

|                                         |                                                                            |           |
|-----------------------------------------|----------------------------------------------------------------------------|-----------|
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|                                         | Overview . . . . .                                                         | page 8-3  |
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# Connection Systems

## Quick Selection Guide

|                         |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                    |                                                                                                                                                                                                                                |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         |                                                                                                                                                                                      |                                                                                                                                   |                                                                                                                                             |
|                         | <b>Female Cordsets</b>                                                                                                                                                                                                                                                | <b>Male Cordsets</b>                                                                                                                                                                                               | <b>Patchcords</b>                                                                                                                                                                                                              |
| <b>Description</b>      | <ul style="list-style-type: none"> <li>Cable with integral female connector on one end</li> </ul>                                                                                                                                                                     | <ul style="list-style-type: none"> <li>Cable with integral male connector on one end</li> </ul>                                                                                                                    | <ul style="list-style-type: none"> <li>Cable with integral connector on each end</li> </ul>                                                                                                                                    |
| <b>Features</b>         | <ul style="list-style-type: none"> <li>Straight or right angle</li> <li>Multiple standard lengths</li> <li>Braided and unbraided</li> <li>Standard and LED versions</li> <li>Female connector provides direct interface to sensors and other field devices</li> </ul> | <ul style="list-style-type: none"> <li>Straight or right angle</li> <li>Multiple standard lengths</li> <li>Male connector provides interface to distribution boxes or DC micro ArmorBlock DeviceNet I/O</li> </ul> | <ul style="list-style-type: none"> <li>Straight or right angle</li> <li>Multiple standard lengths</li> <li>Direct connection between field devices and distribution boxes or Allen-Bradley ArmorBlock DeviceNet I/O</li> </ul> |
| <b>Available Models</b> | <ul style="list-style-type: none"> <li>Mini ..... 8-4</li> <li>Mini-Plus ..... 8-14</li> <li>DC Micro ..... 8-16</li> <li>AC Micro ..... 8-28</li> <li>Pico ..... 8-34</li> </ul>                                                                                     | <ul style="list-style-type: none"> <li>Mini ..... 8-4</li> <li>DC Micro ..... 8-16</li> <li>AC Micro ..... 8-28</li> </ul>                                                                                         | <ul style="list-style-type: none"> <li>Mini to Mini ..... 8-4</li> <li>Mini-Plus ..... 8-14</li> <li>DC Micro ..... 8-16</li> <li>AC Micro ..... 8-28</li> <li>Pico ..... 8-34</li> <li>M23 ..... 8-44</li> </ul>              |

|                         |                                                                                                                                                                                                         |                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         |                                                                                                                       |                                                                                                               |
|                         | <b>Field Attachable Connectors</b>                                                                                                                                                                      | <b>Accessories</b>                                                                                                                                                                              |
| <b>Description</b>      | <ul style="list-style-type: none"> <li>Terminal Chambers and Insulation Displacement Connectors (IDC)</li> </ul>                                                                                        | <ul style="list-style-type: none"> <li>Sealing caps, coupling adaptors, and other connection systems accessories</li> </ul>                                                                     |
| <b>Features</b>         | <ul style="list-style-type: none"> <li>Screw, solder or insulation displacement connector styles</li> <li>Straight or right angle</li> <li>Multiple sizes for varying cable jacket diameters</li> </ul> | <ul style="list-style-type: none"> <li>Rugged durable construction</li> <li>Versions to interface with male or female connectors</li> <li>Multiple sizes for various connector types</li> </ul> |
| <b>Available Models</b> | <ul style="list-style-type: none"> <li>Mini ..... 8-12</li> <li>DC Micro ..... 8-24</li> <li>AC Micro ..... 8-32</li> <li>Pico ..... 8-36</li> <li>M23 ..... 8-44</li> </ul>                            | <ul style="list-style-type: none"> <li>Sealing caps ..... 12-1</li> </ul>                                                                                                                       |

For information on additional On-Machine™ Connectivity Products, see the *On-Machine Connectivity* catalog or visit [www.ab.com/catalogs](http://www.ab.com/catalogs).



### Description

Rockwell Automation offers a wide variety of connection products for interfacing field devices to I/O, junction boxes, PLCs, etc. Connection systems products are made of durable materials and are designed to handle rough industrial environments.

Featuring industry standard 2-, 3-, 4-, 5-, or 6-pin overmolded connectors, Rockwell Automation quick-disconnect cables provide secure connection for proximity sensors, limit switches and photoelectric sensors. Connectors can be straight or right-angled and are

physically keyed to reduce wiring mishaps. Rockwell Automation cabling options include:

- Cordsets: Cable with integral male or female connector at one end and flying leads at the other
- Patchcords: Cable with integral connector at each end (one male, one female)

Available in a variety of cable jackets, lengths, and connector styles, Rockwell Automation cordsets can be configured to fit the needed application.

### Cordsets & Patchcords:

|                 |           |
|-----------------|-----------|
| Mini Style      | page 8-4  |
| Mini-Plus Style | page 8-14 |
| DC Micro Style  | page 8-16 |
| AC Micro Style  | page 8-28 |
| Pico Style      | page 8-34 |
| M23 Style       | page 8-44 |

### Terminal Chambers

|          |           |
|----------|-----------|
| Mini     | page 8-12 |
| DC Micro | page 8-24 |
| AC Micro | page 8-32 |
| Pico     | page 8-36 |

### Combination Connectors

|                          |           |
|--------------------------|-----------|
| Mini to Micro Patchcords | page 8-40 |
| Pico to Micro Patchcords | page 8-42 |

### Accessories

|              |            |
|--------------|------------|
| Sealing Caps | page 12-10 |
|--------------|------------|

# Mini Style



4-Pin Straight Mini Cordset

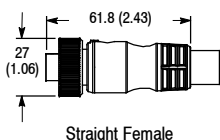
## Features

- Heavy duty STOOV-A 16 AWG cable
- PVC jacket offers good oil and chemical resistance
- 2-, 3-, 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

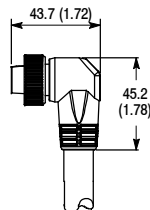
## Specifications

|                               |                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                |
| <b>Mechanical</b>             |                                                                                                                                |
| Coupling Nut                  | Epoxy-coated zinc                                                                                                              |
| Housing                       | Molded oil-resistant TPE                                                                                                       |
| Contacts                      | Gold-plated brass                                                                                                              |
| Cable                         | Oil-resistant yellow PVC jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, STOOV-A                        |
| Bend Radius                   | 10x diameter, min.                                                                                                             |
| Cable Diameter                | 2/c = 10 mm (0.40 in.)<br>3/c = 10 mm (0.40 in.)<br>4/c = 11 mm (0.43 in.)<br>5/c = 13 mm (0.51 in.)<br>6/c = 14 mm (0.55 in.) |
| <b>Electrical</b>             |                                                                                                                                |
| Cable Rating                  | UL STOOV VW-1 105C 600V, CSA ST 105C 600V FT2, UV oil and water resistant                                                      |
| Assembly Rating               | 2-pin = 600V, 13 A<br>3-pin = 600V, 13 A<br>4-pin = 600V, 10 A<br>5-pin = 600V, 8 A<br>6-pin = 600V, 8 A                       |
| <b>Environmental</b>          |                                                                                                                                |
| Enclosure Type Rating         | NEMA 4, 6P, 12, 13; IP67                                                                                                       |
| Operating Temperature [C (F)] | -20...+105° (-4...+221°)                                                                                                       |

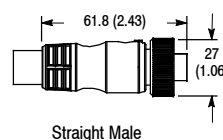
## Approximate Dimensions [mm (in.)]



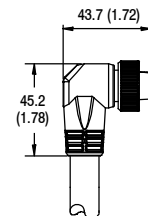
Straight Female



Right Angle Female

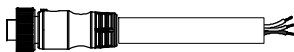


Straight Male



Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset

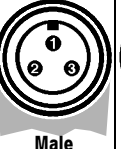
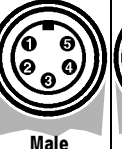


Example of Patchcord

## Mating Components & Accessories

| Description       | Cat. No.   | Page  |
|-------------------|------------|-------|
| Coupling Adaptors | 889A-NADPT | 12-11 |

## Pinout and Color Code

| Color Code | Face View Pinout                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|            | 2-Pin                                                                             |                                                                                   | 3-Pin                                                                             |                                                                                   | 4-Pin                                                                             |                                                                                   | 5-Pin                                                                               |                                                                                     | 6-Pin                                                                               |                                                                                     |
|            |  |  |  |  |  |  |  |  |  |  |
| A (US)     | 1 White<br>2 Black                                                                |                                                                                   | 1 Green<br>2 Black<br>3 White                                                     |                                                                                   | 1 Black<br>2 White                                                                | 3 Red<br>4 Green                                                                  | 1 White<br>2 Red<br>3 Green                                                         | 4 Orange<br>5 Black                                                                 | 1 White<br>2 Red<br>3 Green                                                         | 4 Orange<br>5 Black<br>6 Blue                                                       |
| B (Auto)   | —                                                                                 |                                                                                   | 1 Green<br>2 Red/Black Tr<br>3 Red/White Tr                                       |                                                                                   | 1 Red/Black Tr<br>2 Red/White Tr                                                  | 3 Red<br>4 Green                                                                  | 1 Red/White Tr<br>2 Red<br>3 Green<br>4 Red/Yellow Tr<br>5 Red/Black Tr             |                                                                                     | —                                                                                   |                                                                                     |
| C (IEC)    | —                                                                                 |                                                                                   | —                                                                                 |                                                                                   | 1 Black<br>2 Blue                                                                 | 3 Brown<br>4 White                                                                | 1 Black<br>2 Blue<br>3 Orange                                                       | 4 Brown<br>5 White                                                                  | 1 Blue<br>2 Orange<br>3 Red                                                         | 4 White<br>5 Brown<br>6 Black                                                       |

## Product Selection

### Cordsets

| Pin Count | Assembly Rating | Color Code | Cat. No.               |                        |                        |                        |
|-----------|-----------------|------------|------------------------|------------------------|------------------------|------------------------|
|           |                 |            | Straight Female        | Right Angle Female     | Straight Male          | Right Angle Male       |
| 2-Pin     | 600V 13 A       | A          | 889N-F2AFC- <b>0</b> F | 889N-R2AFC- <b>0</b> F | 889N-U2AFC- <b>0</b> F | 889N-V2AFC- <b>0</b> F |
| 3-Pin     |                 | A          | <b>889N-F3AFC-0</b> F  | <b>889N-R3AFC-0</b> F  | <b>889N-U3AFC-0</b> F  | 889N-V3AFC- <b>0</b> F |
|           |                 | B          | 889N-F3AFA- <b>0</b> F | 889N-R3AFA- <b>0</b> F | 889N-U3AFA-F           | 889N-V3AFA- <b>0</b> F |
| 4-Pin     | 600V 10 A       | A          | <b>889N-F4AFC-0</b> F  | <b>889N-R4AFC-0</b> F  | 889N-U4AFC- <b>0</b> F | 889N-V4AFC- <b>0</b> F |
|           |                 | B          | 889N-F4AFA- <b>0</b> F | 889N-R4AFA- <b>0</b> F | 889N-U4AFA- <b>0</b> F | 889N-V4AFA- <b>0</b> F |
|           |                 | C          | <b>889N-F4AF-0</b> F   | <b>889N-R4AF-0</b> F   | 889N-U4AF- <b>0</b> F  | 889N-V4AF- <b>0</b> F  |
| 5-Pin     | 600V 8 A        | A          | <b>889N-F5AFC-0</b> F  | 889N-R5AFC- <b>0</b> F | 889N-U5AFC- <b>0</b> F | 889N-V5AFC- <b>0</b> F |
|           |                 | B          | 889N-F5AFA- <b>0</b> F | 889N-R5AFA- <b>0</b> F | 889N-U5AFA- <b>0</b> F | 889N-V5AFA- <b>0</b> F |
|           |                 | C          | <b>889N-F5AF-0</b> F   | <b>889N-R5AF-0</b> F   | 889N-U5AF- <b>0</b> F  | 889N-V5AF- <b>0</b> F  |
|           |                 | C          | 889N-F6AFC- <b>0</b> F | 889N-R6AFC- <b>0</b> F | 889N-U6AFC- <b>0</b> F | 889N-V6AFC- <b>0</b> F |
| 6-Pin     |                 | A          | 889N-F6AF- <b>0</b> F  | 889N-R6AF- <b>0</b> F  | 889N-U6AF- <b>0</b> F  | 889N-V6AF- <b>0</b> F  |

### Patchcords

| Pin Count | Assembly Rating        | Cat. No.                         |                                     |                                     |                                        |
|-----------|------------------------|----------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
|           |                        | Straight Female<br>Straight Male | Straight Female Right<br>Angle Male | Right Angle Female<br>Straight Male | Right Angle Female<br>Right Angle Male |
| 2-Pin     | 16 AWG<br>600V<br>13 A | 889N-F2AFNU- <b>0</b> F          | 889N-F2AFNV- <b>0</b> F             | 889N-R2AFNU- <b>0</b> F             | 889N-R2AFNV- <b>0</b> F                |
| 3-Pin     |                        | <b>889N-F3AFNU-0</b> F           | 889N-F3AFNV- <b>0</b> F             | 889N-R3AFNU- <b>0</b> F             | 889N-R3AFNV- <b>0</b> F                |
| 4-Pin     | 16 AWG<br>600V<br>10 A | <b>889N-F4AFNU-0</b> F           | 889N-F4AFNV- <b>0</b> F             | 889N-R4AFNU- <b>0</b> F             | 889N-R4AFNV- <b>0</b> F                |
| 5-Pin     | 16 AWG<br>600V<br>8 A  | <b>889N-F5AFNU-0</b> F           | 889N-F5AFNV- <b>0</b> F             | 889N-R5AFNU- <b>0</b> F             | 889N-R5AFNV- <b>0</b> F                |
| 6-Pin     |                        | 889N-F6AFNU- <b>0</b> F          | 889N-F6AFNV- <b>0</b> F             | 889N-R6AFNU- <b>0</b> F             | 889N-R6AFNV- <b>0</b> F                |

- ① Replace symbol with 6 (6 ft), 12 (12 ft), or 20 (20 ft) for standard cable lengths.
- ② Replace symbol with 3 (3 ft), 6 (6 ft), 12 (12 ft), or 20 (20 ft) for standard cable lengths.

**Note:** Stainless steel connector versions may be ordered by adding an "S" to the cat. no., e.g., 889NS-F3AFC-**0**F.

Mini Style



4-Pin Straight Mini Cordset

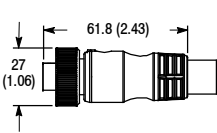
Features

- General purpose 18 AWG cable
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- 2-, 3-, 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

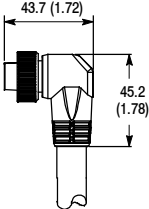
Specifications

|                               |                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                              |
| <b>Mechanical</b>             |                                                                                                                              |
| Coupling Nut                  | Epoxy-coated zinc                                                                                                            |
| Housing                       | Molded oil-resistant TPE                                                                                                     |
| Contacts                      | Gold-plated brass                                                                                                            |
| Cable                         | Oil-resistant yellow PVC jacket, 18 AWG stranded copper, 300V; UL Recognized and CSA Certified, ST00W-A                      |
| Bend Radius                   | 10x diameter, min.                                                                                                           |
| Cable Diameter                | 2/c = 6 mm (0.24 in.)<br>3/c = 6 mm (0.25 in.);<br>4/c = 7 mm (0.27 in.);<br>5/c = 8 mm (0.31 in.);<br>6/c = 8 mm (0.32 in.) |
| <b>Electrical</b>             |                                                                                                                              |
| Cable Rating                  | UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant                                  |
| Assembly Rating               | 2-pin = 300V, 10 A<br>3-pin = 300V, 10 A<br>4-pin = 300V, 7 A<br>5-pin = 300V, 5.6 A<br>6-pin = 300V, 5.6 A                  |
| <b>Environmental</b>          |                                                                                                                              |
| Enclosure Type Rating         | NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown                                                                                  |
| Operating Temperature [C (F)] | -20...+105° (-4...+221°)                                                                                                     |

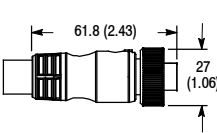
Approximate Dimensions [mm (in.)]



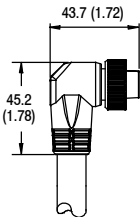
Straight Female



Right Angle Female

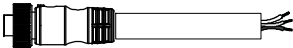


Straight Male



Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset



Example of Patchcord

Mating Components & Accessories

| Description      | Cat. No.   | Page  |
|------------------|------------|-------|
| Coupling Adaptor | 889A-NADPT | 12-11 |

## Pinout and Color Code

| Color Code | Face View Pinout   |      |                                             |      |                                  |                    |                                                                         |                     |                             |                               |
|------------|--------------------|------|---------------------------------------------|------|----------------------------------|--------------------|-------------------------------------------------------------------------|---------------------|-----------------------------|-------------------------------|
|            | 2-Pin              |      | 3-Pin                                       |      | 4-Pin                            |                    | 5-Pin                                                                   |                     | 6-Pin                       |                               |
|            | Female             | Male | Female                                      | Male | Female                           | Male               | Female                                                                  | Male                | Female                      | Male                          |
| A (US)     | 1 White<br>2 Black |      | 1 Green<br>2 Black<br>3 White               |      | 1 Black<br>2 White               | 3 Red<br>4 Green   | 1 White<br>2 Red<br>3 Green                                             | 4 Orange<br>5 Black | 1 White<br>2 Red<br>3 Green | 4 Orange<br>5 Black<br>6 Blue |
| B (Auto)   | —                  |      | 1 Green<br>2 Red/Black Tr<br>3 Red/White Tr |      | 1 Red/Black Tr<br>2 Red/White Tr | 3 Red<br>4 Green   | 1 Red/White Tr<br>2 Red<br>3 Green<br>4 Red/Yellow Tr<br>5 Red/Black Tr |                     | —                           |                               |
| C (IEC)    | —                  |      | —                                           |      | 1 Black<br>2 Blue                | 3 Brown<br>4 White | 1 Black<br>2 Blue<br>3 Grey                                             | 4 Brown<br>5 White  | —                           |                               |

