
2, 3, 4, 5, 6 Conductor 18 & 22 AWG U.S. AC Color Code

- Cable options: PVC single conductor flying leads
- 1/2"-14 NPT mounting threads
- Aluminum, nylon and stainless steel shell options
- Meets current SAE #H1738-2 specifications



Dual Key AC Pin Configurations & Color Coding

Female Faces



2-Pole
Dual Key AC

Conductor Color Coding

Standard
1. BRN
2. BLU



3-Pole
Dual Key AC

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



4-Pole
Dual Key AC

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



5-Pole
Dual Key AC

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



6-Pole
Dual Key AC

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

Male Faces



2-Pole
Dual Key AC

Conductor Color Coding

Standard
1. BRN
2. BLU



3-Pole
Dual Key AC

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



4-Pole
Dual Key AC

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



5-Pole
Dual Key AC

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



6-Pole
Dual Key AC

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

Micro-Mini Cordsets AC Dual Key

Features

- 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 rewiring; 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 IP68 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 IP68 and NEMA 6P ratings.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963



DR4E2CE003M
Male Plug

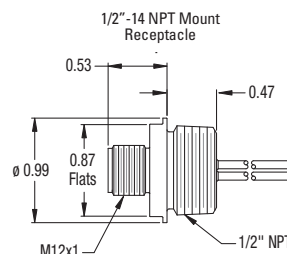


DR4D2CE003M
Female Plug

Male & Female Receptacles

DC DIN Male & Female Receptacles

- Cable options: PVC single conductor flying leads
- 1/2"-14 NPT mounting threads available
- Aluminum, nylon and stainless steel shell options
- Meets current IEC 61076-2-101 specifications



3-Pole: 4A, 4-Pole: 4A, 5-Pole: 4A / 300VDC
2, 3, 4, 5, 6 Conductor 18 & 22 AWG U.S. AC Color Code