## Product Selection

### Cordsets

| Pin Count | Assembly Rating | Color Code | Cat. No.               |                        |                        |                        |
|-----------|-----------------|------------|------------------------|------------------------|------------------------|------------------------|
|           |                 |            | Straight Female        | Right Angle Female     | Straight Male          | Right Angle Male       |
| 2-Pin     | 300V, 10 A      | A          | 889N-F2AEC- <b>0</b> F | 889N-R2AEC- <b>0</b> F | 889N-U2AEC- <b>0</b> F | 889N-V2AEC- <b>0</b> F |
| 3-Pin     |                 | A          | 889N-F3AEC- <b>0</b> F | 889N-R3AEC- <b>0</b> F | 889N-U3AEC- <b>0</b> F | 889N-V3AEC- <b>0</b> F |
|           |                 | B          | <b>889N-F3AEA-0</b> F  | 889N-R3AEA- <b>0</b> F | 889N-U3AEA- <b>0</b> F | 889N-V3AEA- <b>0</b> F |
| 4-Pin     | 300V, 7 A       | A          | 889N-F4AEC- <b>0</b> F | 889N-R4AEC- <b>0</b> F | 889N-U4AEC- <b>0</b> F | 889N-V4AEC- <b>0</b> F |
|           |                 | B          | 889N-F4AEA- <b>0</b> F | 889N-R4AEA- <b>0</b> F | 889N-U4AEA- <b>0</b> F | 889N-V4AEA- <b>0</b> F |
|           |                 | C          | <b>889N-F4AE-0</b> F   | <b>889N-R4AE-0</b> F   | 889N-U4AE- <b>0</b> F  | 889N-V4AE- <b>0</b> F  |
| 5-Pin     | 300V, 5.6 A     | A          | <b>889N-F5AEC-0</b> F  | 889N-R5AEC- <b>0</b> F | 889N-U5AEC- <b>0</b> F | 889N-V5AEC- <b>0</b> F |
|           |                 | B          | 889N-F5AEA- <b>0</b> F | 889N-R5AEA- <b>0</b> F | 889N-U5AEA- <b>0</b> F | 889N-V5AEA- <b>0</b> F |
|           |                 | C          | <b>889N-F5AE-0</b> F   | <b>889N-R5AE-0</b> F   | 889N-U5AE- <b>0</b> F  | 889N-V5AE- <b>0</b> F  |
| 6-Pin     |                 | A          | 889N-F6AE- <b>0</b> F  | 889N-R6AE- <b>0</b> F  | 889N-U6AE- <b>0</b> F  | 889N-V6AE- <b>0</b> F  |

### Patchcords

| Pin Count | Assembly Rating | Cat. No.                      |                                  |                                  |                                     |
|-----------|-----------------|-------------------------------|----------------------------------|----------------------------------|-------------------------------------|
|           |                 | Straight Female Straight Male | Straight Female Right Angle Male | Right Angle Female Straight Male | Right Angle Female Right Angle Male |
| 2-Pin     | 300V, 10 A      | 889N-F2AENU- <b>0</b> F       | 889N-F2AENV- <b>0</b> F          | 889N-R2AENU- <b>0</b> F          | 889N-R2AENV- <b>0</b> F             |
| 3-Pin     |                 | 889N-F3AENU- <b>0</b> F       | 889N-F3AENV- <b>0</b> F          | 889N-R3AENU- <b>0</b> F          | 889N-R3AENV- <b>0</b> F             |
| 4-Pin     | 300V, 7 A       | 889N-F4AENU- <b>0</b> F       | 889N-F4AENV- <b>0</b> F          | 889N-R4AENU- <b>0</b> F          | 889N-R4AENV- <b>0</b> F             |
| 5-Pin     | 300V, 5.6 A     | 889N-F5AENU- <b>0</b> F       | 889N-F5AENV- <b>0</b> F          | 889N-R5AENU- <b>0</b> F          | 889N-R5AENV- <b>0</b> F             |
| 6-Pin     |                 | 889N-F6AENU- <b>0</b> F       | 889N-F6AENV- <b>0</b> F          | 889N-R6AENU- <b>0</b> F          | 889N-R6AENV- <b>0</b> F             |

- ① Replace symbol with 6 (6 ft), 12 (12 ft), or 20 (20 ft) for standard cable lengths.  
 ② Replace symbol with 3 (3 ft), 6 (6 ft), 12 (12 ft), or 20 (20 ft) for standard cable lengths.

**Note:** Stainless steel connector versions may be ordered by adding an "S" to the cat. no., e.g., 889NS-F3AEC-**0**F.

# Cordsets & Patchcords, Mini Style

16 AWG, ToughLink™ and ToughWeld™

## Mini Style



4-Pin Straight Mini Cordset

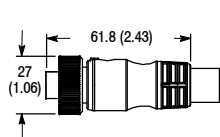
### Features

- Heavy duty 16 AWG cable
- Highly visible yellow ToughLink jacket offers excellent oil and chemical resistance
- ToughWeld jacket offers good oil and chemical resistance and excellent resistance to weld slag
- 3-, 4-, and 5-pin configurations
- Ratcheting coupling nut for vibration resistance

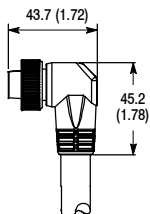
### Specifications

|                               |                                                                                                                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                                                                                                                               |
| <b>Mechanical</b>             |                                                                                                                                                                                                                                               |
| Coupling Nut                  | Epoxy-coated zinc                                                                                                                                                                                                                             |
| Housing                       | Molded oil-resistant TPE                                                                                                                                                                                                                      |
| Contacts                      | Gold-plated brass                                                                                                                                                                                                                             |
| Cable                         | ToughLink: Oil-resistant yellow TPE jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, SEOOW<br>ToughWeld: Oil-resistant yellow CPE thermoset jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, SOOW |
| Bend Radius                   | 10x diameter, min.                                                                                                                                                                                                                            |
| Cable Diameter                | 3/c = 10 mm (0.41 in.);<br>4/c = 11 mm (0.44 in.);<br>5/c = 13 mm (0.52 in.)                                                                                                                                                                  |
| <b>Electrical</b>             |                                                                                                                                                                                                                                               |
| Cable Rating                  | ToughLink: UL SEOOW VW-1 105C -50C 600V water resistant, CSA STOO FT-1 600V;<br>ToughWeld: UL SOOW 105C 600V water resistant, CSA -50C FT-1 600V                                                                                              |
| Assembly Rating               | 3-pin = 600V, 13A; 4-pin = 600V, 10 A; 5-pin = 600V, 8 A                                                                                                                                                                                      |
| <b>Environmental</b>          |                                                                                                                                                                                                                                               |
| Enclosure Type Rating         | NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown                                                                                                                                                                                                   |
| Operating Temperature [C (F)] | ToughLink: -20...+105° (-4...+221°);<br>ToughWeld: -20...+90° (-4...+194°)                                                                                                                                                                    |

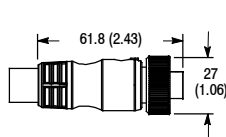
### Approximate Dimensions [mm (in.)]



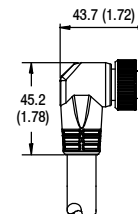
Straight Female



Right Angle Female

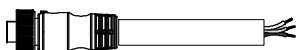


Straight Male

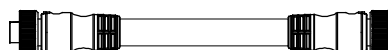


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset



Example of Patchcord

### Mating Components & Accessories

| Description      | Cat. No.   | Page  |
|------------------|------------|-------|
| Coupling Adaptor | 889A-NADPT | 12-11 |

## Cordsets &amp; Patchcords, Mini Style

16 AWG, ToughLink™ and ToughWeld™

## Pinout and Color Code

| Color Code | Face View Pinout              |      |                    |                  |                             |                     |
|------------|-------------------------------|------|--------------------|------------------|-----------------------------|---------------------|
|            | 3-Pin                         |      | 4-Pin              |                  | 5-Pin                       |                     |
|            | Female                        | Male | Female             | Male             | Female                      | Male                |
| A (US)     | 1 Green<br>2 Black<br>3 White |      | 1 Black<br>2 White | 3 Red<br>4 Green | 1 White<br>2 Red<br>3 Green | 4 Orange<br>5 Black |

## Product Selection

Cordsets 

| Pin Count | Material        | Assembly Rating | Color Code | Cat. No.               |                        |                        |                        |
|-----------|-----------------|-----------------|------------|------------------------|------------------------|------------------------|------------------------|
|           |                 |                 |            | Straight Female        | Right Angle Female     | Straight Male          | Right Angle Male       |
| 3-Pin     | ToughLink (TPE) | 600V 13 A       | A          | 889N-F3HFC- <b>0</b> F | 889N-R3HFC- <b>0</b> F | 889N-U3HFC- <b>0</b> F | 889N-V3HFC- <b>0</b> F |
| 4-Pin     |                 | 600V 10 A       |            | 889N-F4HFC- <b>0</b> F | 889N-R4HFC- <b>0</b> F | 889N-U4HFC- <b>0</b> F | 889N-V4HFC- <b>0</b> F |
| 5-Pin     |                 | 600V 8 A        |            | 889N-F5HFC- <b>0</b> F | 889N-R5HFC- <b>0</b> F | 889N-U5HFC- <b>0</b> F | 889N-V5HFC- <b>0</b> F |
| 3-Pin     | ToughWeld (CPE) | 600V 13 A       |            | 889N-F3WFC- <b>0</b> F | 889N-R3WFC- <b>0</b> F | 889N-U3WFC- <b>0</b> F | 889N-V3WFC- <b>0</b> F |
| 4-Pin     |                 | 600V 10 A       |            | 889N-F4WFC- <b>0</b> F | 889N-R4WFC- <b>0</b> F | 889N-U4WFC- <b>0</b> F | 889N-V4WFC- <b>0</b> F |
| 5-Pin     |                 | 600V 8 A        |            | 889N-F5WFC- <b>0</b> F | 889N-R5WFC- <b>0</b> F | 889N-U5WFC- <b>0</b> F | 889N-V5WFC- <b>0</b> F |

Patchcords 

| Pin Count | Material        | Assembly Rating | Cat. No.                         |                                     |                                     |                                        |
|-----------|-----------------|-----------------|----------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
|           |                 |                 | Straight Female<br>Straight Male | Straight Female<br>Right Angle Male | Right Angle Female<br>Straight Male | Right Angle Female<br>Right Angle Male |
| 3-Pin     | ToughLink (TPE) | 600V 13A        | 889N-F3HFNU- <b>0</b> F          | 889N-F3HFNV- <b>0</b> F             | 889N-R3HFNU- <b>0</b> F             | 889N-R3HFNV- <b>0</b> F                |
| 4-Pin     |                 | 600V 10 A       | 889N-F4HFNU- <b>0</b> F          | 889N-F4HFNV- <b>0</b> F             | 889N-R4HFNU- <b>0</b> F             | 889N-R4HFNV- <b>0</b> F                |
| 5-Pin     |                 | 600V 8 A        | 889N-F5HFNU- <b>0</b> F          | 889N-F5HFNV- <b>0</b> F             | 889N-R5HFNU- <b>0</b> F             | 889N-R5HFNV- <b>0</b> F                |
| 3-Pin     | ToughWeld (CPE) | 600V 13 A       | 889N-F3WFNU- <b>0</b> F          | 889N-F3WFNV- <b>0</b> F             | 889N-R3WFNU- <b>0</b> F             | 889N-R3WFNV- <b>0</b> F                |
| 4-Pin     |                 | 600V 10 A       | 889N-F4WFNU- <b>0</b> F          | 889N-F4WFNV- <b>0</b> F             | 889N-R4WFNU- <b>0</b> F             | 889N-R4WFNV- <b>0</b> F                |
| 5-Pin     |                 | 600V 8 A        | 889N-F5WFNU- <b>0</b> F          | 889N-F5WFNV- <b>0</b> F             | 889N-R5WFNU- <b>0</b> F             | 889N-R5WFNV- <b>0</b> F                |

❶ Replace symbol with 6 (6 ft), 12 (12 ft), or 20 (20 ft) for standard cable lengths.

❷ Replace symbol with 3 (3 ft), 6 (6 ft), 12 (12 ft), or 20 (20 ft) for standard cable lengths.

**Note:** Stainless steel connector versions may be ordered by adding an "S" to the cat. no., e.g., 889NS-F3HFC-**0**F.

## Cordsets &amp; Patchcords, Mini Style

18 AWG, TPE and ToughWeld™

## Mini Style



4-Pin Straight Mini Cordset

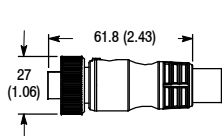
## Features

- General purpose 18 AWG cable
- Highly visible yellow ToughLink jacket offers excellent oil and chemical resistance
- ToughWeld jacket offers good oil and chemical resistance and excellent resistance to weld slag
- 3-, 4-, and 5-pin configurations
- Ratcheting coupling nut for vibration resistance

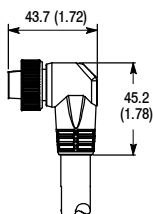
## Specifications

|                               |                                                                                                                                                                         |                                                                                              |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                                                         |                                                                                              |
| <b>Mechanical</b>             |                                                                                                                                                                         |                                                                                              |
| Coupling Nut                  | Epoxy-coated zinc                                                                                                                                                       |                                                                                              |
| Housing                       | Molded oil-resistant TPE                                                                                                                                                |                                                                                              |
| Contacts                      | Gold-plated brass                                                                                                                                                       |                                                                                              |
| Cable                         | Oil-resistant yellow TPE or CPE jacket, 18 AWG stranded copper, 300V;<br>UL Recognized and CSA Certified, ST00W-A                                                       |                                                                                              |
| Bend Radius                   | 10x diameter, min.                                                                                                                                                      |                                                                                              |
| Cable Diameter                | <u>TPE</u><br>3/c = 6 mm (0.25 in.);<br>4/c = 7 mm (0.27 in.);<br>5/c = 8 mm (0.32 in.);                                                                                | <u>ToughWeld</u><br>3/c = 8 mm (0.32 in.)<br>4/c = 9 mm (0.36 in.)<br>5/c = 10 mm (0.38 in.) |
| <b>Electrical</b>             |                                                                                                                                                                         |                                                                                              |
| Cable Rating                  | TPE: UL AWM style 20327 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1, UV oil and water resistant<br>ToughWeld: UL SJOOW 105C 300V water resistant, CSA -50C FT-1 300V |                                                                                              |
| Assembly Rating               | 3-pin = 300V, 10 A<br>4-pin = 300V, 7 A<br>5-pin = 300V, 5.6 A                                                                                                          |                                                                                              |
| <b>Environmental</b>          |                                                                                                                                                                         |                                                                                              |
| Enclosure Type Rating         | NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown                                                                                                                             |                                                                                              |
| Operating Temperature [C (F)] | -20...+105° (-4...+221°)                                                                                                                                                |                                                                                              |

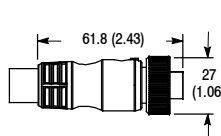
## Approximate Dimensions [mm (in.)]



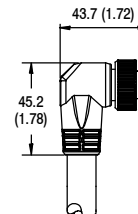
Straight Female



Right Angle Female

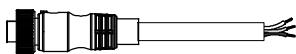


Straight Male

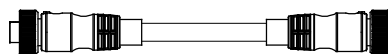


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset



Example of Patchcord

## Mating Components &amp; Accessories

| Description      | Cat. No.   | Page  |
|------------------|------------|-------|
| Coupling Adaptor | 889A-NADPT | 12-11 |

### Pinout and Color Code

| Color Code | Face View Pinout                            |      |                                  |                  |                                    |                                   |
|------------|---------------------------------------------|------|----------------------------------|------------------|------------------------------------|-----------------------------------|
|            | 3-Pin                                       |      | 4-Pin                            |                  | 5-Pin                              |                                   |
|            | Female                                      | Male | Female                           | Male             | Female                             | Male                              |
| A (US)     | 1 Green<br>2 Black<br>3 White               |      | 1 Black<br>2 White               | 3 Red<br>4 Green | 1 White<br>2 Red<br>3 Green        | 4 Orange<br>5 Black               |
| B (Auto)   | 1 Green<br>2 Red/Black Tr<br>3 Red/White Tr |      | 1 Red/Black Tr<br>2 Red/White Tr | 3 Red<br>4 Green | 1 Red/White Tr<br>2 Red<br>3 Green | 4 Red/Yellow Tr<br>5 Red/Black Tr |

### Product Selection

#### Cordsets

| Pin Count | Material         | Assembly Rating | Color Code | Cat. No.        |                    |               |                  |
|-----------|------------------|-----------------|------------|-----------------|--------------------|---------------|------------------|
|           |                  |                 |            | Straight Female | Right Angle Female | Straight Male | Right Angle Male |
| 3-Pin     | TPE              | 300V, 10 A      | B          | 889N-F3HJA-①F   | 889N-R3HJA-①F      | 889N-U3HJA-①F | 889N-V3HJA-①F    |
| 4-Pin     |                  | 300V, 7 A       |            | 889N-F4HJA-①F   | 889N-R4HJA-①F      | 889N-U4HJA-①F | 889N-V4HJA-①F    |
| 5-Pin     |                  | 300V, 5.6 A     |            | 889N-F5HJA-①F   | 889N-R5HJA-①F      | 889N-U5HJA-①F | 889N-V5HJA-①F    |
| 3-Pin     | Tough-Weld (CPE) | 300V, 10 A      | A          | 889N-F3WEC-①F   | 889N-R3WEC-①F      | 889N-U3WEC-①F | 889N-V3WEC-①F    |
| 4-Pin     |                  | 300V, 7 A       |            | 889N-F4WEC-①F   | 889N-R4WEC-①F      | 889N-U4WEC-①F | 889N-V4WEC-①F    |
| 5-Pin     |                  | 300V, 5.6 A     |            | 889N-F5WEC-①F   | 889N-R5WEC-①F      | 889N-U5WEC-①F | 889N-V5WEC-①F    |

#### Patchcords

| Pin Count | Material        | Assembly Rating | Cat. No.                         |                                     |                                     |                                        |
|-----------|-----------------|-----------------|----------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
|           |                 |                 | Straight Female<br>Straight Male | Straight Female Right<br>Angle Male | Right Angle Female<br>Straight Male | Right Angle Female<br>Right Angle Male |
| 3-Pin     | TPE             | 300V, 10 A      | 889N-F3HJNU-①F                   | 889N-F3HJNV-①F                      | 889N-R3HJNU-①F                      | 889N-R3HJNV-①F                         |
| 4-Pin     |                 | 300V, 7 A       | 889N-F4HJNU-①F                   | 889N-F4HJNV-①F                      | 889N-R4HJNU-①F                      | 889N-R4HJNV-①F                         |
| 5-Pin     |                 | 300V, 5.6 A     | 889N-F5HJNU-①F                   | 889N-F5HJNV-①F                      | 889N-R5HJNU-①F                      | 889N-R5HJNV-①F                         |
| 3-Pin     | ToughWeld (CPE) | 300V, 10 A      | 889N-F3WENU-①F                   | 889N-F3WENV-①F                      | 889N-R3WENU-①F                      | 889N-R3WENV-①F                         |
| 4-Pin     |                 | 300V, 7 A       | 889N-F4WENU-①F                   | 889N-F4WENV-①F                      | 889N-R4WENU-①F                      | 889N-R4WENV-①F                         |
| 5-Pin     |                 | 300V, 5.6 A     | 889N-F5WENU-①F                   | 889N-F5WENV-①F                      | 889N-R5WENU-①F                      | 889N-R5WENV-①F                         |

- ① Replace symbol with 6 (6 ft), 12 (12 ft), or 20 (20 ft) for standard cable lengths.  
 ② Replace symbol with 3 (3 ft), 6 (6 ft), 12 (12 ft), or 20 (20 ft) for standard cable lengths.

**Note:** Stainless steel connector versions may be ordered by adding an "S" to the cat. no., e.g., 889NS-F3HJA-①F.

Mini Style



3-Pin Mini Female Terminal Chamber

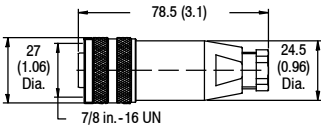
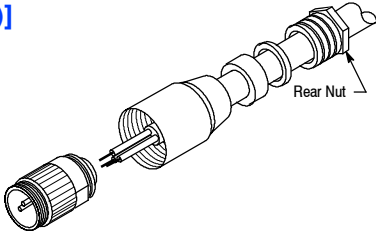
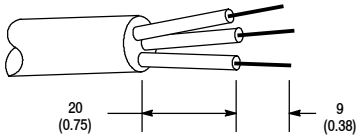
Specifications

| Mechanical                    |                               |
|-------------------------------|-------------------------------|
| Coupling Nut                  | Black anodized aluminum       |
| Connector Shell Material      | PBT                           |
| Contacts                      | Gold-plated brass             |
| Wire Size, Max.               | 16 AWG (1.5 mm <sup>2</sup> ) |
| Environmental                 |                               |
| Enclosure Type Rating         | IP67                          |
| Operating Temperature [C (F)] | -40...+85° (-40...+185°)      |

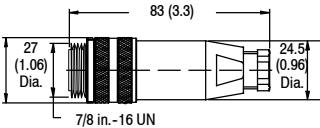
Features

- Field installable
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations

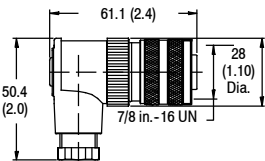
Approximate Dimensions [mm (in.)]



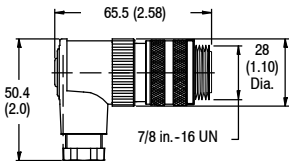
Straight  
Internal Thread



Straight  
External Thread



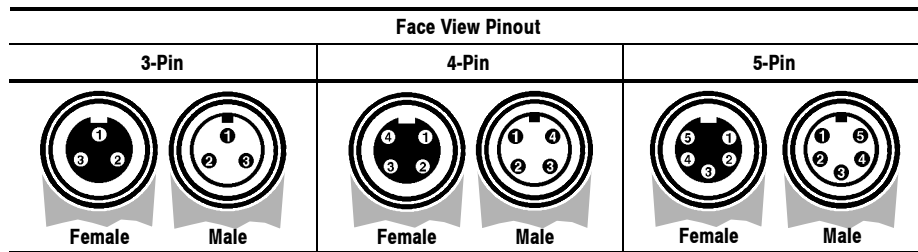
Right Angle Internal  
Thread



Right Angle External  
Thread

Dimensions are approximate. Illustrations are not drawn to scale.

## Pinout



## Product Selection

### Terminal Chambers

| Pin Count | Cable Jacket Diameter [mm (in.)] | Assembly Rating | Rear Nut Thread Size | Cat. No.                         |                                |                                |
|-----------|----------------------------------|-----------------|----------------------|----------------------------------|--------------------------------|--------------------------------|
|           |                                  |                 |                      | Straight Female Internal Threads | Straight Male Internal Threads | Straight Male External Threads |
| 3-Pin     | 6.0...8.0 (0.24...0.32)          | 250V, 12 A      | PG9                  | <b>871A-TS3-N2 ❶</b>             | <b>871A-TS3-NU2 ❶</b>          | <b>871A-TS3-NM2 ❶</b>          |
|           | 10.0...12.0 (0.39...0.47)        |                 | PG13.5               | <b>871A-TS3-N1</b>               | <b>871A-TS3-NU1</b>            | <b>871A-TS3-NM1</b>            |
| 4-Pin     | 6.0...8.0 (0.24...0.32)          | 250V, 9 A       | PG9                  | <b>871A-TS4-N1❶</b>              | <b>871A-TS4-NU1 ❶</b>          | <b>871A-TS4-NM1 ❶</b>          |
|           | 10.0...12.0 (0.39...0.47)        |                 | PG13.5               | <b>871A-TS4-N2</b>               | <b>871A-TS4-NU2</b>            | <b>871A-TS4-NM2</b>            |
|           | 12.0...14.0 (0.47...0.55)        |                 | PG16                 | <b>871A-TS4-N3</b>               | <b>871A-TS4-NU3</b>            | <b>871A-TS4-NM3</b>            |
| 5-Pin     | 6.0...8.0 (0.24...0.32)          |                 | PG9                  | <b>871A-TS5-N1 ❶</b>             | <b>871A-TS5-NU1 ❶</b>          | <b>871A-TS5-NM1 ❶</b>          |
|           | 10.0...12.0 (0.39...0.47)        |                 | PG13.5               | <b>871A-TS5-N2</b>               | <b>871A-TS5-NU2</b>            | <b>871A-TS5-NM2</b>            |
|           | 12.0...14.0 (0.47...0.55)        |                 | PG16                 | <b>871A-TS5-N3</b>               | <b>871A-TS5-NU3</b>            | <b>871A-TS5-NM3</b>            |

❶ Available in Right Angle. Replace "S" with "R" (i.e. 871A-**TR**3-N2).

**Note:** Stainless steel coupling nuts available. Add "S" to cat. no. (i.e. 871**AS**-TS3-N2).

Mini-Plus Style



10-Pin Mini-Plus Cordset

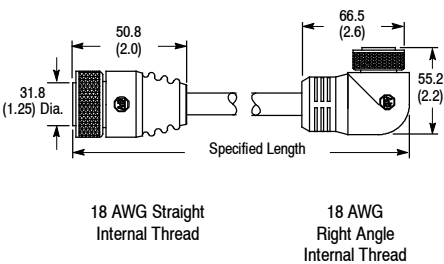
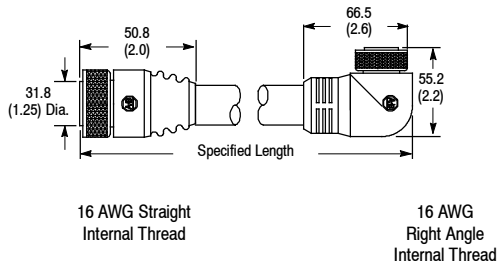
Features

- Heavy duty STOOW 16 AWG cable
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- One-piece molded body design

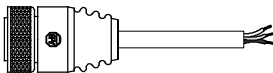
Specifications

|                               |                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                       |
| <b>Mechanical</b>             |                                                                                                                                       |
| Coupling Nut                  | Anodized aluminum with clear sealant                                                                                                  |
| Material                      | Molded oil-resistant PVC                                                                                                              |
| Contacts                      | Gold-plated machined brass                                                                                                            |
| Cable                         | Oil-resistant yellow PVC jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, STOOW                                 |
| Bend Radius                   | 10x diameter, min.                                                                                                                    |
| Cable Diameter                | 16 AWG 9/c = 17 mm (0.67 in.)<br>16 AWG 10/c = 17 mm (0.67 in.)<br>16 AWG 12/c = 18 mm (0.71 in.)<br>18/22 AWG 12/c = 9 mm (0.36 in.) |
| <b>Electrical</b>             |                                                                                                                                       |
| Cable Rating                  | 16 AWG: UL STOOW 105C 600V, CSA ST 105C FT2<br>18/22 AWG: UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT4            |
| Assembly Rating               | 16 AWG: 600V, 7 A; 18/22 AWG: 300V, 3 A                                                                                               |
| <b>Environmental</b>          |                                                                                                                                       |
| Enclosure Type Rating         | NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown                                                                                           |
| Operating Temperature [C (F)] | -40...+105° (-40...+221°)                                                                                                             |

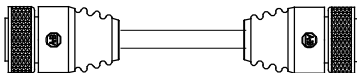
Approximate Dimensions [mm (in.)]



Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset

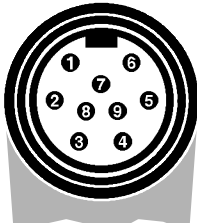
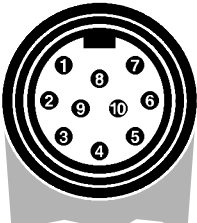
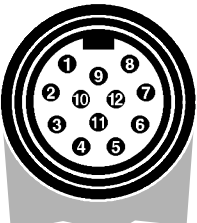


Example of Patchcord

Mating Components & Accessories

| Description      | Cat. No.    | Page  |
|------------------|-------------|-------|
| Coupling Adaptor | 889A-N3ADPT | 12-11 |

## Pinout and Color Code

| Color Code | Face View Pinout                                                                                                                                         |                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                    |                                                                                                                                                                                          |                                                                                                                                                                         |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | 9-Pin                                                                                                                                                    |                                                                                                                                      | 10-Pin                                                                                                                                                            |                                                                                                                                                    | 12-Pin                                                                                                                                                                                   |                                                                                                                                                                         |
|            | Female                                                                                                                                                   | Male                                                                                                                                 | Female                                                                                                                                                            | Male                                                                                                                                               | Female                                                                                                                                                                                   | Male                                                                                                                                                                    |
| A          | <br>1 Orange<br>2 Blue<br>3 Red/Black Tr<br>4 Green/Black Tr<br>5 White | <br>6 Red<br>7 Green<br>8 White/Black Tr<br>9 Black | <br>1 Orange<br>2 Blue<br>3 White/Black Tr<br>4 Red/Black Tr<br>5 Green/Black Tr | <br>6 Orange/Black Tr<br>7 Red<br>8 Green<br>9 Black<br>10 White | <br>1 Orange<br>2 Blue<br>3 White/Black Tr<br>4 Red/Black Tr<br>5 Green/Black Tr<br>6 Orange/Black Tr | <br>7 Blue/Black Tr<br>8 Black/White Tr<br>9 Green<br>10 Red<br>11 White<br>12 Black |
| B          | —                                                                                                                                                        |                                                                                                                                      | —                                                                                                                                                                 |                                                                                                                                                    | 1 White<br>2 Green<br>3 Yellow<br>4 Grey<br>5 Rose<br>6 Red                                                                                                                              | 7 Black<br>8 Violet<br>9 Green/Yellow ❶<br>10 Orange<br>11 Blue ❶<br>12 Brown ❶                                                                                         |

## Product Selection

### Cordsets

| Pin Count | Assembly Rating                  | Color Code | Cat. No.        |               |
|-----------|----------------------------------|------------|-----------------|---------------|
|           |                                  |            | Straight Female | Straight Male |
| 9-Pin     | 16 AWG, 600V, 7 A                | A          | 889N-F9AF-❷     | 889N-U9AF-❷   |
| 10-Pin    | 16 AWG, 600V, 7 A                |            | 889N-F10AF-❷    | 889N-U10AF-❷  |
| 12-Pin    | 16 AWG, 600V, 7 A                |            | 889N-F12AF-❷    | 889N-U12AF-❷  |
|           | (3) 18 AWG/(9) 22 AWG, 300V, 3 A | B          | 889N-F12AC-❷    | —             |

### Patchcords

| Pin Count                                                   | Assembly Rating                  | Cat. No.                         |                                     |
|-------------------------------------------------------------|----------------------------------|----------------------------------|-------------------------------------|
|                                                             |                                  | Straight Female<br>Straight Male | Straight Female<br>Right Angle Male |
| 9-Pin                                                       | 16 AWG, 600V, 7 A                | 889N-F9AFNU-❸                    | —                                   |
| 10-Pin                                                      | 16 AWG, 600V, 7 A                | 889N-F10AFNU-❸                   | 889N-F10AFNV-❸                      |
| 10-Pin                                                      | (3) 18 AWG/(9) 22 AWG, 300V, 3 A | 889N-F10ACNU-❸                   | 889N-F10ACNV-❸                      |
| 12-Pin                                                      | 16 AWG, 600V, 7 A                | 889N-F12AFNU-❸                   | 889N-F12AFNV-❸                      |
| 12-Pin                                                      | (3) 18 AWG/(9) 22 AWG, 300V, 3 A | 889N-F12ACNU-❸                   | 889N-F12ACNV-❸                      |
| Thread adaptor to couple standard internally threaded ends. |                                  | 889A-N3ADPT                      | 889A-N3ADPT                         |

- ❶ 18 AWG conductors
- ❷ Replace symbol with 2 (2 m (6.5 ft)), 5 (5 m (16.4 ft)), or 10 (10 m (32.8 ft)) for standard cable lengths.
- ❸ Replace symbol with 1 (1 m), 2 (2 m), 3 (3 m), 5 (5 m), or 10 (10 m) for standard cable lengths.

DC Micro Style



4-Pin DC Micro Cordset

Features

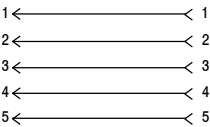
- Ratcheting coupling nut
- Subtle black or highly visible yellow PVC jacket offers good oil and chemical resistance
- Blue jacket models for intrinsically safe applications
- “-V” models allow wiring of devices using pin 2 for output into standard single-point distribution boxes and IP 67 I/O

Specifications

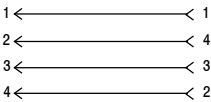
|                               |                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                       |
| <b>Mechanical</b>             |                                                                                                                                       |
| Coupling Nut                  | Epoxy-coated zinc                                                                                                                     |
| Material                      | Molded oil-resistant PUR                                                                                                              |
| Contacts                      | Gold-plated brass                                                                                                                     |
| Cable                         | Oil-resistant PVC jacket, 18 AWG or 22 AWG conductors, 300V, UL Recognized and CSA Certified                                          |
| Bend Radius                   | 10x diameter, min.                                                                                                                    |
| Cable Diameter                | 2/c = 5 mm (0.21 in.)<br>3/c = 5 mm (0.21 in.)<br>4/c = 5 mm (0.21 in.)<br>5/c = 6.5 mm (0.25 in.)<br>4/c (18AWG) = 6.5 mm (0.25 in.) |
| <b>Electrical</b>             |                                                                                                                                       |
| Cable Rating                  | UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant                                           |
| Assembly Rating               | 250V, 4 A                                                                                                                             |
| <b>Environmental</b>          |                                                                                                                                       |
| Enclosure Type Rating         | IP 67, NEMA 6P, 1200 psi (8270 kPa) washdown                                                                                          |
| Operating Temperature [C (F)] | -20...+105 ° (-4...+221 °)                                                                                                            |

Wiring Diagrams

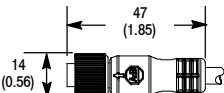
Standard Models



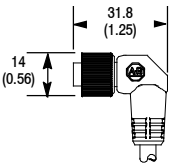
889D-\*4ACD\*-V\* Models



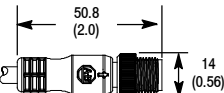
Approximate Dimensions [mm (in.)]



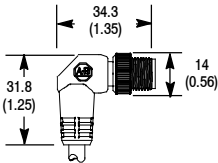
Straight Female



Right Angle Female

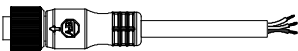


Straight Male

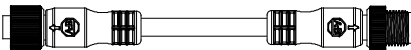


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.

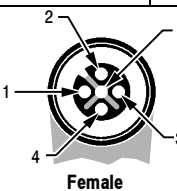
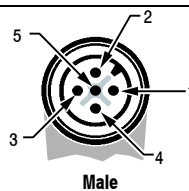


Example of Cordset



Example of Patchcord

## Pinout and Color Code

| Color Code | Face View Pinout                                                                                                                                                                                                             |                |                           |                 |                              |                 |                              |                   |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------|-----------------|------------------------------|-----------------|------------------------------|-------------------|
|            | 2-Pin                                                                                                                                                                                                                        |                | 3-Pin                     |                 | 4-Pin                        |                 | 5-Pin                        |                   |
|            | <div><div><p>Female</p></div><div><p>Male</p></div></div> |                |                           |                 |                              |                 |                              |                   |
| A          | 1 NA<br>2 NA<br>3 Brown                                                                                                                                                                                                      | 4 Blue<br>5 NA | 1 Brown<br>2 NA<br>3 Blue | 4 Black<br>5 NA | 1 Brown<br>2 White<br>3 Blue | 4 Black<br>5 NA | 1 Brown<br>2 White<br>3 Blue | 4 Black<br>5 Grey |

## Product Selection

### Cordsets

| Pin Count | Color Code | Jacket Color | Wire Gauge | Cat. No.           |                    |                    |                    |
|-----------|------------|--------------|------------|--------------------|--------------------|--------------------|--------------------|
|           |            |              |            | Straight Female    | Right Angle Female | Straight Male      | Right Angle Male   |
| 2-Pin     | A          | Yellow       | 22 AWG     | 889D-F2AC-❶        | 889D-R2AC-❶        | 889D-M2AC-❶        | 889D-E2AC-❶        |
| 3-Pin     | A          | Yellow       |            | 889D-F3AC-❶        | 889D-R3AC-❶        | 889D-M3AC-❶        | 889D-E3AC-❶        |
| 4-Pin     | A          | Yellow       | 18 AWG     | <b>889D-F4AC-❶</b> | <b>889D-R4AC-❶</b> | <b>889D-M4AC-❶</b> | <b>889D-E4AC-❶</b> |
|           | A          | Yellow       |            | <b>889D-F4AE-❶</b> | <b>889D-R4AE-❶</b> | <b>889D-M4AE-❶</b> | <b>889D-E4AE-❶</b> |
|           | A          | Black        | 22 AWG     | <b>889D-F4BC-❶</b> | <b>889D-R4BC-❶</b> | <b>889D-M4BC-❶</b> | <b>889D-E4BC-❶</b> |
|           | A          | Blue         |            | <b>889D-F4LC-❶</b> | <b>889D-R4LC-❶</b> | <b>889D-M4LC-❶</b> | <b>889D-E4LC-❶</b> |
| 5-Pin     | A          | Yellow       | 22 AWG     | <b>889D-F5AC-❶</b> | <b>889D-R5AC-❶</b> | <b>889D-M5AC-❶</b> | <b>889D-E5AC-❶</b> |
|           | A          | Black        |            | <b>889D-F5BC-❶</b> | <b>889D-R5BC-❶</b> | <b>889D-M5BC-❶</b> | <b>889D-E5BC-❶</b> |

### Patchcords

| Pin Count | Color Code | Jacket Color | Wire Gauge | Cat. No.                         |                                     |                                     |                                        |
|-----------|------------|--------------|------------|----------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
|           |            |              |            | Straight Female<br>Straight Male | Straight Female<br>Right Angle Male | Right Angle Female<br>Straight Male | Right Angle Female<br>Right Angle Male |
| 2-Pin     | A          | Yellow       | 22 AWG     | 889D-F2ACDM-❷                    | 889D-F2ACDE-❷                       | 889D-R2ACDM-❷                       | 889D-R2ACDE-❷                          |
| 3-Pin     | A          | Yellow       | 22 AWG     | 889D-F3ACDM-❷                    | 889D-F3ACDE-❷                       | 889D-R3ACDM-❷                       | 889D-R3ACDE-❷                          |
| 4-Pin     | A          | Yellow       | 22 AWG     | <b>889D-F4ACDM-❷</b>             | <b>889D-F4ACDE-❷</b>                | <b>889D-R4ACDM-❷</b>                | <b>889D-R4ACDE-❷</b>                   |
|           | A❸         | Yellow       | 22 AWG     | 889D-F4ACDM-V❷                   | 889D-F4ACDE-V❷                      | 889D-R4ACDM-V❷                      | 889D-R4ACDE-V❷                         |
|           | A          | Yellow       | 18 AWG     | 889D-F4AEDM-❷                    | 889D-F4AEDE-❷                       | 889D-R4AEDM-❷                       | 889D-R4AEDE-❷                          |
|           | A          | Black        | 22 AWG     | 889D-F4BCDM-❷                    | 889D-F4BCDE-❷                       | 889D-R4BCDM-❷                       | 889D-R4BCDE-❷                          |
|           | A          | Blue         | 22 AWG     | 889D-F4LCDM-❷                    | 889D-F4LCDE-❷                       | 889D-R4LCDM-❷                       | 889D-R4LCDE-❷                          |
|           | A          | Yellow       | 22 AWG     | <b>889D-F5ACDM-❷</b>             | <b>889D-F5ACDE-❷</b>                | <b>889D-R5ACDM-❷</b>                | <b>889D-R5ACDE-❷</b>                   |
| 5-Pin     | A          | Yellow       | 22 AWG     | 889D-F5BCDM-❷                    | 889D-F5BCDE-❷                       | 889D-R5BCDM-❷                       | 889D-R5BCDE-❷                          |

- ❶ Replace symbol with 2 (2 m), 5 (5 m) or 10 (10 m) for standard cable lengths.  
❷ Replace symbol with 0M3 (1 ft), 1 (1 m), 2 (2 m), 5 (5 m) or 10 (10 m) for standard lengths.  
❸ See Wiring Diagrams.