DC DIN Pin Configurations & Color Coding

Female Faces



**3-Pole
DC Single Key
Female**

Conductor Color Coding

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



**4-Pole
DC Single Key
Female**

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



**5-Pole
DC Single Key
Female**

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

Male Faces



**3-Pole
DC Single Key
Male**

Conductor Color Coding

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



**4-Pole
DC Single Key
Male**

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



**5-Pole
DC Single Key
Male**

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

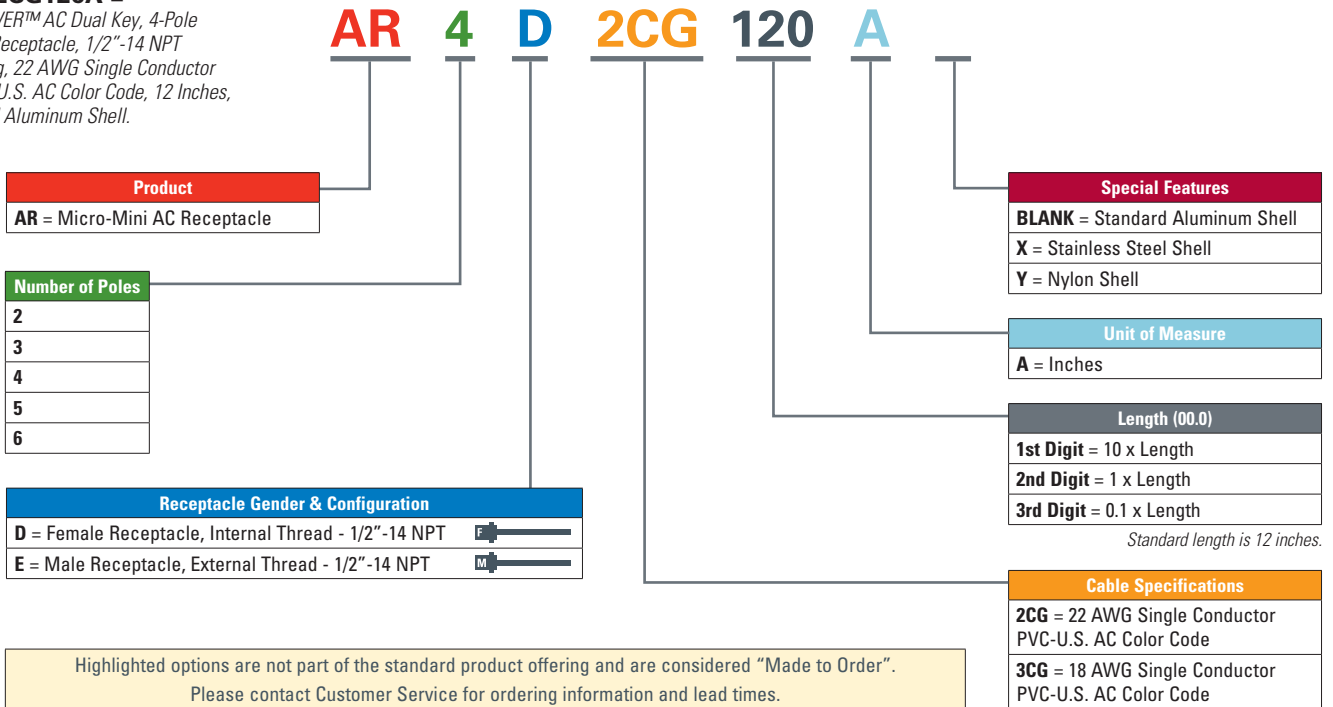
Micro-Mini Receptacles

Micro-Mini AC Dual Key Receptacle Catalog Number Matrix

Sample Number:

AR4D2CG120A =

LynxPOWER™ AC Dual Key, 4-Pole
Female Receptacle, 1/2"-14 NPT
Mounting, 22 AWG Single Conductor
AWM - U.S. AC Color Code, 12 Inches,
Standard Aluminum Shell.