**Note:** Stainless steel connectors may be ordered by adding an "S" to the cat. no. (e.g. 889DS-F4AC-2).

DC Micro Style



4-Pin DC Micro Cordset

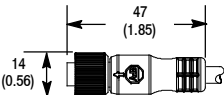
Features

- Ratcheting coupling nut
- Q models specifically wired for QuadroPlex applications
- N models specifically wired for NAMUR applications
- E models specifically wired for Photo Emitter applications
- K models specifically wired for KwikLink Auxiliary Power applications
- Blue Jacket models for intrinsically safe applications

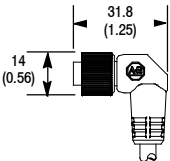
Specifications

|                               |                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                        |
| <b>Mechanical</b>             |                                                                                                                                        |
| Coupling Nut                  | Epoxy-coated zinc                                                                                                                      |
| Material                      | Molded oil-resistant PUR                                                                                                               |
| Contacts                      | Gold-plated brass                                                                                                                      |
| Cable                         | Unshielded, oil-, water- and UV-resistant, UL Recognized and CSA Certified                                                             |
| Cable Diameter                | 2/c = 5 mm (0.21 in.)<br>3/c = 5 mm (0.21 in.)<br>4/c = 5 mm (0.21 in.)<br>5/c = 6.5 mm (0.25 in.)<br>4/c (18 AWG) = 6.5 mm (0.25 in.) |
| Bend Radius                   | 10x diameter, min.                                                                                                                     |
| <b>Electrical</b>             |                                                                                                                                        |
| Cable Rating                  | UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant                                            |
| Assembly Rating               | 250V, 4 A                                                                                                                              |
| <b>Environmental</b>          |                                                                                                                                        |
| Enclosure Type Rating         | IP67, NEMA 6P, 1200 psi (8270 kPa) washdown                                                                                            |
| Operating Temperature [C (F)] | -20...+105 ° (-4...+221 °)                                                                                                             |

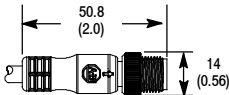
Approximate Dimensions [mm (in.)]



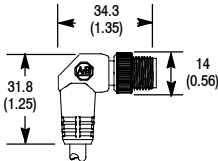
Straight Female



Right Angle Female

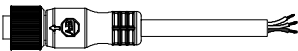


Straight Male

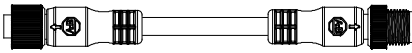


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.

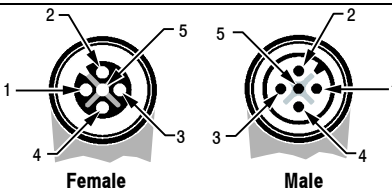


Example of Cordset



Example of Patchcord

## Pinout and Color Code

| Face View Pinout                                                                   |                                   |                                   |                                   |                                   |                                   |
|------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 4-Pin/2 Conductor                                                                  |                                   |                                   |                                   |                                   |                                   |
|  |                                   |                                   |                                   |                                   |                                   |
| Color Code                                                                         | A                                 | B                                 | C                                 | D                                 | F                                 |
|                                                                                    | Photo Emitter                     | NAMUR                             | QuadroPlex                        | KwikLink Aux Power                | 2-Wire                            |
|                                                                                    | 1 Brown<br>2 NA<br>3 Blue<br>4 NA | 1 Brown<br>2 Blue<br>3 NA<br>4 NA | 1 Brown<br>2 NA<br>3 NA<br>4 Blue | 1 NA<br>2 Brown<br>3 Blue<br>4 NA | 1 NA<br>2 NA<br>3 Brown<br>4 Blue |

## Product Selection

### Cordsets

| No. of Pins | Color Code | Wire Type          | Jacket Material | Wire Size, AWG | Cat. No.        |                    |               |                  |
|-------------|------------|--------------------|-----------------|----------------|-----------------|--------------------|---------------|------------------|
|             |            |                    |                 |                | Straight Female | Right Angle Female | Straight Male | Right Angle Male |
| 2-Pin       | B          | NAMUR              | Blue PVC        | 22 AWG         | 889D-F2LC-N❶    | 889D-R2LC-N❶       | 889D-M2LC-N❶  | 889D-E2LC-N❶     |
|             | F          | Intrinsically Safe | Blue PVC        | 22 AWG         | 889D-F2LC-❶     | 889D-R2LC-❶        | 889D-M2LC-❶   | 889D-E2LC-❶      |
|             | C          | QuadroPlex         | Yellow PVC      | 22 AWG         | 889D-F2AC-Q❶    | 889D-R2AC-Q❶       | 889D-M2AC-Q❶  | 889D-E2AC-Q❶     |
|             | A          | Photo Emitter      | Yellow PVC      | 22 AWG         | 889D-F2AC-E❶    | 889D-R2AC-E❶       | 889D-M2AC-E❶  | 889D-E2AC-E❶     |
|             | D          | KwikLink Aux Pwr   | Yellow PVC      | 18 AWG         | 889D-F2AE-K❶    | 889D-R2AE-K❶       | 889D-M2AE-K❶  | 889D-E2AE-K❶     |

### Patchcords

| No. of Pins | Color Code | Wire Type          | Jacket Material | Wire Size AWG | Cat. No.                            |                                        |                                          |                                             |
|-------------|------------|--------------------|-----------------|---------------|-------------------------------------|----------------------------------------|------------------------------------------|---------------------------------------------|
|             |            |                    |                 |               | Straight Female...<br>Straight Male | Straight Female...<br>Right Angle Male | Right Angle<br>Female...Straight<br>Male | Right Angle<br>Female...Right<br>Angle Male |
| 2-Pin       | B          | NAMUR              | Blue PVC        | 22            | 889D-F2LCDM-N❶                      | 889D-R2LCDE-N❶                         | 889D-F2LCDM-N❶                           | 889D-R2LCDE-N❶                              |
|             | F          | Intrinsically Safe | Blue PVC        | 22            | 889D-F2LCDM-❶                       | 889D-R2LCDE-❶                          | 889D-F2LCDM-❶                            | 889D-R2LCDE-❶                               |
|             | C          | QuadroPlex         | Yellow PVC      | 22            | 889D-F2ACDM-Q❶                      | 889D-R2ACDE-Q                          | 889D-F2ACDM-Q❶                           | 889D-R2ACDE-Q❶                              |
|             | A          | Photo Emitter      | Yellow PVC      | 22            | 889D-F2ACDM-E❶                      | 889D-R2ACDE-E                          | 889D-F2ACDM-E❶                           | 889D-R2ACDE-E❶                              |
|             | D          | KwikLink Aux Pwr   | Yellow PVC      | 18            | 889D-F2AEDM-K❶                      | 889D-R2AEDE-K                          | 889D-F2AEDM-K❶                           | 889D-R2AEDE-K❶                              |

❶ Replace symbol with 2 (2 m), 5 (5 m) or 10 (10 m) for standard cable lengths.

**Note:** Stainless steel connectors may be ordered by adding an "S" to the cat. no. (e.g. 889DS-F2LN-N2).

**Notes:** QuadroPlex models are used with 872C Proximity products.  
NAMUR models are used with 871C Proximity products.  
Photo Emitter models are used with Photoelectric light source/emitter/models.

DC Micro Style



4-Pin DC Micro Cordset

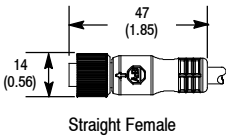
Features

- PUR jacket provides good oil and chemical resistance
- TPE jacket material for good oil, chemical, and weld slag resistance
- 8-pin/7-wire configuration for Sipha safety switches and other applications
- Ratcheting coupling nuts for vibration resistance

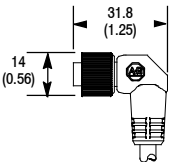
Specifications

|                             |                                                                                                                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications              | UL Recognized and CSA Certified                                                                                                                                                                                                                                               |
| <b>Mechanical</b>           |                                                                                                                                                                                                                                                                               |
| Coupling Nut                | Epoxy-Coated Zinc                                                                                                                                                                                                                                                             |
| Material                    | Molded oil-resistant PUR                                                                                                                                                                                                                                                      |
| Contacts                    | Gold-plated brass                                                                                                                                                                                                                                                             |
| Cable                       | PUR or TPE jacket, 18 & 22 AWG or 24 AWG conductors, 300V; UL Recognized and CSA Certified                                                                                                                                                                                    |
| Bend Radius                 | 10x diameter, min.                                                                                                                                                                                                                                                            |
| Cable Diameter              | 4/c (PUR): 5 mm (0.21 in.)<br>4/c (18 AWG TPE): 7 mm (0.28 in.)<br>4/c (22 AWG TPE): 4.9 mm (0.19 in.)<br>5/c: 6.5 mm (0.25 in.)<br>7/c: 7.4 mm (0.29 in.)<br>8/c: 7.4 mm (0.29 in.)                                                                                          |
| <b>Electrical</b>           |                                                                                                                                                                                                                                                                               |
| Cable Rating                | 4 & 5/c (PUR): UL AWM style 20866 VW-1 80C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant<br>8/c (PUR): UL AWM style 20866 90C 300V, CSA II A 90C 300V<br>TPE: UL AWM style 20327 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1, UV oil and water resistant |
| Assembly Rating             | 4- or 5-pin: 250V, 4 A; 8-pin: 300V AC/36V DC, 1.5 A                                                                                                                                                                                                                          |
| <b>Environmental</b>        |                                                                                                                                                                                                                                                                               |
| Enclosure Type Rating       | IP 67, NEMA 6P, 1200 psi (8270 kPa) washdown                                                                                                                                                                                                                                  |
| Operating Temperature—C (F) | PUR models: -20...+80 ° (-4...+176 °)<br>TPE models: -20...+105 ° (-4...+221 °)<br>TPR models: -25...+125 ° (-13...+256 °)                                                                                                                                                    |

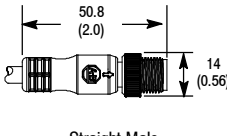
Approximate Dimensions [mm (in.)]



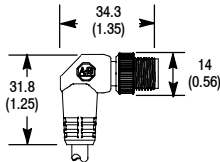
Straight Female



Right Angle Female

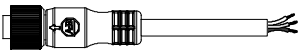


Straight Male

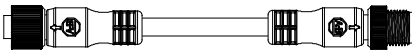


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.

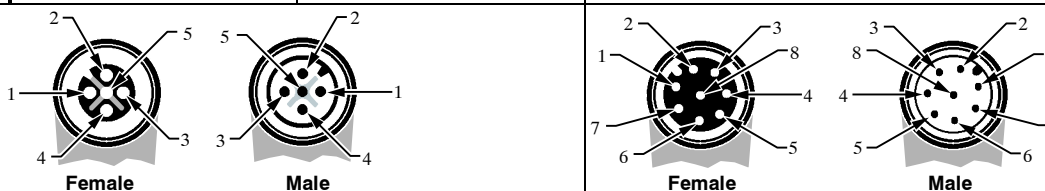


Example of Cordset



Example of Patchcord

## Pinout and Color Code

| Color Code | Face View Pinout                                                                   |                                                 |                                                   |                                                                                  |
|------------|------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------|
|            | 3-Pin                                                                              | 4-Pin                                           | 5-Pin                                             | 8-Pin                                                                            |
|            |  |                                                 |                                                   |                                                                                  |
| A          | 1 Brown<br>2 NA<br>3 Blue<br>4 Black<br>5 NA                                       | 1 Brown<br>2 White<br>3 Blue<br>4 Black<br>5 NA | 1 Brown<br>2 White<br>3 Blue<br>4 Black<br>5 Grey | 1 Red<br>2 Blue<br>3 Green<br>4 Yellow<br>5 Black<br>6 White<br>7 N.C.<br>8 Grey |
| B          | —                                                                                  | —                                               | —                                                 | 1 White<br>2 Brown<br>3 Green<br>4 Yellow<br>5 Grey<br>6 Pink<br>7 Blue<br>8 Red |

## Product Selection

### Cordsets

| Pin Count | Cable Type | Assembly Rating                | Color Code | Cat. No.        |                    |               |                  |
|-----------|------------|--------------------------------|------------|-----------------|--------------------|---------------|------------------|
|           |            |                                |            | Straight Female | Right Angle Female | Straight Male | Right Angle Male |
| 3-Pin     | PUR        | 18 AWG, 300V, 4 A              | A          | 889D-F3UE-❶     | 889D-R3UE-❶        | 889D-M3UE-❶   | 889D-E3UE-❶      |
| 4-Pin     | TPE        | 18 AWG, 250V, 4 A              | A          | 889D-F4HJ-❶     | 889D-R4HJ-❶        | 889D-M4HJ-❶   | 889D-E4HJ-❶      |
| 4-Pin     | TPE        | 22 AWG, 250V, 4 A              | A          | 889D-F4HL-❶     | 889D-R4HL-❶        | 889D-M4HL-❶   | 889D-E4HL-❶      |
|           | PUR        |                                | A          | 889D-F4UC-❶     | 889D-R4UC-❶        | 889D-M4UC-❶   | 889D-E4UC-❶      |
| 4-Pin     | PUR        | 18 AWG, 300V, 4 A              | A          | 889D-F4UE-❶     | 889D-R4UE-❶        | 889D-M4UE-❶   | 889D-E4UE-❶      |
| 5-Pin     | PUR        | 22 AWG, 250V, 4 A              | A          | 889D-F5UC-❶     | 889D-R5UC-❶        | 889D-M5UC-❶   | 889D-E5UC-❶      |
| 8-Pin     | TPR        | 24 AWG 30V AC/<br>36V DC 1.5 A | A          | 889D-F8AC-❶     | —                  | —             | —                |
|           | PUR        |                                | B          | 889D-F8AB-❶     | 889D-R8AB-❶        | 889D-M8AB-❶   | —                |

### Patchcords

| Pin Count | Cable Type | Assembly Rating                 | Color Code | Cat. No.                         |                                     |                                     |                                        |
|-----------|------------|---------------------------------|------------|----------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
|           |            |                                 |            | Straight Female<br>Straight Male | Straight Female<br>Right Angle Male | Right Angle Female<br>Straight Male | Right Angle Female<br>Right-Angle Male |
| 3-Pin     | PUR        | 18 AWG, 300V, 4 A               | A          | 889D-F3UEDM-❷                    | 889D-F3UEDE-❷                       | 889D-R3UEDM-❷                       | 889D-R3UEDE-❷                          |
| 4-Pin     | TPE        | 18 AWG, 250V, 4 A               | A          | 889D-F4HJDM-❷                    | 889D-F4HJDE-❷                       | 889D-R4HJDM-❷                       | 889D-R4HJDE-❷                          |
|           |            | 22 AWG, 250V, 4 A               | A          | 889D-F4HLDM-❷                    | 889D-F4HLDE-❷                       | 889D-R4HLDM-❷                       | 889D-R4HLDE-❷                          |
|           | PUR        |                                 | A          | 889D-F4UCDM-❷                    | 889D-F4UCDE-❷                       | 889D-R4UCDM-❷                       | 889D-R4UCDE-❷                          |
| 4-Pin     | PUR        | 18 AWG, 300V, 4 A               | A          | 889D-F4UEDM-❷                    | 889D-F4UEDE-❷                       | 889D-R4UEDM-❷                       | 889D-R4UEDE-❷                          |
| 5-Pin     | PUR        | 22 AWG, 250V, 4 A               | A          | 889D-F5UCDM-❷                    | 889D-F5UCDE-❷                       | 889D-R5UCDM-❷                       | 889D-R5UCDE-❷                          |
| 8-Pin     |            | 24 AWG, 30V AC/<br>36V DC 1.5 A | A          | 889D-F8ABDM-❷                    | —                                   | —                                   | —                                      |

❶ Replace symbol with 2 (2 m), 5 (5 m), or 10 (10 m) for standard cable lengths.

❷ Replace symbol with 0M3 (1 ft), 1 (1 m), 2 (2 m), 5 (5 m) or 10 (10 m) for standard lengths.

**Note:** Stainless steel connectors may be ordered by adding an "S" to the cat. no. (e.g. 889DS-F4HJ-2).

DC Micro Style



4-Pin DC Micro Cordset

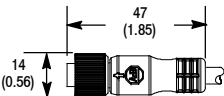
Features

- Ratcheting coupling nut for vibrating resistance
- ToughLink TPE yellow jacket offers excellent oil and chemical resistance
- ToughWeld CPE yellow jacket provides excellent resistance to weld slag
- Heavy duty construction for rugged environments

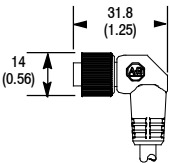
Specifications

|                               |                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                                                                                                     |
| <b>Mechanical</b>             |                                                                                                                                                                                                                     |
| Coupling Nut                  | Epoxy-coated zinc                                                                                                                                                                                                   |
| Material                      | Molded oil-resistant PUR                                                                                                                                                                                            |
| Contacts                      | Gold-plated brass                                                                                                                                                                                                   |
| Cable                         | Allen-Bradley ToughLink TPE or ToughWeld CPE yellow jacket, 18 AWG or 22 AWG conductors, 300V; UL Recognized and CSA Certified                                                                                      |
| Bend Radius                   | 10x diameter, min.                                                                                                                                                                                                  |
| Cable Diameter                | ToughLink: 9 mm (0.35 in.); ToughWeld: 9 mm (0.35 in.)                                                                                                                                                              |
| <b>Electrical</b>             |                                                                                                                                                                                                                     |
| Cable Rating                  | ToughLink: UL AWM style 20328 600V VW-1 -50...+105°C water resistant, CSA AWM I/II A/B 105C 600V FT1<br>ToughWeld: UL -50°C SJOOW 90°C dry and 60°C water resistant, CSA -50°C SJOOW 90°C FT1, P-123-103, MSHA 300V |
| Assembly Rating               | 250V, 4 A                                                                                                                                                                                                           |
| <b>Environmental</b>          |                                                                                                                                                                                                                     |
| Enclosure Type Rating         | IP67, NEMA 6P, 1200 psi (8270 kPa) washdown                                                                                                                                                                         |
| Operating Temperature [C (F)] | ToughLink: -50...+105° (-58...+221°)<br>ToughWeld: -50...90° (-58...+194°)                                                                                                                                          |

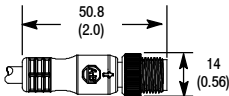
Approximate Dimensions [mm (in.)]



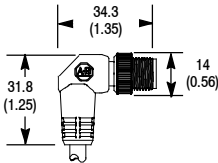
Straight Female



Right Angle Female

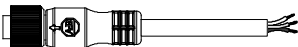


Straight Male

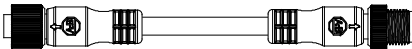


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset



Example of Patchcord

## Pinout and Color Code

| Color Code | Face View Pinout                        |                                         |
|------------|-----------------------------------------|-----------------------------------------|
|            | 4-Pin                                   |                                         |
|            | Female                                  | Male                                    |
| A          | 1 Brown<br>2 White<br>3 Blue<br>4 Black | 3 Blue<br>4 Black<br>1 Brown<br>2 White |

## Product Selection

### Cordsets

| Pin Count | Material        | Assembly Rating       | Color Code | Cat. No.           |                    |               |                  |
|-----------|-----------------|-----------------------|------------|--------------------|--------------------|---------------|------------------|
|           |                 |                       |            | Straight Female    | Right Angle Female | Straight Male | Right Angle Male |
| 4-Pin     | ToughLink (TPE) | 22 AWG<br>250V<br>4 A | A          | <b>889D-F4HC-❶</b> | <b>889D-R4HC-❶</b> | 889D-M4HC-❶   | 889D-E4HC-❶      |
|           | ToughWeld (CPE) | 18 AWG<br>250V<br>4 A | A          | <b>889D-F4WE-❶</b> | 889D-R4WE-❶        | 889D-M4WE-❶   | 889D-E4WE-❶      |
|           | ToughLink (TPE) | 18 AWG<br>250V<br>4 A | A          | 889D-F4HE-❶        | 889D-R4HE-❶        | 889D-M4HE-❶   | 889D-E4HE-❶      |

### Patchcords

| Pin Count | Material        | Assembly Rating       | Cat. No.                         |                                     |                                     |                                        |
|-----------|-----------------|-----------------------|----------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
|           |                 |                       | Straight Female<br>Straight Male | Straight Female Right<br>Angle Male | Right Angle Female<br>Straight Male | Right Angle Female<br>Right Angle Male |
| 4-Pin     | ToughLink (TPE) | 22 AWG<br>250V<br>4 A | 889D-F4HCDM-❷                    | 889D-F4HCDE-❷                       | 889D-R4HCDM-❷                       | 889D-R4HCDE-❷                          |
|           | ToughWeld (CPE) | 18 AWG<br>250V<br>4 A | <b>889D-F4WEDM-❷</b>             | 889D-F4WEDE-❷                       | 889D-R4WEDM-❷                       | 889D-R4WEDE-❷                          |
|           | ToughLink (TPE) | 18 AWG<br>250V<br>4 A | 889D-F4HEDM-❷                    | 889D-F4HEDE-❷                       | 889D-R4HEDM-❷                       | 889D-R4HEDE-❷                          |

❶ Replace symbol with 1 (1 m), 2 (2 m), 5 (5 m), or 10 (10 m) for standard cable lengths.

❷ Replace symbol with 1 (1 m), 2 (2 m), 3 (3 m), 4 (4 m), 5 (5 m) or 6 (6 m) for standard lengths.

**Note:** Stainless steel connectors may be ordered by adding an "S" to the cat. no. (e.g. 889DS-F4HC-2).

# Connection Systems

## Terminal Chambers, DC Micro Style

Screw Type, Field Attachable Connector

### DC Micro Style



DC Micro Female

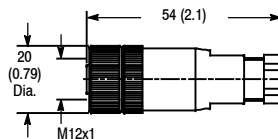
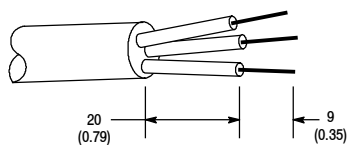
### Specifications

| Mechanical                    |                                               |
|-------------------------------|-----------------------------------------------|
| Coupling Nut                  | Nickel-plated brass                           |
| Connector Shell Material      | PBT, except embedded thermistor models: Nylon |
| Contacts                      | Gold-plated palladium nickel                  |
| Cable                         | 18 AWG (0.75 mm <sup>2</sup> ) max.           |
| Electrical                    |                                               |
| Assembly Rating               | 4- or 5-pin: 250V, 4 A; 8-pin: 60V, 2 A       |
| Environmental                 |                                               |
| Enclosure Type Rating         | IP67                                          |
| Operating Temperature [C (F)] | -40...+88° (-40...+185°)                      |

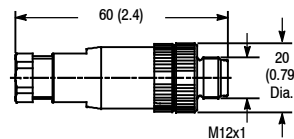
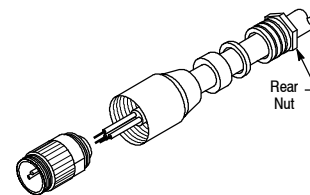
### Features

- Field installable
- 4- or 5-pin DC micro style
- Straight or right angle
- Single cable or dual cable models
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations

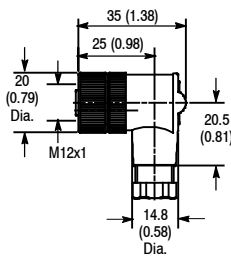
### Approximate Dimensions [mm (in.)]



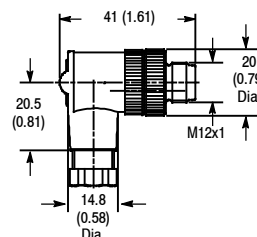
Straight Female



Straight Male



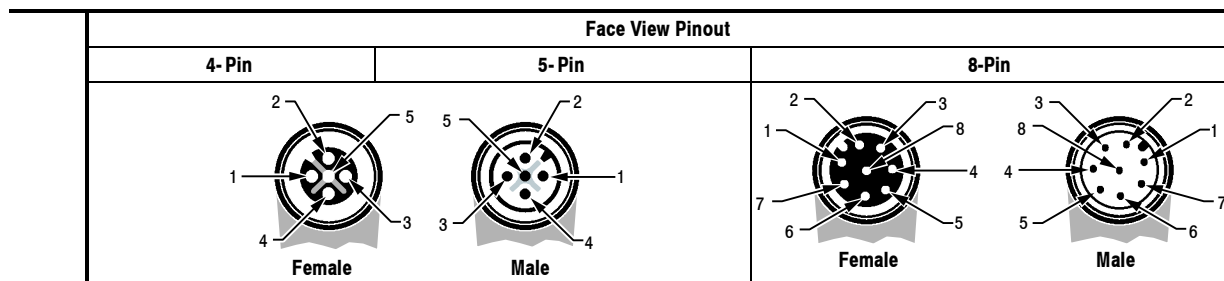
Right Angle Female



Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.

## Pinout



## Product Selection

### Single-Cable Model Terminal Chambers

| Pin Count | Cable Jacket Diameter [mm (in.)] | Assembly Rating | Rear Nut Thread Size | Cat. No.           |                    |                     |                     |
|-----------|----------------------------------|-----------------|----------------------|--------------------|--------------------|---------------------|---------------------|
|           |                                  |                 |                      | Straight Female    | Right Angle Female | Straight Male       | Right Angle Male    |
| 4-Pin     | 4.0...6.0 (0.16...0.24)          | 250V, 4 A       | PG 7                 | <b>871A-TS4-D</b>  | <b>871A-TR4-D</b>  | <b>871A-TS4-DM</b>  | <b>871A-TR4-DM</b>  |
|           | 6.0...8.0 (0.24...0.32)          |                 | PG 9                 | <b>871A-TS4-D1</b> | <b>871A-TR4-D1</b> | <b>871A-TS4-DM1</b> | <b>871A-TR4-DM1</b> |
| 5-Pin     | 4.0...6.0 (0.16...0.24)          |                 | PG 7                 | <b>871A-TS5-D</b>  | <b>871A-TR5-D</b>  | <b>871A-TS5-DM</b>  | <b>871A-TR5-DM</b>  |
|           | 6.0...8.0 (0.24...0.32)          |                 | PG 9                 | <b>871A-TS5-D1</b> | <b>871A-TR5-D1</b> | <b>871A-TS5-DM1</b> | <b>871A-TR5-DM1</b> |
| 8-Pin     | 6.0...8.0 (0.24...0.32)          | 60V, 2 A        | PG 9                 | <b>871A-TS8-D1</b> | —                  | <b>871A-TS8-DM1</b> | —                   |

### Dual-Cable Model Terminal Chambers

| Pin Count | Cable Jacket Diameter [mm (in.)]                                       | Assembly Rating | Rear Nut Thread Size | Cat. No.           |                    |
|-----------|------------------------------------------------------------------------|-----------------|----------------------|--------------------|--------------------|
|           |                                                                        |                 |                      | Straight Male      | Right Angle Male   |
| 4-Pin     | Two cables<br>2.1...3.0 (0.08...0.12)<br>or<br>3.5...5.2 (0.14...0.21) | 250V, 4 A       | PG 9                 | <b>871A-VS4-DM</b> | <b>871A-VR4-DM</b> |
| 5-Pin     |                                                                        |                 |                      | <b>871A-VS5-DM</b> | <b>871A-VR5-DM</b> |

**Note:** Stainless steel coupling nuts available, add an "S" to the cat. no. (e.g. **871AS-TS4-DM**).

## DC Micro Style



DC Micro Male

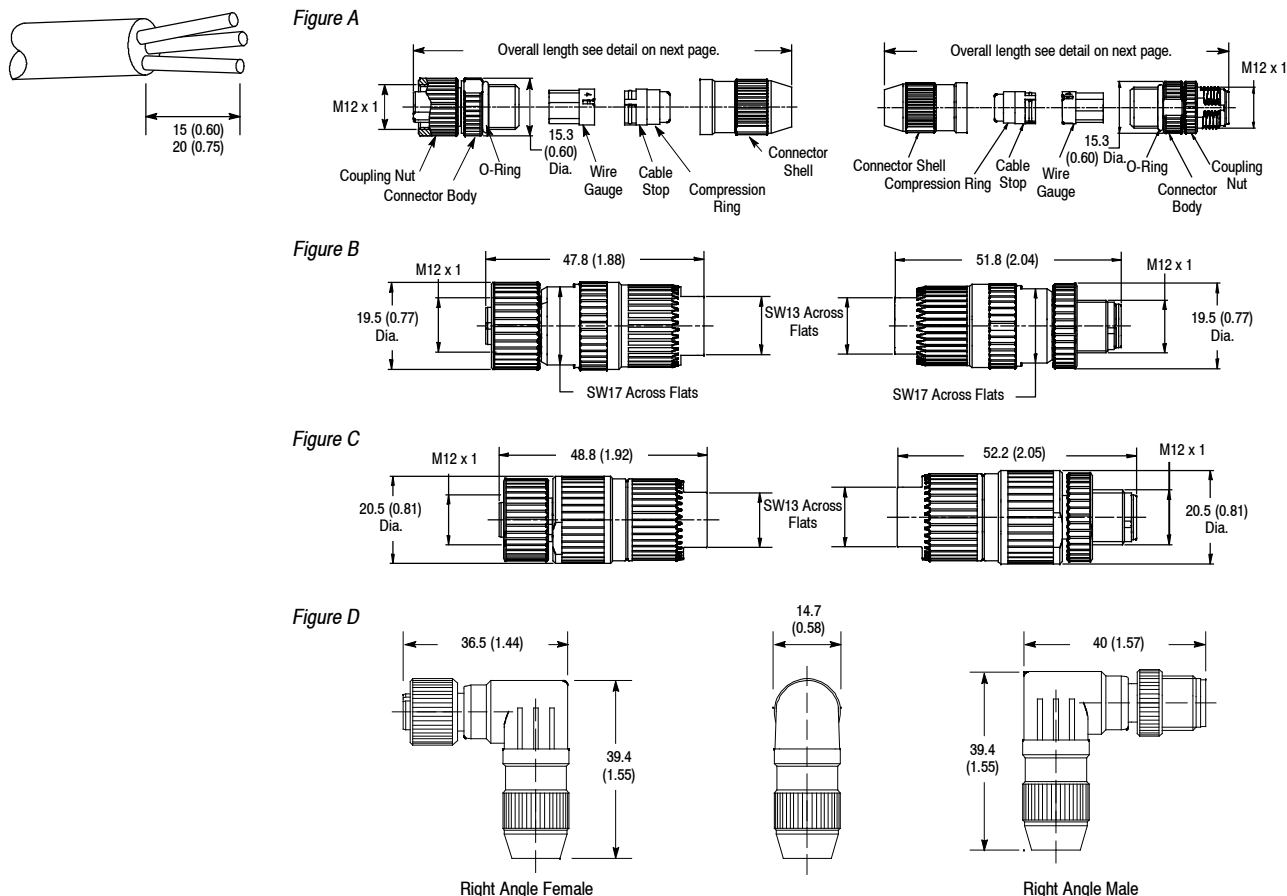
### Features

- Field installable with no hand tools needed
- 4-pin DC micro style
- Straight or right angle, male or female
- Allows easy modification of existing cable installations
- Insulation displacement technology for secure and reliable installation
- Metal body unit excellent in shielding applications

### Specifications

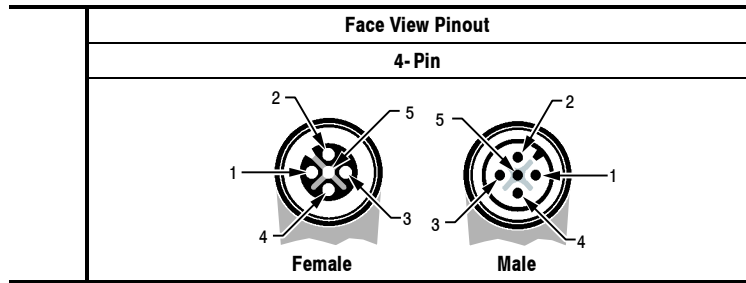
| Mechanical                       |                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|
| Coupling Nut                     | Zinc die-cast                                                                                                |
| Connector Shell Material         | Zinc die-cast or polyamide                                                                                   |
| Contacts                         | Gold-plated palladium nickel                                                                                 |
| Maximum IDC Installations        | 10                                                                                                           |
| Conductor Outside Diameter       | 26-22 AWG-20 AWG: 1.0...1.6 mm (0.039...0.063 in.)<br>24-22 AWG, 22-18 AWG: 1.6...2.0 mm (0.063...0.079 in.) |
| Electrical                       |                                                                                                              |
| Assembly Rating                  | 32V, 4 A; 50V, 6 A                                                                                           |
| Environmental                    |                                                                                                              |
| Enclosure Type Rating            | IP67                                                                                                         |
| Operating Temperature [C (F)]    | -25...85° (-13...185°)                                                                                       |
| Installation Temperature [C (F)] | -5...50° (23...185°)                                                                                         |

### Approximate Dimensions [mm (in.)]



Dimensions are approximate. Illustrations are not drawn to scale.

## Pinout



## Product Selection

### IDC Field Attachables

| Pin Count | Connector Body                    | Dimensions   | Cable Jacket Diameter [mm (in.)] | Wire Size   | Assembly Rating | Cat. No.           |                    |                    |                    |
|-----------|-----------------------------------|--------------|----------------------------------|-------------|-----------------|--------------------|--------------------|--------------------|--------------------|
|           |                                   |              |                                  |             |                 | Straight Female    | Straight Male      | Right Angle Female | Right Angle Male   |
| 4-Pin     | Polyamide Small body unshielded   | Figure A & D | 4.0...5.1 (0.16...0.20)          | 26...22 AWG | 32V 4 A         | <b>889D-F4DC-H</b> | <b>889D-M4DC-H</b> | <b>889D-R4DC-H</b> | <b>889D-E4DC-H</b> |
|           | Zinc die-cast Large body shielded | Figure B     | 7.0...8.8 (0.28...0.35)          | 24...22 AWG | 32V 4 A         | 889D-F4DC-SH       | 889D-M4DC-SH       | —                  | —                  |
|           | Polyamide Large body unshielded   | Figure C     | 5.5...8.0 (0.22...0.31)          | 22...18 AWG | 50V 6 A         | 889D-F4CE-H        | 889D-M4CE-H        | —                  | —                  |

AC Micro Style



3-Pin AC Micro Cordset

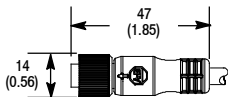
Features

- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Heavy-duty re-inforcing braiding can be used as a grounded shield to reduce noise
- Ratcheting coupling nut for vibration resistance

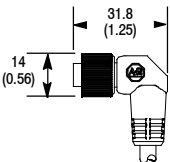
Specifications

|                               |                                                                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                                                                  |
| <b>Mechanical</b>             |                                                                                                                                                                                  |
| Coupling Nut                  | Epoxy-coated zinc                                                                                                                                                                |
| Connector                     | Molded oil-resistant polyurethane                                                                                                                                                |
| Contacts                      | Gold-plated brass                                                                                                                                                                |
| Cable                         | Oil-resistant yellow PVC jacket, 18 or 22 AWG conductors, 300V; UL Recognized and CSA Certified                                                                                  |
| Bend Radius                   | 10 x diameter, min.                                                                                                                                                              |
| Cable Diameter                | 3/c (22 AWG) = 6.7 mm (0.26 in.)<br>3/c (18 AWG) = 6.7 mm (0.26 in.)<br>4/c (18 AWG) = 6.7 mm (0.26 in.)<br>5/c (18 AWG) = 6.7 mm (0.26 in.)<br>6/c (22 AWG) = 6.7 mm (0.26 in.) |
| Braiding                      | Shield aluminum mylar stranding 26 x #36 (AWG) (Braided cable models only)                                                                                                       |
| Cable Rating                  | UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant                                                                                      |
| Assembly Rating               | 250V, 4 A                                                                                                                                                                        |
| <b>Environmental</b>          |                                                                                                                                                                                  |
| Enclosure Type Rating         | IP67, NEMA 6P, 1200 psi (8270 kPa) washdown                                                                                                                                      |
| Operating Temperature [C (F)] | -20...+105 ° (-4...+221 °)                                                                                                                                                       |

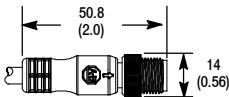
Approximate Dimensions [mm (in.)]