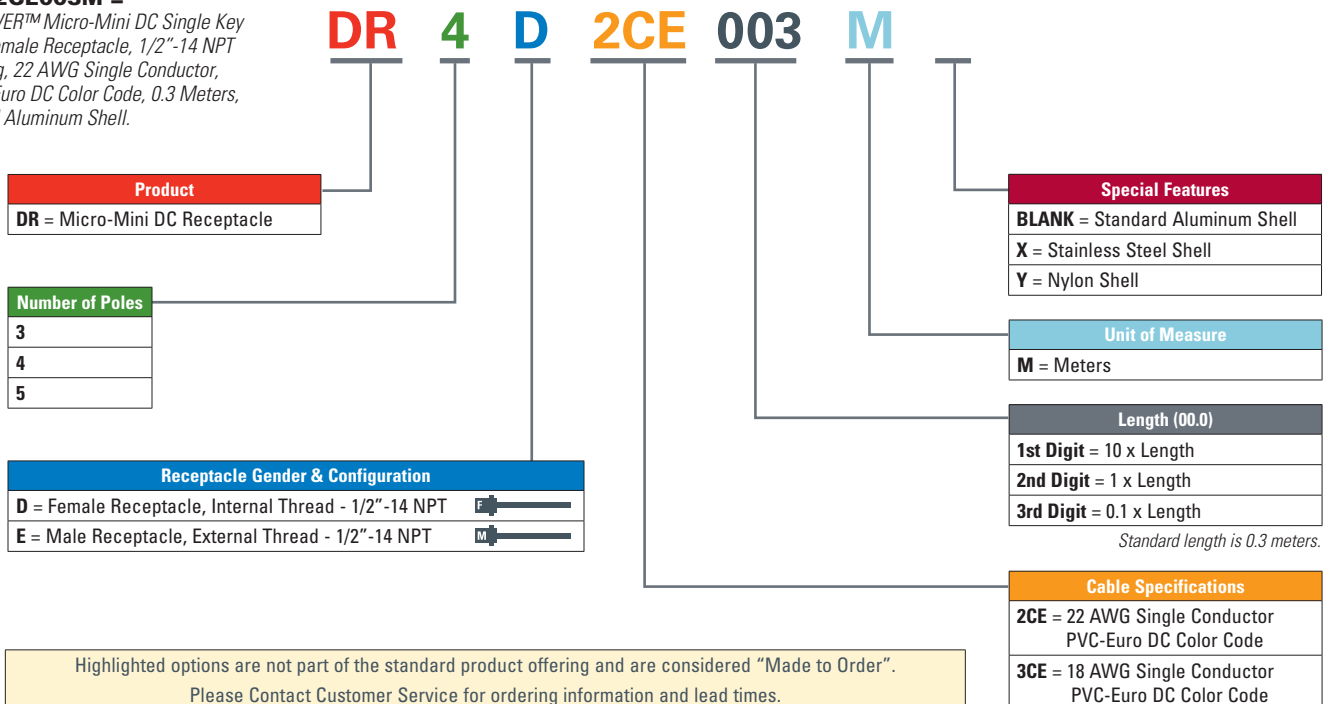


Micro-Mini DC Single Key Receptacle Catalog Number Matrix

Sample Number:

DR4D2CE003M =

LynxPOWER™ Micro-Mini DC Single Key
4-Pole Female Receptacle, 1/2"-14 NPT
Mounting, 22 AWG Single Conductor,
AWM - Euro DC Color Code, 0.3 Meters,
Standard Aluminum Shell.



Micro-Mini Tees & Accessories

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 drops.
- Compact body reduces the overall connectivity footprint.
- Flexible gender configurations allow the user to customize the product to fit their application.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963



AT3RC3R
AC Dual Key
Male-Female-Female Tee

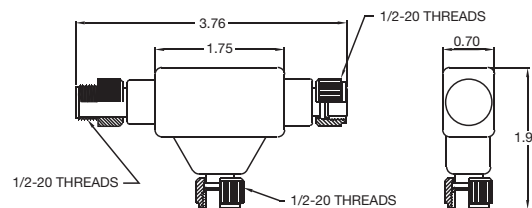


DT4RC3R
DC Single Key
Male-Female-Female Tee

Micro-Mini AC Dual Key & DC Single Tees

Micro-Mini AC Dual Key Tapping Tee

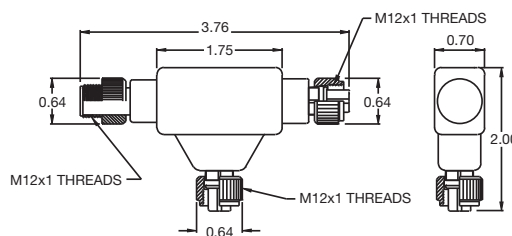
- Standard and low profile configurations
- 300V 105°C
- Epoxy coated zinc die cast hardware
- Meets current SAE #H1738-2 specifications
- Vibration-resistant ratchet design (die cast coupler)



2-Pole, 3-Pole, 4-Pole, 5-Pole: 5A/300V
2, 3, 4, 5 Conductor 18 AWG

Micro-Mini DC Single Key Tapping Tees

- 300V 105°C
- Black epoxy coated hardware
- Meets current SAE #H1738-2 specifications



3-Pole, 4-Pole, 5-Pole: 5A/300V
3, 4, 5 Conductor 18 AWG

Dual Key AC Pin Configurations & Color Coding

Female Faces



2-Pole
Dual Key AC
Female



3-Pole
Dual Key AC
Female



4-Pole
Dual Key AC
Female



5-Pole
Dual Key AC
Female

Male Faces



2-Pole
Dual Key AC
Male



3-Pole
Dual Key AC
Male



4-Pole
Dual Key AC
Male



5-Pole
Dual Key AC
Male

Conductor Color Coding

Standard
1. BRN
2. BLU

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. RED/BLK

Single Key DC Pin Configurations & Color Coding

Female Faces



3-Pole
DC Single Key
Female



4-Pole
DC Single Key
Female



5-Pole
DC Single Key
Female

Male Faces



3-Pole
DC Single Key
Male



4-Pole
DC Single Key
Male



5-Pole
DC Single Key
Male

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

Euro DC
1. BRN
2. WHT
3. BLU
4. BLK
5. GRN

Micro-Mini Tees & Accessories

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 and beverage applications.
- Easy to use set screw terminals provide secure conductor to contact termination.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