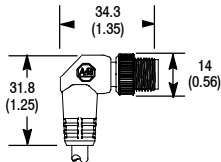
Straight Female



Right Angle Female

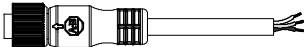


Straight Male

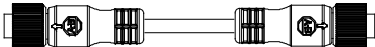


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset



Example of Patchcord

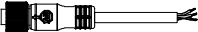
## Cordsets &amp; Patchcords, AC Micro Style

18 or 22 AWG, PVC

## Pinout and Color Code

| Color Code | Face View Pinout                                                                            |                                                                                           |                                                                                             |                                                                                           |                                                                                             |                                                                                             |                                                                                               |                                                                                             |
|------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|            | 3-Pin                                                                                       |                                                                                           | 4-Pin                                                                                       |                                                                                           | 5-Pin                                                                                       |                                                                                             | 6-Pin                                                                                         |                                                                                             |
|            | <br>Female | <br>Male | <br>Female | <br>Male | <br>Female | <br>Male | <br>Female | <br>Male |
| A          | 1 Green (GND)<br>2 Red/Black Tr.<br>3 Red/White Tr.                                         |                                                                                           | 1 Red/Black Tr. 3 Red<br>2 Red/White Tr. 4 Green (GND)                                      |                                                                                           | 1 Red/White Tr. 4 Red/Yellow Tr.<br>2 Red 5 Red/Black Tr.<br>3 Green                        |                                                                                             | 1 Red/White Tr. 4 Red/Yellow Tr.<br>2 Red 5 Red/Black Tr.<br>3 Green 6 Red/Blue Tr.           |                                                                                             |

## Product Selection

Cordsets 

| Pin Count | Assembly Rating           | Color Code | Cat. No.            |                     |                     |                  |
|-----------|---------------------------|------------|---------------------|---------------------|---------------------|------------------|
|           |                           |            | Straight Female     | Right Angle Female  | Straight Male       | Right Angle Male |
| 3-Pin     | Braided 22 AWG, 250V, 4 A | A          | <b>889R-F3ECA-❶</b> | <b>889R-R3ECA-❶</b> | 889R-M3ECA-❶        | 889R-E3ECA-❶     |
|           | 18 AWG, 250V, 4 A         |            | <b>889R-F3AEA-❶</b> | <b>889R-R3AEA-❶</b> | <b>889R-M3AEA-❶</b> | 889R-E3AEA-❶     |
| 4-Pin     | Braided 22 AWG, 250V, 4 A |            | 889R-F4ECA-❶        | 889R-R4ECA-❶        | 889R-M4ECA-❶        | 889R-E4ECA-❶     |
|           | 18 AWG, 250V, 4 A         |            | <b>889R-F4AEA-❶</b> | <b>889R-R4AEA-❶</b> | 889R-M4AEA-❶        | 889R-E4AEA-❶     |
| 5-Pin     | Braided 22 AWG, 250V, 4 A |            | 889R-F5ECA-❶        | 889R-R5ECA-❶        | 889R-M5ECA-❶        | 889R-E5ECA-❶     |
|           | 18 AWG, 250V, 4 A         |            | <b>889R-F5AEA-❶</b> | 889R-R5AEA-❶        | 889R-M5AEA-❶        | 889R-E5AEA-❶     |
| 6-Pin     | Braided 22 AWG, 250V, 4 A |            | <b>889R-F6ECA-❶</b> | <b>889R-R6ECA-❶</b> | 889R-M6ECA-❶        | 889R-E6ECA-❶     |

Patchcords 

| Pin Count | Assembly Rating           | Color Code | Cat. No.                         |                                     |                                     |                                        |
|-----------|---------------------------|------------|----------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
|           |                           |            | Straight Female<br>Straight Male | Straight Female<br>Right Angle Male | Right Angle<br>Female Straight Male | Right Angle<br>Female Right Angle Male |
| 3-Pin     | Braided 22 AWG, 250V, 4 A | A          | 889R-F3ECRM-❷                    | 889R-F3ECRE-❷                       | 889R-R3ECRM-❷                       | 889R-R3ECRE-❷                          |
|           | 18 AWG, 250V, 4 A         |            | <b>889R-F3AERM-❷</b>             | 889R-F3AERE-❷                       | 889R-R3AERM-❷                       | 889R-R3AERE-❷                          |
| 4-Pin     | Braided 22 AWG, 250V, 4 A |            | 889R-F4ECRM-❷                    | 889R-F4ECRE-❷                       | 889R-R4ECRM-❷                       | 889R-R4ECRE-❷                          |
|           | 18 AWG, 250V, 4 A         |            | 889R-F4AERM-❷                    | 889R-F4AERE-❷                       | 889R-R4AERM-❷                       | 889R-R4AERE-❷                          |
| 5-Pin     | Braided 22 AWG, 250V, 4 A |            | 889R-F5ECRM-❷                    | 889R-F5ECRE-❷                       | 889R-R5ECRM-❷                       | 889R-R5ECRE-❷                          |
|           | 18 AWG, 300V, 4 A         |            | 889R-F5AERM-❷                    | 889R-F5AERE-❷                       | 889R-R5AERM-❷                       | 889R-R5AERE-❷                          |
| 6-Pin     | Braided 22 AWG, 250V, 4 A |            | <b>889R-F6ECRM-❷</b>             | 889R-F6ECRE-❷                       | 889R-R6ECRM-❷                       | 889R-R6ECRE-❷                          |

❶ Replace symbol with 2 (2 m), 5 (5 m) or 10 (10 m) for standard cable lengths.

❷ Replace symbol with 0M3 (0.3 m), 1 (1 m), 2 (2 m), 3 (3 m), 5 (5 m) or 10 (10 m) for standard lengths.

**Note:** Stainless steel connectors may be ordered by adding an "S" to the cat. no. (e.g. 889RS-F6ECA-2).

## Cordsets &amp; Patchcords, AC Micro Style

18 AWG, ToughLink™ or ToughWeld™

## AC Micro Style



3-Pin AC Micro Cordset

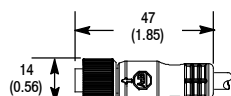
## Features

- ToughLink TPE jacket offers excellent oil, chemical, and abrasion resistance
- ToughWeld neoprene rubber jacket offers excellent weld slag resistance
- Ratcheting coupling nuts for vibration resistance

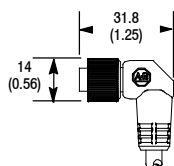
## Specifications

|                               |                                                                                      | ToughLink                                                      | ToughWeld |
|-------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------|
| Certifications                |                                                                                      | UL Recognized and CSA Certified                                |           |
| Mechanical                    |                                                                                      |                                                                |           |
| Coupling Nut                  | Epoxy-coated zinc                                                                    |                                                                |           |
| Connector                     | Molded oil-resistant polyurethane                                                    |                                                                |           |
| Contacts                      | Gold-plated brass                                                                    |                                                                |           |
| Cable                         | Yellow TPE jacket, 18 AWG stranded copper, 300V                                      | Yellow CPE jacket, 18 AWG stranded copper, 300V                |           |
| Bend Radius                   | 10 x diameter, min.                                                                  |                                                                |           |
| Cable Diameter                | 3-pin: 8.64 mm (0.34 in.)<br>4-pin: 9.40 mm (0.37 in.)<br>5-pin: 10.16 mm (0.40 in.) | 7.87 mm (0.31 in.)<br>8.64 mm (0.34 in.)<br>9.14 mm (0.36 in.) |           |
| Electrical                    |                                                                                      |                                                                |           |
| Cable Rating                  | UL AWM style 20328, 600V, VW-1, CSA AWM A/B I/II 600V FT1                            | UL SJOOW style CSA FT1, P-123-103, MSHA-300V                   |           |
| Assembly Rating               | 250V, 4 A                                                                            |                                                                |           |
| Environmental                 |                                                                                      |                                                                |           |
| Enclosure Type Rating         | IP67, NEMA 6P, 1200 psi (8270 kPa) washdown                                          |                                                                |           |
| Operating Temperature [C (F)] | -50...+105 ° (-58...+221 °)                                                          |                                                                |           |

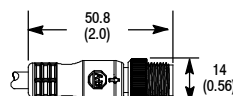
## Approximate Dimensions [mm (in.)]



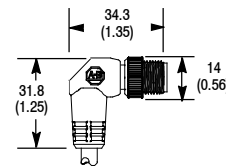
Straight Female



Right Angle Female

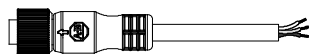


Straight Male

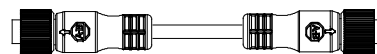


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset



Example of Patchcord

## Cordsets &amp; Patchcords, AC Micro Style

18 AWG, ToughLink™ or ToughWeld™

## Pinout and Color Code

| Color Code | Face View Pinout                            |      |                                                      |      |                                                                         |      |
|------------|---------------------------------------------|------|------------------------------------------------------|------|-------------------------------------------------------------------------|------|
|            | 3-Pin                                       |      | 4-Pin                                                |      | 5-Pin                                                                   |      |
|            | Female                                      | Male | Female                                               | Male | Female                                                                  | Male |
| A          | 1 Green<br>2 Red/Black Tr<br>3 Red/White Tr |      | 1 Red/Black Tr<br>2 Red/White Tr<br>3 Red<br>4 Green |      | 1 Red/White Tr<br>2 Red<br>3 Green<br>4 Red/Yellow Tr<br>5 Red/Black Tr |      |
| B          | 1 Green<br>2 Black<br>3 White               |      | 1 Black<br>2 White<br>3 Red<br>4 Green               |      | 1 White<br>2 Red<br>3 Green<br>4 Orange<br>5 Black                      |      |

## Product Selection

Cordsets 

| Pin Count | Material  | Assembly Rating   | Color Code | Cat. No.        |                    |               |                  |
|-----------|-----------|-------------------|------------|-----------------|--------------------|---------------|------------------|
|           |           |                   |            | Straight Female | Right Angle Female | Straight Male | Right Angle Male |
| 3-Pin     | ToughWeld | 18 AWG, 300V, 4 A | B          | 889R-F3WEC-❶    | 889R-R3WEC-❶       | 889R-M3WEC-❶  | 889R-E3WEC-❶     |
| 4-Pin     | ToughWeld | 18 AWG, 300V, 4 A | B          | 889R-F4WEC-❶    | 889R-R4WEC-❶       | 889R-M4WEC-❶  | 889R-E4WEC-❶     |
| 5-Pin     | ToughWeld | 18 AWG, 300V, 4 A | B          | 889R-F5WEC-❶    | 889R-R5WEC-❶       | 889R-M5WEC-❶  | 889R-E5WEC-❶     |
| 3-Pin     | ToughLink | 18 AWG, 300V, 4 A | A          | 889R-F3HEA-❶    | 889R-R3HEA-❶       | 889R-M3HEA-❶  | 889R-E3HEA-❶     |
| 4-Pin     | ToughLink | 18 AWG, 300V, 4 A | A          | 889R-F4HEA-❶    | 889R-R4HEA-❶       | 889R-M4HEA-❶  | 889R-E4HEA-❶     |
| 5-Pin     | ToughLink | 18 AWG, 300V, 4 A | A          | 889R-F5HEA-❶    | 889R-R5HEA-❶       | 889R-M5HEA-❶  | 889R-E5HEA-❶     |

Patchcords 

| Pin Count | Material  | Assembly Rating   | Cat. No.                            |                                        |                                           |                                              |
|-----------|-----------|-------------------|-------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------------|
|           |           |                   | Straight Female...<br>Straight Male | Straight Female...<br>Right Angle Male | Right Angle<br>Female...<br>Straight Male | Right Angle<br>Female...<br>Right Angle Male |
| 3-Pin     | ToughWeld | 18 AWG, 300V, 4 A | 889R-F3WERM-❷                       | 889R-F3WERE-❷                          | 889R-R3WERM-❷                             | 889R-R3WERE-❷                                |
| 4-Pin     | ToughWeld | 18 AWG, 300V, 4 A | 889R-F4WERM-❷                       | 889R-F4WERE-❷                          | 889R-R4WERM-❷                             | 889R-R4WERE-❷                                |
| 5-Pin     | ToughWeld | 18 AWG, 300V, 4 A | 889R-F5WERM-❷                       | 889R-F5WERE-❷                          | 889R-R5WERM-❷                             | 889R-R5WERE-❷                                |
| 3-Pin     | ToughLink | 18 AWG, 300V, 4 A | 889R-F3HERM-❷                       | 889R-F3HERE-❷                          | 889R-R3HERM-❷                             | 889R-R3HERE-❷                                |
| 4-Pin     | ToughLink | 18 AWG, 300V, 4 A | 889R-F4HERM-❷                       | 889R-F4HERE-❷                          | 889R-R4HERM-❷                             | 889R-R4HERE-❷                                |
| 5-Pin     | ToughLink | 18 AWG, 300V, 4 A | 889R-F5HERM-❷                       | 889R-F5HERE-❷                          | 889R-R5HERM-❷                             | 889R-R5HERE-❷                                |

❶ Replace symbol with 2 (2 m), 5 (5 m) or 10 (10 m) for standard cable lengths.

❷ Replace symbol with 0M3 (0.3 m), 1 (1 m), 2 (2 m), 3 (3 m), 5 (5 m), or 10 (10 m) for standard lengths.

# AC Micro Style



AC Micro Male Receptacle

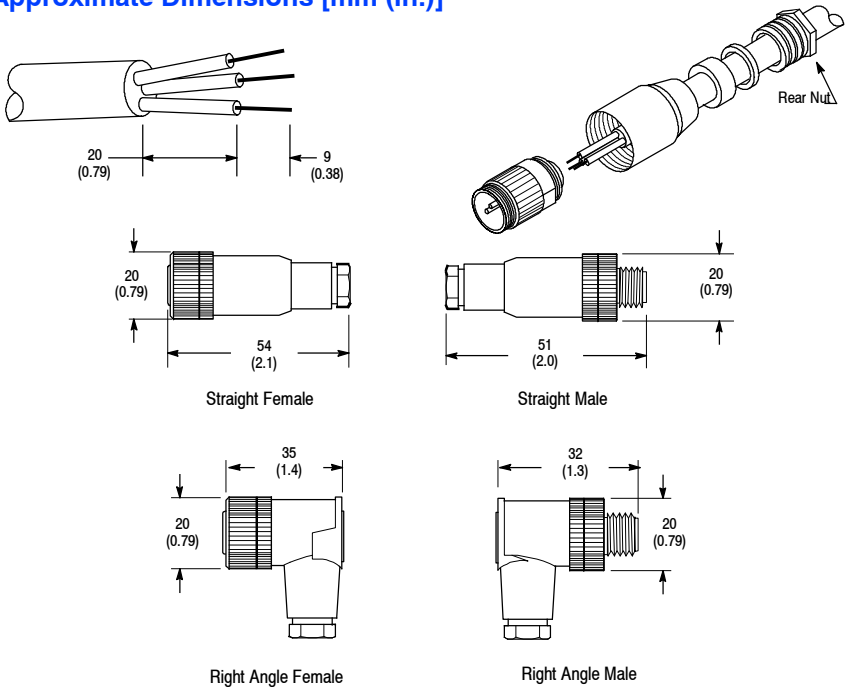
## Specifications

| Mechanical                    |                                |
|-------------------------------|--------------------------------|
| Coupling Nut                  | Nickel-plated brass            |
| Connector Insert Material     | Nylon                          |
| Contacts                      | Gold-plated palladium/nickel   |
| Wire Size, Max.               | 18 AWG (0.75 mm <sup>2</sup> ) |
| Environmental                 |                                |
| Enclosure Type Rating         | IP67 (IEC 529); NEMA 6P        |
| Operating Temperature [C (F)] | -40...+90° (-40...+194°)       |

## Features

- Field installable
- 3-pin AC micro style
- Straight or right angle
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations

## Approximate Dimensions [mm (in.)]



Dimensions are approximate. Illustrations are not drawn to scale.

### Pinout and Color Code

| Color Code | Face View Pinout                                                                                |                                                                                               |
|------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|            | 3-Pin                                                                                           |                                                                                               |
|            |  <p>Female</p> |  <p>Male</p> |
| A          | 1 Green<br>2 Red/Black Tr<br>3 Red/White Tr                                                     |                                                                                               |

### Product Selection

Terminal Chambers 

| Style       | Cable Jacket Diameter [mm (in.)] | Wire Size, Max.                   | Cat. No.           |                     |
|-------------|----------------------------------|-----------------------------------|--------------------|---------------------|
|             |                                  |                                   | Female             | Male                |
| Straight    | 4.0...6.0 (0.16...0.24)          | 18 AWG<br>(0.75 mm <sup>2</sup> ) | <b>871A-TS3-R</b>  | <b>871A-TS3-RM</b>  |
| Right Angle |                                  |                                   | 871A-TR3-R         | 871A-TR3-RM         |
| Straight    | 6.0...8.0 (0.24...0.32)          | 18 AWG<br>(0.75 mm <sup>2</sup> ) | <b>871A-TS3-R1</b> | <b>871A-TS3-RM1</b> |
| Right Angle |                                  |                                   | 871A-TR3-R1        | 871A-TR3-RM1        |

**Note:** Stainless steel coupling nuts available, add "S" to cat. no. (e.g., 871AS-TS3-R).

# Cordsets & Patchcords, Pico Style

24 AWG, PVC, PUR, TPE, or Shielded, Screw-On and Snap-On

## Pico Style



Pico Screw-On Style

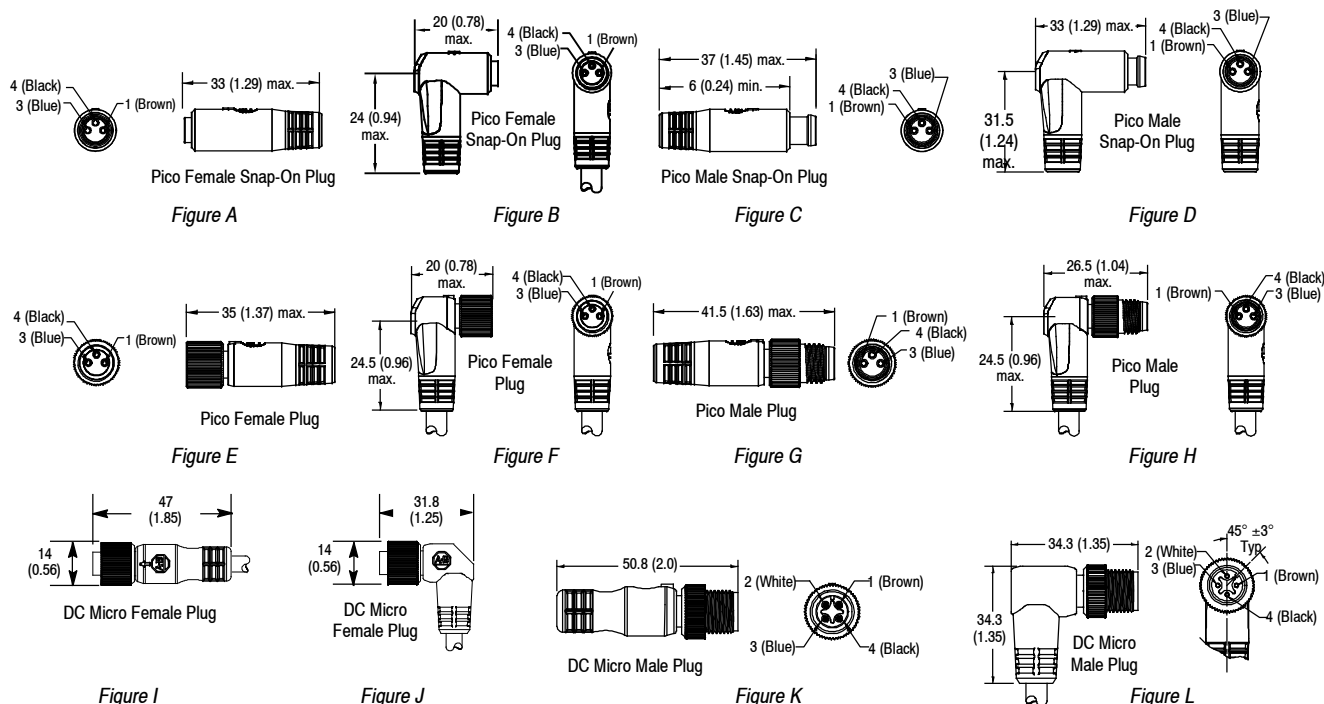
### Features

- Highly visible yellow PVC jacket offers good oil and chemical resistance
- LED versions provide power and output indication for either PNP or NPN devices
- Snap-on coupling style for quick and simple connection

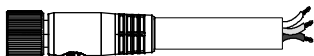
### Specifications

|                               |                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                                                                                                         |
| <b>Mechanical</b>             |                                                                                                                                                                                                                         |
| Coupling Nut Material         | Nickel-plated brass                                                                                                                                                                                                     |
| Connector Material            | Molded, oil-resistant, PUR                                                                                                                                                                                              |
| Contacts                      | Gold-plated brass                                                                                                                                                                                                       |
| Cable                         | Oil-, water-, and UV-resistant, 24 AWG conductors, 300V, 4 A, AWM                                                                                                                                                       |
| Cable Diameter                | 3/c PVC = 4.6 mm (0.18 in.)<br>3/c Foil Shield = 4.8 mm (0.189 in.)<br>3/c TPE or PUR = 4.3 mm (0.17 in.)<br>4/c PVC = 4.75 mm (0.18 in.)<br>4/c Foil Shield = 5.0 mm (0.197 in.)<br>4/c PUR or TPE = 4.6 mm (0.18 in.) |
| Bend Radius                   | 10x diameter, min.                                                                                                                                                                                                      |
| <b>Electrical</b>             |                                                                                                                                                                                                                         |
| Cable Rating                  | PVC: UL AWM style 2661 VW-1 105°C 300V, CSA AWM A/B I/II 105°C 300V FT1<br>PUR: UL AWM style 20233, 21198 or 10493 80°C 300V FT2<br>TPE: UL AWM style 20327 VW-1 105°C 300V FT1                                         |
| Assembly Rating               | 60V AC/75V DC, 4 A                                                                                                                                                                                                      |
| <b>Environmental</b>          |                                                                                                                                                                                                                         |
| Enclosure Type Rating         | Screw-type: IP67, 1200 psi (8270 kPa) washdown<br>Snap-on type: IP65                                                                                                                                                    |
| Operating Temperature [C (F)] | -20...+105° (-4...+221°)                                                                                                                                                                                                |

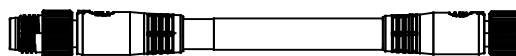
### Approximate Dimensions [mm (in.)]



Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset

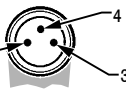
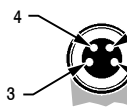
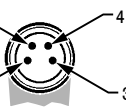


Example of Patchcord

## Cordsets &amp; Patchcords, Pico Style

24 AWG, PVC, PUR, TPE, or Shielded, Screw-On and Snap-On

## Pinout and Color Code

| Face View Pinout                                                                  |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 3-Pin                                                                             |                                                                                   | 4-Pin                                                                             |                                                                                   |
|  |  |  |  |
| Female<br>1 Brown<br>2 NA<br>3 Blue<br>4 Black                                    |                                                                                   | Female<br>1 Brown<br>2 White<br>3 Blue<br>4 Black                                 |                                                                                   |
| Male<br>1 Brown<br>2 NA<br>3 Blue<br>4 Black                                      |                                                                                   | Male<br>1 Brown<br>2 White<br>3 Blue<br>4 Black                                   |                                                                                   |

## Product Selection

Snap-On Cordsets 

| Pin Count | Jacket Material <sup>①</sup> | Cat. No.                     |                                 | Cat. No.                   |                               |
|-----------|------------------------------|------------------------------|---------------------------------|----------------------------|-------------------------------|
|           |                              | Straight Female <sup>②</sup> | Right Angle Female <sup>②</sup> | Straight Male <sup>②</sup> | Right Angle Male <sup>②</sup> |
| 3-Pin     | Yellow PUR Flex <sup>③</sup> | 889P-S3UB- <sup>④</sup>      | 889P-Z3UB- <sup>④</sup>         | 889P-G3UB- <sup>④</sup>    | 889P-H3UB- <sup>④</sup>       |
| 4-Pin     |                              | 889P-S4UB- <sup>④</sup>      | 889P-Z4UB- <sup>④</sup>         | 889P-G4UB- <sup>④</sup>    | 889P-H4UB- <sup>④</sup>       |

Screw-On Cordsets 

| Pin Count | Jacket Material <sup>②</sup> | Cat. No.                     |                                 | Cat. No.                   |                               |
|-----------|------------------------------|------------------------------|---------------------------------|----------------------------|-------------------------------|
|           |                              | Straight Female <sup>②</sup> | Right Angle Female <sup>②</sup> | Straight Male <sup>②</sup> | Right Angle Male <sup>②</sup> |
| 3-Pin     | Yellow PVC <sup>②</sup>      | 889P-F3AB- <sup>④</sup>      | 889P-R3AB- <sup>④</sup>         | 889P-M3AB- <sup>④</sup>    | 889P-E3AB- <sup>④</sup>       |
| 4-Pin     |                              | 889P-F4AB- <sup>④</sup>      | 889P-R4AB- <sup>④</sup>         | 889P-M4AB- <sup>④</sup>    | 889P-E4AB- <sup>④</sup>       |

Screw-On Patchcords 

| Pin Count                              | Jacket Material            | Cat. No.                                         |                                                     | Cat. No.                                            |                                                        |
|----------------------------------------|----------------------------|--------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|
|                                        |                            | Straight Female...<br>Straight Male <sup>⑤</sup> | Straight Female...<br>Right Angle Male <sup>⑤</sup> | Right Angle Female...<br>Straight Male <sup>⑤</sup> | Right Angle Female...<br>Right Angle Male <sup>⑤</sup> |
| Male: Pico 3-Pin<br>Female: Pico 3-Pin | Yellow AB PVC <sup>⑥</sup> | 889P-F3ABPM- <sup>⑤</sup>                        | 889P-F3ABPE- <sup>⑤</sup>                           | 889P-R3ABPM- <sup>⑤</sup>                           | 889P-R3ABPE- <sup>⑤</sup>                              |
| Male: Pico 3-Pin<br>Female: Pico 4-Pin |                            | 889P-F4ABP3M- <sup>⑤</sup>                       | 889P-F4ABP3E- <sup>⑤</sup>                          | 889P-R4ABP3M- <sup>⑤</sup>                          | 889P-R4ABP3E- <sup>⑤</sup>                             |
| Male: Pico 4-Pin<br>Female: Pico 4-Pin |                            | 889P-F4ABPM- <sup>⑤</sup>                        | 889P-F4ABPE- <sup>⑤</sup>                           | 889P-R4ABPM- <sup>⑤</sup>                           | 889P-R4ABPE- <sup>⑤</sup>                              |

① Replace **UB** with **JB** for black Halogen free PUR.② Replace **AB** with **BB** for black PVC, **FB** for yellow PVC/foil shield and drain; **UB** for yellow PUR, flex cable, **JB** for black Halogen-free PUR, **HB** for yellow TPE flex.③ Replace **AB** with **BB** for black PVC, **UB** for yellow PUR, flex cable, **JB** for black Halogen-free PUR, **HB** for yellow TPE flex cable.

④ Replace symbol with 2 (2 m), 5 (5 m) or 10 (10 m) for standard cable lengths.

⑤ Replace symbol with 0M3 (0.3 m), 1 (1 m), 2 (2 m), 3 (3 m), 5 (5 m) or 10 (10 m) for standard cable lengths.

Pico Style



3-Pin Pico Female

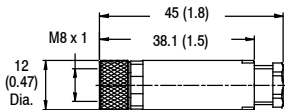
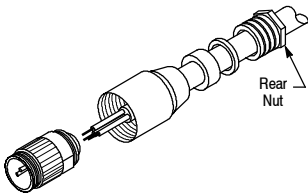
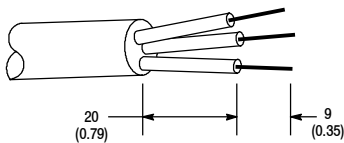
Features

- Field installable
- 3- or 4-pin DC micro style
- Straight connectors
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations

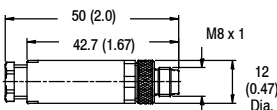
Specifications

|                               |                                    |
|-------------------------------|------------------------------------|
| Certifications                | UL Recognized and CSA Certified    |
| <b>Mechanical</b>             |                                    |
| Coupling Nut                  | Nickel-plated brass                |
| Connector Shell Material      | PBT                                |
| Contacts                      | Gold-plated palladium nickel       |
| Cable                         | 20 AWG (0.5 mm <sup>2</sup> ) max. |
| <b>Electrical</b>             |                                    |
| Assembly Rating               | 3- or 4-pin: 60V, 4 A              |
| <b>Environmental</b>          |                                    |
| Enclosure Type Rating         | IP67                               |
| Operating Temperature [C (F)] | -40...+88° (-40...+185°)           |

Approximate Dimensions [mm (in.)]



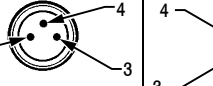
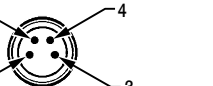
Right Angle Female



Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.

## Pinout and Color Code

| Color Code | Face View Pinout                                                                  |                                                                                   |                                                                                   |                                                                                    |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|            | 4- Pin                                                                            |                                                                                   | 5- Pin                                                                            |                                                                                    |
|            |  |  |  |  |
| A          | 1 Brown<br>3 Blue                                                                 | 4 Black                                                                           | 1 Brown<br>2 White                                                                | 3 Blue<br>4 Black                                                                  |

## Product Selection

Terminal Chambers 

| Pin Count | Cable Jacket Diameter [mm (in.)] | Assembly Rating | Rear Nut Thread Size | Cat. No.        |               |
|-----------|----------------------------------|-----------------|----------------------|-----------------|---------------|
|           |                                  |                 |                      | Straight Female | Straight Male |
| 3-Pin     | 3.5...5.0 (0.14...0.20)          | 60V, 4 A        | PG 7                 | 871A-TS3-P      | 871A-TS3-PM   |
| 4-Pin     |                                  |                 |                      | 871A-TS4-P      | 871A-TS4-PM   |

Pico Style



Pico Style Male

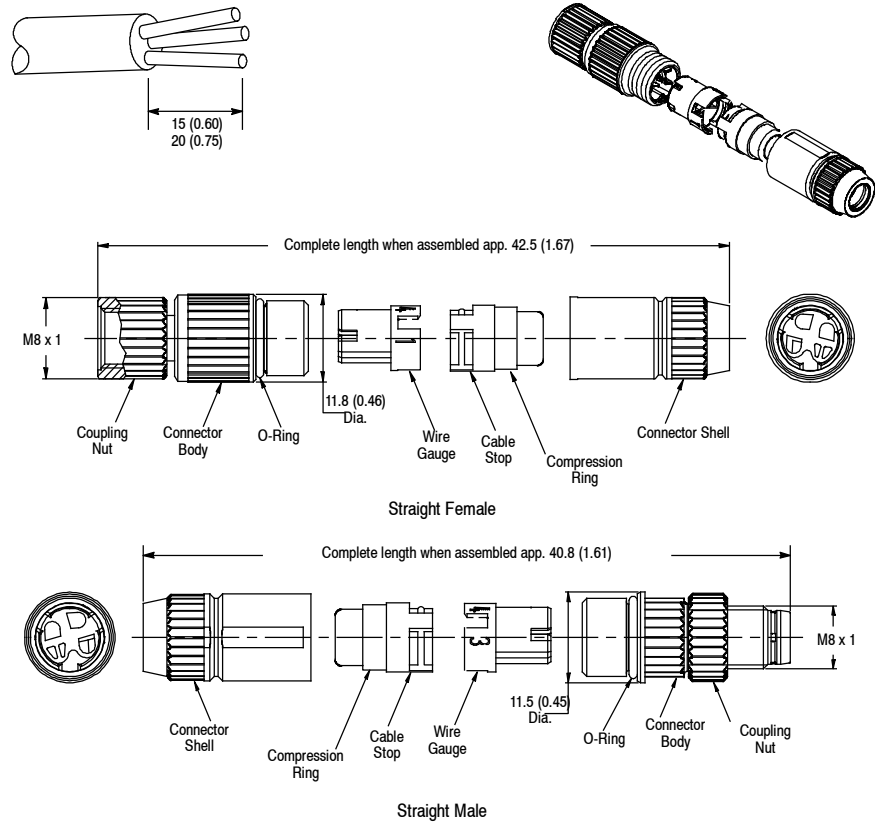
Features

- Field installable with no hand tools needed
- 3- or 4-pin pico style
- Straight, male or female
- Allows easy modification of existing cable installations
- Insulation displacement technology for secure and reliable installation

Specifications

| Mechanical                       |                                                        |
|----------------------------------|--------------------------------------------------------|
| Coupling Nut                     | Nickel-plated brass                                    |
| Connector Shell Material         | Nickel-plated brass                                    |
| Connector Body Material          | HytreI Htr 8068                                        |
| Field Contacts                   | Gold-plated palladium nickel                           |
| IDC Installations, Max.          | 10                                                     |
| Outside Diameter Conductor       | 1.0...1.6 mm (0.04...0.063 in.)                        |
| Wire Size                        | 22 AWG...26 AWG (min. individual strand size = 38 AWG) |
| Environmental                    |                                                        |
| Enclosure Type Rating            | IP67; NEMA 6P                                          |
| Operating Temperature [C (F)]    | -25...+85° (-13...+185°)                               |
| Installation Temperature [C (F)] | -5...+50° (23...+122°)                                 |

Approximate Dimensions [mm (in.)]



Dimensions are approximate. Illustrations are not drawn to scale.

Pinout and Color Code

| Color Code | Face View Pinout                                                                            |                                                                                           |                                                                                             |                                                                                            |
|------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|            | 3-Pin                                                                                       |                                                                                           | 4-Pin                                                                                       |                                                                                            |
|            | <br>Female | <br>Male | <br>Female | <br>Male |
| A          | 1 Brown<br>3 Blue                                                                           | 4 Black                                                                                   | 1 Brown<br>2 White                                                                          | 3 Blue<br>4 Black                                                                          |

Product Selection

Terminal Chambers 

| Style    | Cable Jacket Diameter [mm (in.)] | Rating     | Cat. No.           |                    |
|----------|----------------------------------|------------|--------------------|--------------------|
|          |                                  |            | Female             | Male               |
| Straight | 4.0...5.1 (0.16...0.20)          | 32V<br>3 A | <b>889P-F3DC-H</b> | <b>889P-M3DC-H</b> |
|          |                                  |            | 889P-F4DC-H        | 889P-M4DC-H        |

Patchcords



Patchcords, Multiple Style Connectors

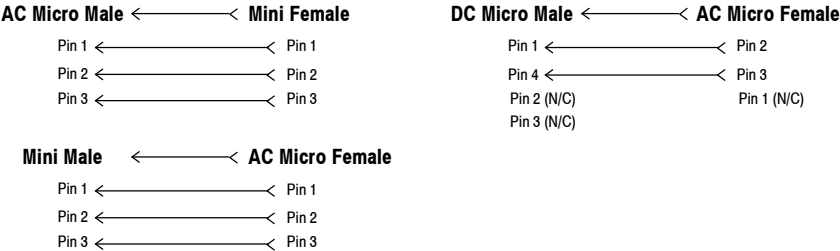
Features

- Convenient connection from AC micro to mini and AC micro to DC micro
- Highly visible yellow PVC jacket offers good oil- and chemical-resistance

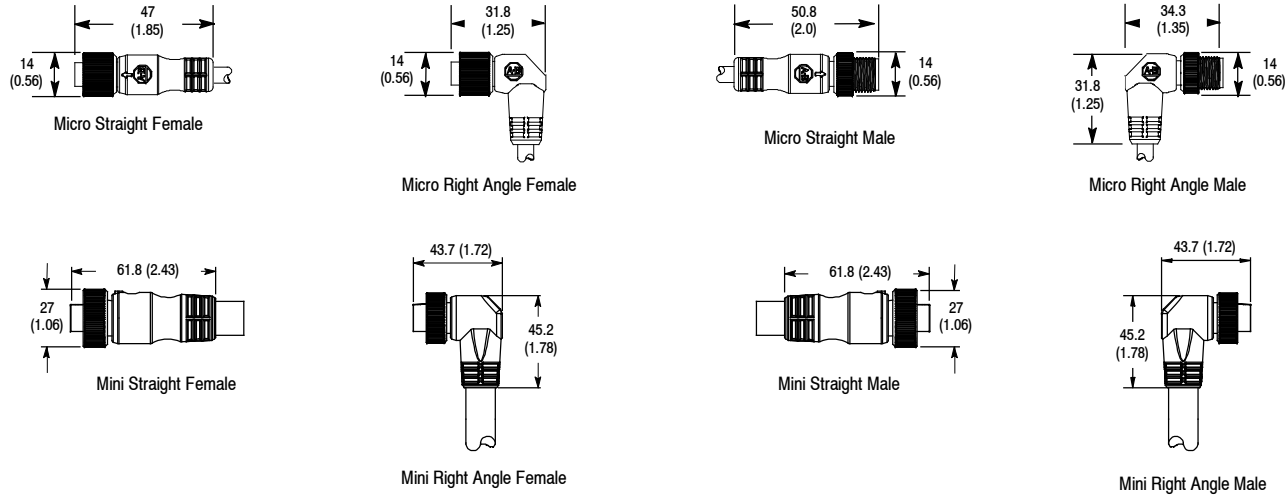
Specifications759

|                               |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                  |
| <b>Mechanical</b>             |                                                                                                  |
| Coupling Nut                  | Epoxy-coated zinc                                                                                |
| Material                      | Molded oil-resistant<br>Micro end: PUR<br>Mini end: TPE                                          |
| Contacts                      | Gold-plated brass                                                                                |
| Cable                         | Oil resistant PVC jacket, 18 AWG or 22 AWG conductors, 300V<br>UL Recognized and CSA Certified   |
| Bend Radius                   | 10x diameter, min.                                                                               |
| Cable Diameter                | 6.7 mm (0.26 in.)                                                                                |
| <b>Electrical</b>             |                                                                                                  |
| Cable Rating                  | UL AWM style 2661 VW-1 105°C 300V, CSA AWM A/B I/II 80°C 300V<br>FT1, UV oil and water resistant |
| Assembly Rating               | 250V, 4 A                                                                                        |
| <b>Environmental</b>          |                                                                                                  |
| Enclosure Type Rating         | IP67, NEMA 6P, 1200 psi (8270 kPa) washdown                                                      |
| Operating Temperature [C (F)] | -20...+105° (-4...+221°)                                                                         |

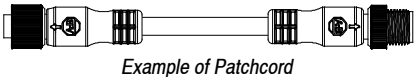
Wiring Diagrams



Approximate Dimensions [mm (in.)]

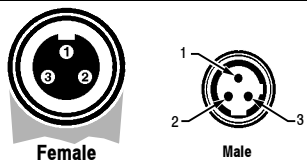
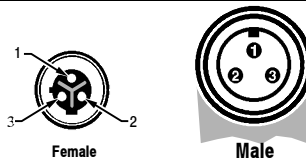
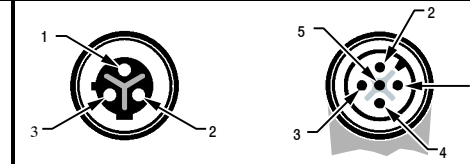


Dimensions are approximate. Illustrations are not drawn to scale.