Testing & Code Compliance

- UL recognized, cURus File No. E169897



AF4C1
Female AC
Field Attachable



AF4B1
Male AC
Field Attachable



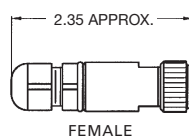
DF4C1
Female DC
Field Attachable

Micro-Mini AC Dual Key Field Attachables

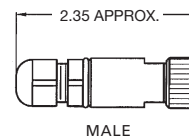
Mico-Mini AC Dual Key Field Attachable

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

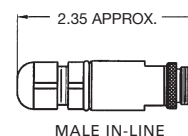
- Female, male and male in-line versions
- Crimp style contact design
- Meets current SAE #H1738-2 specifications



FEMALE



MALE



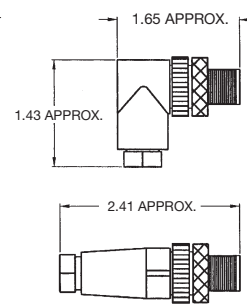
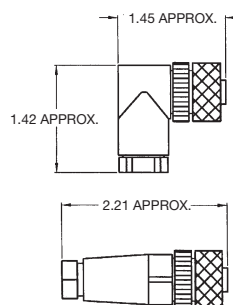
MALE IN-LINE



Micro-Mini DC Single Key Field Attachable

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



Dual Key AC Pin Configurations & Color Coding

Female Faces



2-Pole
Dual Key AC
Female



3-Pole
Dual Key AC
Female



4-Pole
Dual Key AC
Female



5-Pole
Dual Key AC
Female

Male Faces



2-Pole
Dual Key AC
Male



3-Pole
Dual Key AC
Male



4-Pole
Dual Key AC
Male



5-Pole
Dual Key AC
Male

Conductor Color Coding

Standard
1. BRN
2. BLU

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. RED/BLK

Single Key DC Pin Configurations & Color Coding

Female Faces



4-Pole
DC Single Key
Female



5-Pole
DC Single Key
Female

Male Faces



4-Pole
DC Single Key
Male



5-Pole
DC Single Key
Male

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

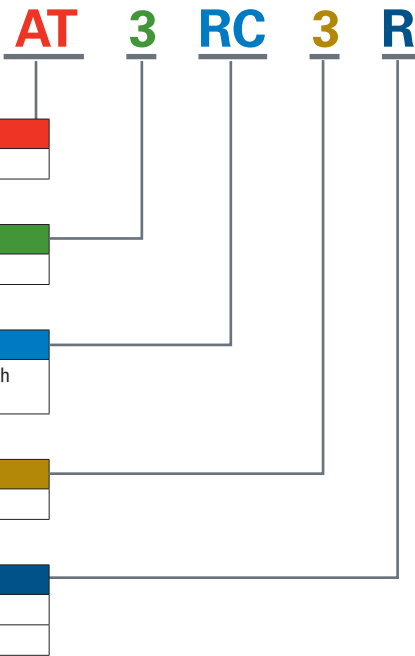
Micro-Mini Tees & Accessories

Micro-Mini AC Dual Key Tee Catalog Number Matrix

Sample Number:

AT3RC3R =

LynxPOWER™ Micro-Mini AC
Dual Key 3-Pole Male to Female
Tee with Female Drop Right Key,
Standard Zinc Alloy Coupler.



Product
AT = Micro-Mini AC Tee

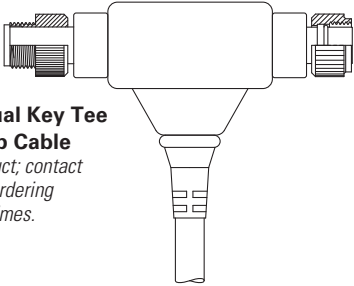
Number of Poles
3 = 3, Style I

Gender & Configuration
RC = Male In-Line to Female with Female Drop

Wire Gauge
3 = 18 AWG

Drop Key Position
L = Key Toward Male
R = Key Toward Female

Special Features
BLANK = Standard Zinc Alloy Coupler
X = Stainless Steel Coupler
Y = Nylon Coupler