Example of Patchcord

## Pinout and Color Code

| No. of Pins | Face View Pinout                                                                                     |                                                                                                      |                                                                                                       |
|-------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|             | 3-Pin Mini Female to<br>3-Pin AC Micro Male                                                          | 3-Pin AC Micro Female to<br>3-Pin Mini Male                                                          | 3-Pin AC Micro Female to<br>4-Pin DC Micro Male                                                       |
|             |  <p>Female Male</p> |  <p>Female Male</p> |  <p>Female Male</p> |
| Pinout      | A                                                                                                    | B                                                                                                    | C                                                                                                     |

## Product Selection

### Patchcords

| Pinout | Connector Style                                 | Wire Size,<br>AWG | Cat. No.                            |                                        |                                        |                                           |
|--------|-------------------------------------------------|-------------------|-------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------------|
|        |                                                 |                   | Straight Female...<br>Straight Male | Straight Female...<br>Right Angle Male | Right Angle Female...<br>Straight Male | Right Angle Female...<br>Right Angle Male |
| A      | 3-Pin Mini Female to<br>3-Pin AC Micro Male     | 18                | 889N-F3AERM-❶                       | 889N-F3AERE-❶                          | 889N-R3AERM-❶                          | 889N-R3AERE-❶                             |
| B      | 3-Pin AC Micro Female to<br>3-Pin Mini Male     | 18                | 889R-F3AENM-❶                       | 889R-F3AENE-❶                          | 889R-R3AENM-❶                          | 889R-R3AENE-❶                             |
| C      | 3-Pin AC Micro Female to<br>4-Pin DC Micro Male | 18                | 889R-F3AEDM-❶                       | 889R-F3AEDE-❶                          | 889R-R3AEDM-❶                          | 889R-R3AEDE-❶                             |
| C      | 3-Pin AC Micro Female to<br>4-Pin DC Micro Male | 22                | 889R-F3ACDM-❶                       | 889R-F3ACDE-❶                          | 889R-R3ACDM-❶                          | 889R-R3ACDE-❶                             |

❶ Replace symbol with 2 (2 m), 5 (5 m) or 10 (10 m) for standard cable lengths.

# Cordsets & Patchcords, Combination Connectors

24 AWG, PVC, PUR, or TPE, Screw-On and Snap-On, Pico to Micro

## Pico Style



Pico to Micro Screw-On Style

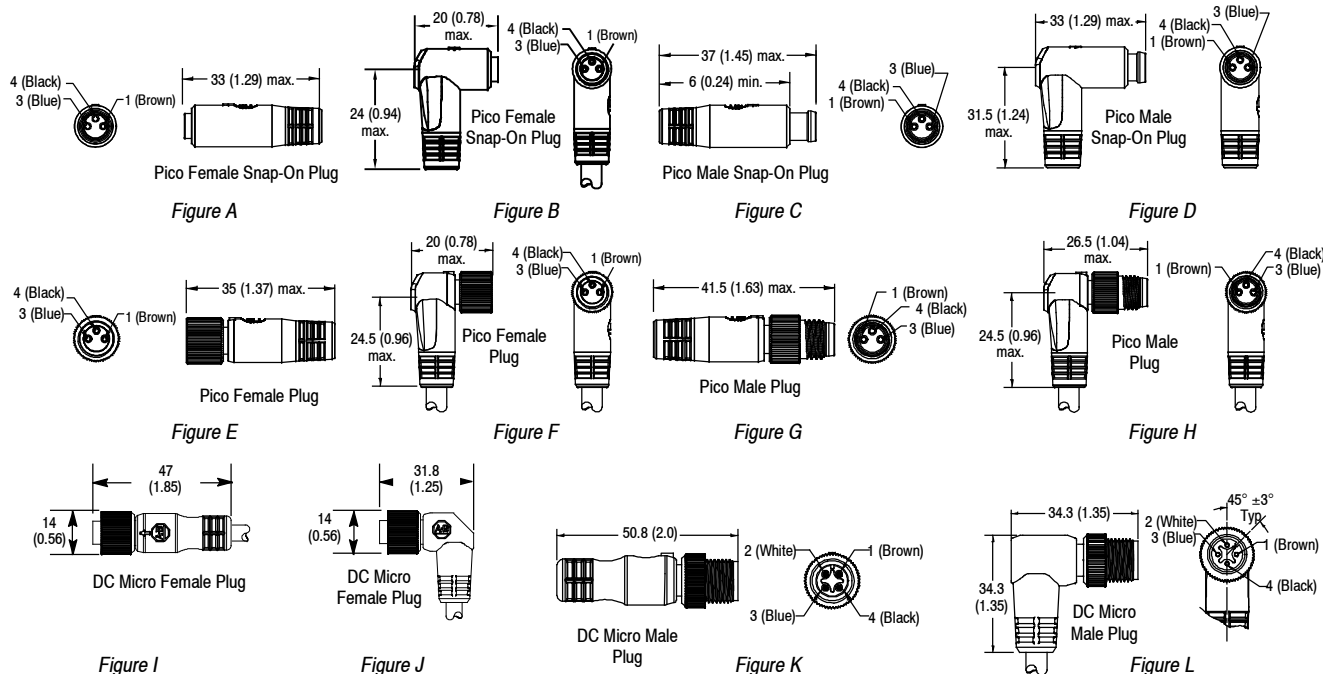
### Features

- Highly visible yellow PVC jacket offers good oil and chemical resistance
- LED versions provide power and output indication for either PNP or NPN devices
- Snap-on coupling style for quick and simple connection
- “-V” models allow wiring of devices using pin 2 for output into standard single-point distribution boxes and IP67 I/O

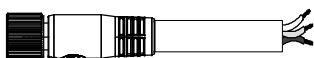
### Specifications760

|                               |                                                                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications                | UL Recognized and CSA Certified                                                                                                                                                 |
| <b>Mechanical</b>             |                                                                                                                                                                                 |
| Coupling Nut Material         | Nickel-plated brass                                                                                                                                                             |
| Connector Material            | Molded, oil-resistant, PUR                                                                                                                                                      |
| Contacts                      | Gold-plated brass                                                                                                                                                               |
| Cable                         | Oil-, water-, and UV-resistant, 24 AWG conductors, 300V, 4 A, AWM                                                                                                               |
| Cable Diameter                | 3/c PVC = 4.6 mm (0.18 in.)<br>3/c Foil Shield = 4.8 mm (0.189 in.)<br>3/c TPE or PUR = 4.3 mm (0.17 in.)<br>4/c PVC = 5.0 mm (0.197 in.)<br>4/c PUR or TPE = 4.6 mm (0.18 in.) |
| Bend Radius                   | 10x diameter, min.                                                                                                                                                              |
| <b>Electrical</b>             |                                                                                                                                                                                 |
| Cable Rating                  | PVC: UL AWM style 2661 VW-1 105°C 300V, CSA AWM A/B I/II 105°C 300V FT1<br>PUR: UL AWM style 20233, 21198 or 10493 80°C 300V FT2<br>TPE: UL AWM style 20327 VW-1 105°C 300V FT1 |
| Assembly Rating               | 60V AC/75V DC, 4 A                                                                                                                                                              |
| <b>Environmental</b>          |                                                                                                                                                                                 |
| Enclosure Type Rating         | Screw-type: IP67, 1200 psi (8270 kPa) washdown<br>Snap-on type: IP65                                                                                                            |
| Operating Temperature [C (F)] | -20...+105° (-4...+221°)                                                                                                                                                        |

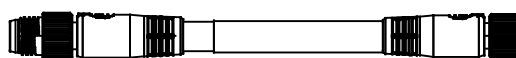
### Approximate Dimensions [mm (in.)]



Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset



Example of Patchcord

## Cordsets & Patchcords, Combination Connectors

24 AWG, Yellow PVC, PUR, or TPE, Screw-On and Snap-On, Pico to Micro

### Pinout and Color Code

| Face View Pinout                         |      |                                          |      |                                          |      |                                          |      |
|------------------------------------------|------|------------------------------------------|------|------------------------------------------|------|------------------------------------------|------|
| 3-Pin Female Pico to 4-Pin Male DC Micro |      | 4-Pin Female Pico to 4-Pin Male DC Micro |      | 4-Pin Female DC Micro to 3-Pin Male Pico |      | 4-Pin Female DC Micro to 4-Pin Male Pico |      |
|                                          |      |                                          |      |                                          |      |                                          |      |
| Female                                   | Male | Female                                   | Male | Female                                   | Male | Female                                   | Male |

### Product Selection

#### Snap-On Pico to Threaded Micro Cordsets

| Pin Count                               | Jacket Material  | Cat. No.                          |                                      | Cat. No.                             |                                         |
|-----------------------------------------|------------------|-----------------------------------|--------------------------------------|--------------------------------------|-----------------------------------------|
|                                         |                  | Straight Female to Straight Male① | Straight Female to Right Angle Male① | Right Angle Female to Straight Male① | Right Angle Female to Right Angle Male① |
| Male: Micro 4-Pin<br>Female: Pico 3-Pin | Yellow PUR Flex① | 889P-S3UBD4M-②                    | 889P-S3UBD4E-②                       | 889P-Z3UBD4M-②                       | 889P-Z3UBD4E-②                          |
| Male: Micro 4-Pin<br>Female: Pico 4-Pin |                  | 889P-S4UBDM-②                     | 889P-S4UBDE-②                        | 889P-Z4UBDM-②                        | 889P-Z4UBDE-②                           |
| Male: Micro 4-Pin<br>Female: Pico 4-Pin |                  | 889P-S4UBDM-V②                    | 889P-S4UBDE-V②                       | 889P-Z4UBDM-V②                       | 889P-Z4UBDE-V②                          |
| Male: Pico 3-Pin<br>Female: Micro 4-Pin |                  | 889D-F4UBP3G-②                    | 889D-F4UBP3H-②                       | 889D-R4UBP3G-②                       | 889D-R4UBP3H-②                          |
| Male: Pico 3-Pin<br>Female: Micro 4-Pin |                  | 889D-F4UBP3G-V②                   | 889D-F4UBP3H-V②                      | 889D-R4UBP3G-V②                      | 889D-R4UBP3H-V②                         |
| Male: Micro 4-Pin<br>Female: Pico 4-Pin |                  | 889D-F4UBPG-②                     | 889D-F4UBPH-②                        | 889D-R4UBPG-②                        | 889D-R4UBPH-②                           |

#### Threaded Pico to Threaded Micro Patchcords

| Pin Count                               | Jacket Material | Cat. No.                          |                                      | Cat. No.                             |                                         |
|-----------------------------------------|-----------------|-----------------------------------|--------------------------------------|--------------------------------------|-----------------------------------------|
|                                         |                 | Straight Female to Straight Male② | Straight Female to Right Angle Male② | Right Angle Female to Straight Male② | Right Angle Female to Right Angle Male② |
| Male: Micro 4-Pin<br>Female: Pico 3-Pin | Yellow PVC②     | 889P-F3ABD4M-③                    | 889P-F3ABD4E-③                       | 889P-R3D4M-③                         | 889P-R3ABD4E-③                          |
| Male: Micro 4-Pin<br>Female: Pico 4-Pin |                 | 889P-F4ABDM-③                     | 889P-F4ABDE-③                        | 889P-R4ABDM-③                        | 889P-R4ABDE-③                           |
| Male: Micro 4-Pin<br>Female: Pico 4-Pin |                 | 889P-F4ABDM-V③                    | 889P-F4ABDE-V③                       | 889P-R4ABDM-V③                       | 889P-R4ABDE-V③                          |
| Male: Pico 3-Pin<br>Female: Micro 4-Pin |                 | 889D-F4ABP3M-③                    | 889D-F4ABP3E-③                       | 889D-R4ABP3M-③                       | 889D-R4ABP3E-③                          |
| Male: Pico 3-Pin<br>Female: Micro 4-Pin |                 | 889D-F4ABP3M-V③                   | 889D-F4ABP3E-V③                      | 889D-R4ABP3M-V③                      | 889D-R4ABP3E-V③                         |
| Male: Pico 4-Pin<br>Female: Micro 4-Pin |                 | 889D-F4ABPM-③                     | 889D-F4ABPE-③                        | 889D-R4ABPM-③                        | 889D-R4ABPE-③                           |

① Replace **UB** with **JB** for black Halogen free PUR.

② Replace **AB** with **BB** for black PVC, **UB** for yellow PUR, flex cable, **JB** for black Halogen-free PUR, **HB** for yellow TPE flex cable.

③ Replace symbol with 2 (2 m), (5 m) or 10 (10 m) for standard cable lengths.

④ Replace symbol with 0M3 (0.3 m), 1 (1 m), 2 (2 m), 3 (3 m), 5 (5 m) or 10 (10 m) for standard cable lengths.

M23 Style



12-Pin M23 Cordset

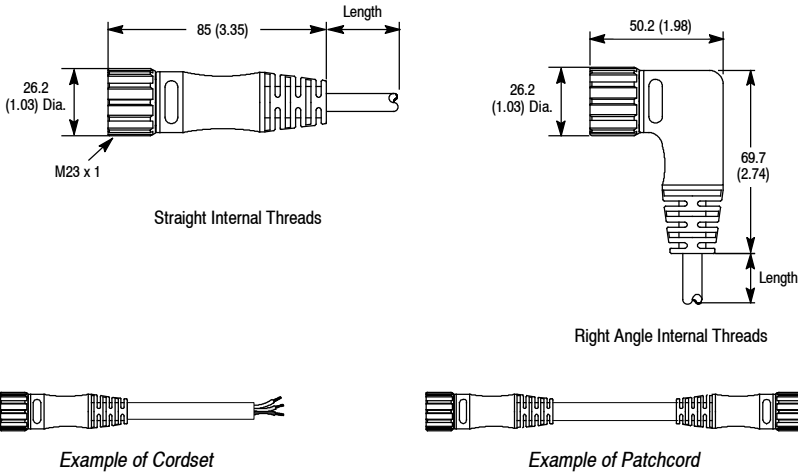
Features

- 12-pin configuration for SafeShield light curtains and other applications
- 12-pin/11-conductor on 19-pin for passive distribution and other box applications
- Subtle black or highly visible yellow PVC jacket offers good oil and chemical resistance

Specifications

| Mechanical                    |                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------|
| Coupling Nut                  | Nickel-plated brass                                                                        |
| Connector                     | Molded oil-resistant PUR                                                                   |
| Contacts                      | Gold over nickel-plated brass                                                              |
| Cable                         | Oil resistant yellow PVC jacket, 18 AWG conductors, 60V<br>UL Recognized and CSA Certified |
| Bend Radius                   | 10 x diameter, min.                                                                        |
| Cable Diameter                | 10 mm (0.41 in.)                                                                           |
| Electrical                    |                                                                                            |
| Cable Rating                  | 300V                                                                                       |
| Assembly Rating               | 9- & 12-pin: 300V, 4 A<br>11-pin: 63V, 6 A;<br>19-pin: 63V, 12 A                           |
| Environmental                 |                                                                                            |
| Enclosure Type Rating         | IP67, NEMA 6P, 1200 psi (8270 kPa) washdown                                                |
| Operating Temperature [C (F)] | -20...+80° (-4...+176°)                                                                    |

Approximate Dimensions [mm (in.)]



Dimensions are approximate. Illustrations are not drawn to scale.

## Pinout and Color Code

| Color Code | Face View Pinout                                                                                                                                                         |      |                                                                                                                                                                                                                                                                                                |      |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|            | 9-, 11-, or 12-Pin                                                                                                                                                       |      | 19-Pin                                                                                                                                                                                                                                                                                         |      |
|            | Female                                                                                                                                                                   | Male | Female                                                                                                                                                                                                                                                                                         | Male |
| A          | <b>9-Pin</b><br>1 Brown      5 NA      9 Pink<br>2 NA      6 Green      10 Red<br>3 Blue      7 Yellow      11 NA<br>4 White      8 Grey      12 Green/Yellow            |      | 1 Violet      7 Grey/Pink      13 Yellow/Brown<br>2 Red      8 White/Green      14 Brown/Green<br>3 Grey      9 White/Yellow      15 White<br>4 Red/Blue      10 White/Grey      16 Yellow<br>5 Green      11 Black      17 Pink<br>6 Blue      12 Green/Yellow      18 Grey/Brown<br>19 Brown |      |
| B          | <b>11-Pin</b><br>1 White      5 Pink      9 Blue<br>2 Green      6 Red      10 Blue<br>3 Yellow      7 Black      11 Brown<br>4 Grey      8 Violet      12 Green/Yellow  |      | —                                                                                                                                                                                                                                                                                              |      |
| C          | <b>12-Pin</b><br>1 Brown      5 Red      9 Black<br>2 Blue      6 Yellow      10 Violet<br>3 Grey      7 White      11 Grey/Pink<br>4 Pink      8 Red/Blue      12 Green |      | —                                                                                                                                                                                                                                                                                              |      |

## Product Selection

### Cordsets

| Pin Count | Color Code | Jacket Color | Assembly Rating  | Cat. No.              |                    |               |                  |
|-----------|------------|--------------|------------------|-----------------------|--------------------|---------------|------------------|
|           |            |              |                  | Straight Female       | Right Angle Female | Straight Male | Right Angle Male |
| 9-Pin     | A          | Yellow       | 18 AWG           | <b>889M-F12X9AE-❶</b> | 889M-R12X9AE-❶     | —             | —                |
| 11-Pin    | B          | Black        | 3/18 & 8/22 AWG  | 889M-F11RM-❶          | 889M-R11RM-❶       | 889M-U11RM-❶  | 889M-V11RM-❶     |
| 12-Pin    | C          | Yellow       | 18 AWG           | <b>889M-F12AH-❶</b>   | 889M-R12AH-❶       | —             | —                |
| 19-Pin    | A          | Black        | 3/18 & 16/22 AWG | 889M-F19RM-❶          | 889M-R19RM-❶       | 889M-U19RM-❶  | 889M-V19RM-❶     |

### Patchcords

| Pin Count | Jacket Color | Assembly Rating  | Cat. No.                      |                                  |                                  |                                     |
|-----------|--------------|------------------|-------------------------------|----------------------------------|----------------------------------|-------------------------------------|
|           |              |                  | Straight Female Straight Male | Straight Female Right Angle Male | Right Angle Female Straight Male | Right Angle Female Right Angle Male |
| 11-Pin    | Black        | 3/18 & 8/22 AWG  | 889M-F11RMMU-❷                | 889M-F11RMMV-❷                   | 889M-R11RMMU-❷                   | 889M-R11RMMV-❷                      |
| 12-Pin    | Yellow       | 18 AWG           | 889M-F12AHMU-❸                | —                                | —                                | —                                   |
| 19-Pin    | Black        | 3/18 & 16/22 AWG | 889M-F19RMMU-❷                | 889M-F19RMMV-❷                   | 889M-R19RMMU-❷                   | 889M-R19RMMV-❷                      |

- ❶ Replace symbol with 2 (2 m), 5 (5 m) or 10 (10 m) for standard cable lengths.  
 ❷ Replace symbol with OM3 (0.3 m), 1 (1 m), 2 (2 m), 5 (5 m), or 10 (10 m) for standard cable lengths.  
 ❸ Replace symbol with OM3 (0.3 m), OM6 (0.6 m), 1 (1 m), 2 (2 m) or 3 (3 m) for standard cable lengths.