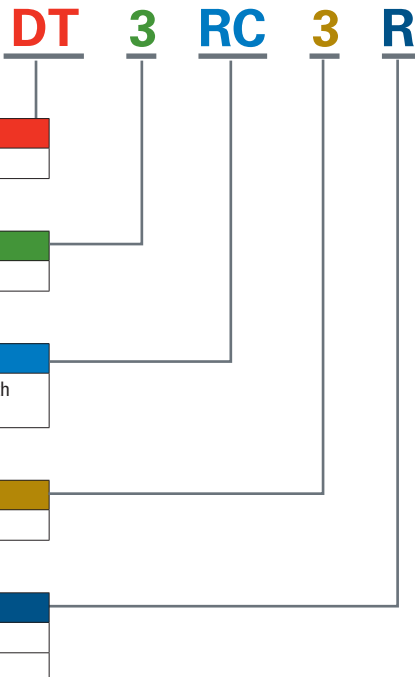
Micro-Mini AC Dual Key Tee with Molded Drop Cable
"Made to Order" product; contact Customer Service for ordering information and lead times.

Micro-Mini DC Single Key Tees Catalog Number Matrix

Sample Number:

DT3RC3R =

LynxPOWER™ Micro-Mini DC
Single Key 3-Pole Male to Female
Tee with Female Drop Right Key,
Standard Zinc Alloy Coupler.



Product
DT = Micro-Mini DC Tee

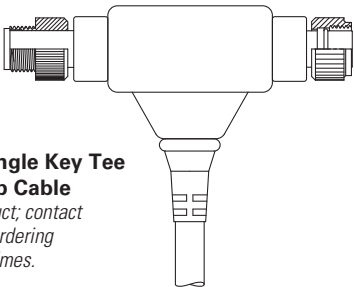
Number of Poles
3 = 3, Style I

Gender & Configuration
RC = Male In-Line to Female with Female Drop

Wire Gauge
3 = 18 AWG

Drop Key Position
L = Key toward male
R = Key toward female

Special Features
BLANK = Standard Zinc Alloy Coupler
X = Stainless Steel Coupler
Y = Nylon Coupler



Micro-Mini DC Single Key Tee with Molded Drop Cable
"Made to Order" product; contact Customer Service for ordering information and lead times.

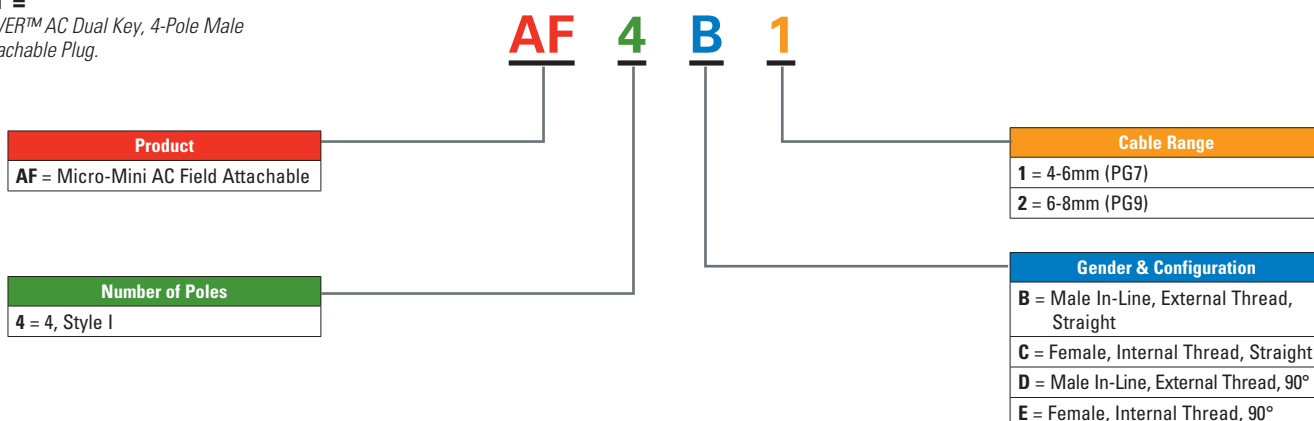
Micro-Mini Tees & Accessories

Micro-Mini AC Dual Key Attachables Catalog Number Matrix

Sample Number:

AF4B1 =

LynxPOWER™ AC Dual Key, 4-Pole Male
Field Attachable Plug.

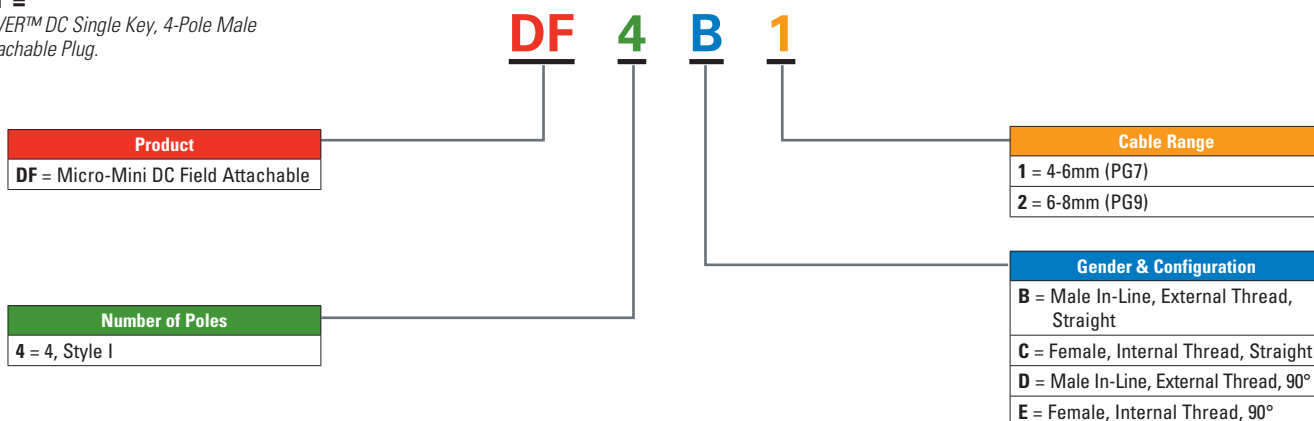


Micro-Mini DC Single Key Attachables Catalog Number Matrix

Sample Number:

DF4B1 =

LynxPOWER™ DC Single Key, 4-Pole Male
Field Attachable Plug.



Micro-Mini Accessories

Micro-Mini AC Dual Key Caps

Catalog Number	Description
AMC	Cap for Micro-Mini AC Dual Key, Male, Internal Thread
AFC	Cap for Micro-Mini AC Dual Key, Female, External Thread

Micro-Mini DC Single Key Caps

Catalog Number	Description
DMC	Cap for Micro-Mini AC Single Key, Male, Internal Thread
DFC	Cap for Micro-Mini AC Single Key, Female, External Thread



Micro-Mini 4-Port Plex Boxes

Features

- Allow for consolidation of signal into one cable, reducing the number of cables needed.
- PNP wiring configuration with LED indicator lights.
- 4-port and 8-port output options standard.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

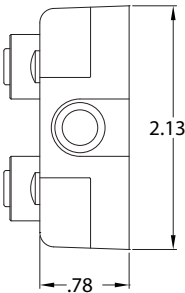
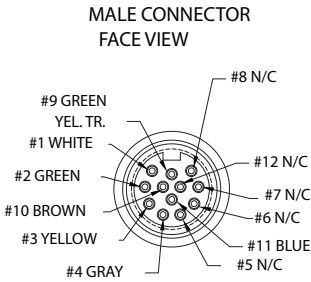
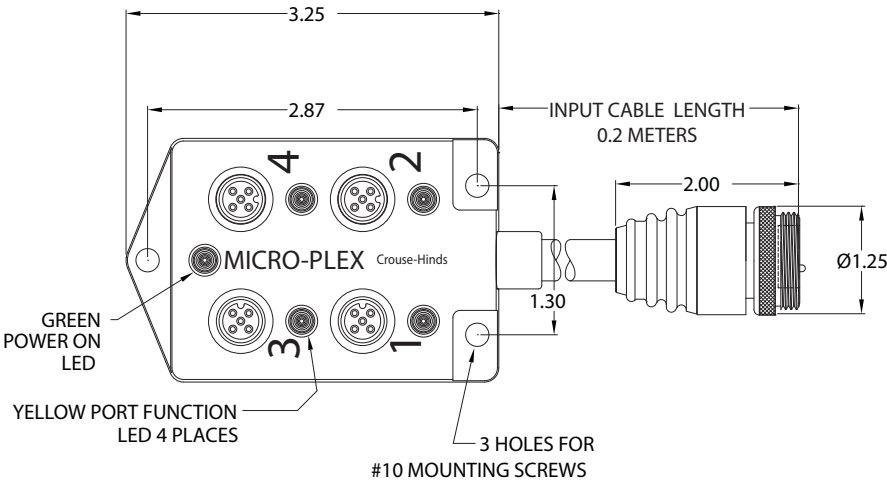
Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963

MMDT4F4A002ML
DC Single Key
4-Port Plex Box

Male Input Port

Catalog Number	Number of Ports	Output Port Gender	Output Port # of Poles	Wiring Config.	Input Port Gender	Input Port # of Poles	Voltage
MMDT4F4A002ML	4	Female	4	Parallel	Male	12	300VDC
MMDT4F4C002ML	4	Female	4	PNP	Male	12	10-30VDC



Single Key DC Pin Configurations & Color Coding

Female Faces

4-Pole DC Single Key Female

Male Faces

4-Pole DC Single Key Male

Conductor Color Coding

Euro DC

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

Micro-Mini 8-Port Plex Boxes

Features

- Allow for consolidation of signal into one cable, reducing the number of cables needed.
- PNP wiring configuration with LED indicator lights.
- 4-port and 8-port output options standard.

Certifications

- NEMA 1, 3, 4, 6P and 13
- IEC IP68

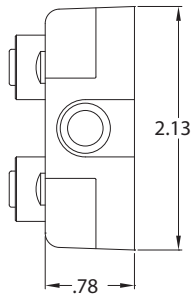
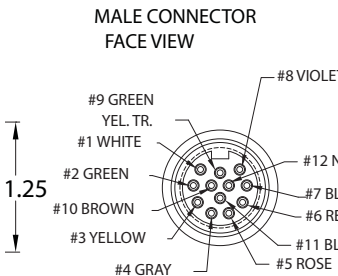
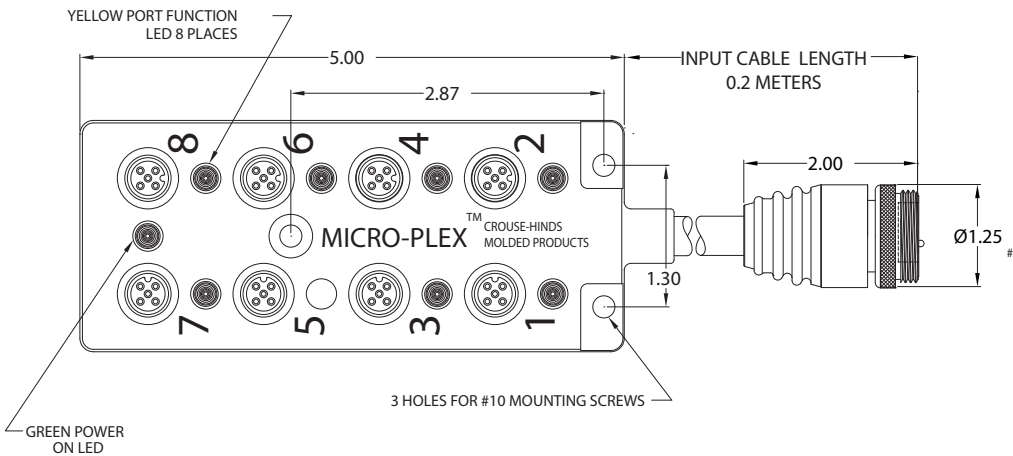
Testing & Code Compliance

- UL recognized, cURus File No. E169897
- CSA certified File No. LR13963

MMDT8F4A002ML
DC Single Key
8-Port Plex Box

Male Input Port

Catalog Number	Number of Ports	Output Port Gender	Output Port # of Poles	Wiring Config.	Input Port Gender	Input Port # of Poles	Voltage
MMDT8F4A002ML	8	Female	4	Parallel	Male	12	300VDC
MMDT8F4C002ML	8	Female	4	PNP	Male	12	10-30VDC



Single Key DC Pin Configurations & Color Coding

Female Faces



4-Pole DC Single Key Female

Male Faces



4-Pole DC Single Key Male

Conductor Color Coding

Euro DC

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

Appendix

Cable Selector Guide

Cable jacket selector guide

Cable Characteristic	Cable Jacket Type	Product Line	Voltage Rating	Typical Application
STOOW	PVC	Mini-Line	600	Material Handling
SOOW	Rubber	Mini-Line	600	Wash Down
SEOW	Thermo-plastic Elastomer	Mini-Line	600	Manufacturing Process
SJTOOW	PVC ( AWM Style 2661)	Micro-Mini	300	Material Handling
SJEOW	Thermo-plastic Elastomer ( AWM Style 20626)	Micro-Mini	300	Manufacturing Process

Cable Nomenclature

S	Service Grade (<i>also means extra hard service when not followed by J, V, P</i>)
J	Junior Cable Grade (<i>rated for 300V for Hard Service</i>)
T	Thermo-plastic Material PVC
E	Thermoplastic Elastomer Material (<i>UL/ NEC only</i>)
O	Oil-Resistant Cable Jacket
OO	Oil-Resistant Cable and Individual Conductors Jackets
W	Weather (<i>Outdoors</i>) Resistant

	PVC (STOOW & AWM)	CPE (SOOW & SJTOOW)	TPE (SEOW & SJEOW)
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 (<i>Gas, Kerosene, etc.</i>)	Poor	Excellent	Excellent
Aromatic Hydrocarbons Resistance (<i>Benzol, Toluol, etc.</i>)	Poor - Fair	Good - Excellent	Excellent
Halogenated Hydrocarbons Resistance (<i>Degreaser Solvents</i>)	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.

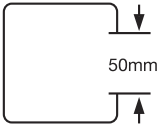
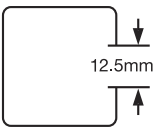
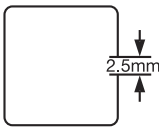
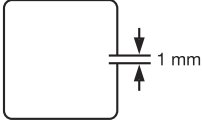
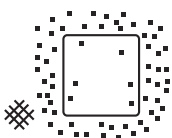
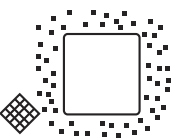
Protection from	Device Locations		
	Indoors	Indoors or outdoors	Outdoors with external mechanisms
Limited amounts of falling dirt	NEMA Type 1		
Limited amounts of falling dirt and dripping water	NEMA Type 2		
Rain, sleet, falling dirt, windblown dust, damage from ice formation		NEMA Type 3	
Rain, sleet, 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 <i>(commonly referred to as explosionproof)</i>		
Class I, Division 1, Groups A, B, C or D hazardous locations (as defined by NEC®, NFPA 70)	NEMA Type 8 <i>(commonly referred to as oil-immersed)</i>		
Class II, Division 1, Groups E, F and G hazardous locations (as defined by NEC®, NFPA 70)	NEMA Type 9 <i>(commonly referred to as dust-ignition-proof)</i>		
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		

Protection Codes

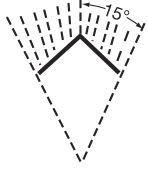
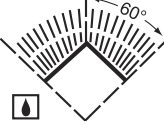
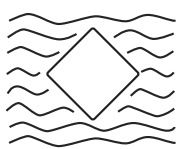
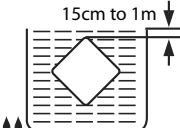
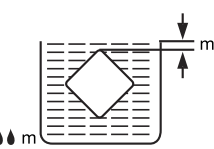
IP (Ingress Protection) Code Symbols

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 Solid Objects

1	Protected against solid objects greater than 50 mm	
2	Protected against solid objects greater than 12.5 mm	
3	Protected against solid objects greater than 2.5 mm	
4	Protected against solid objects greater than 1 mm	
5	Dust protection	
6	Dust tight	

2nd Digit - Protection From Moisture

1	Protected against vertically dripping water	
2	Protected against dripping water when tilted up to 15°	
3	Protected against spraying water	
4	Protected against splashing water	
5	Protected against jetting water	
6	Protected against powerfully jetting water	
7	Protected against the temporary effects of immersion	
8	Protected against continuous submersion	

Example: **IP 54**



(5) Dust protection

(4) Offers protected against splashing water



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