

Cordsets & Field Attachables

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Cordsets & Field Attachables

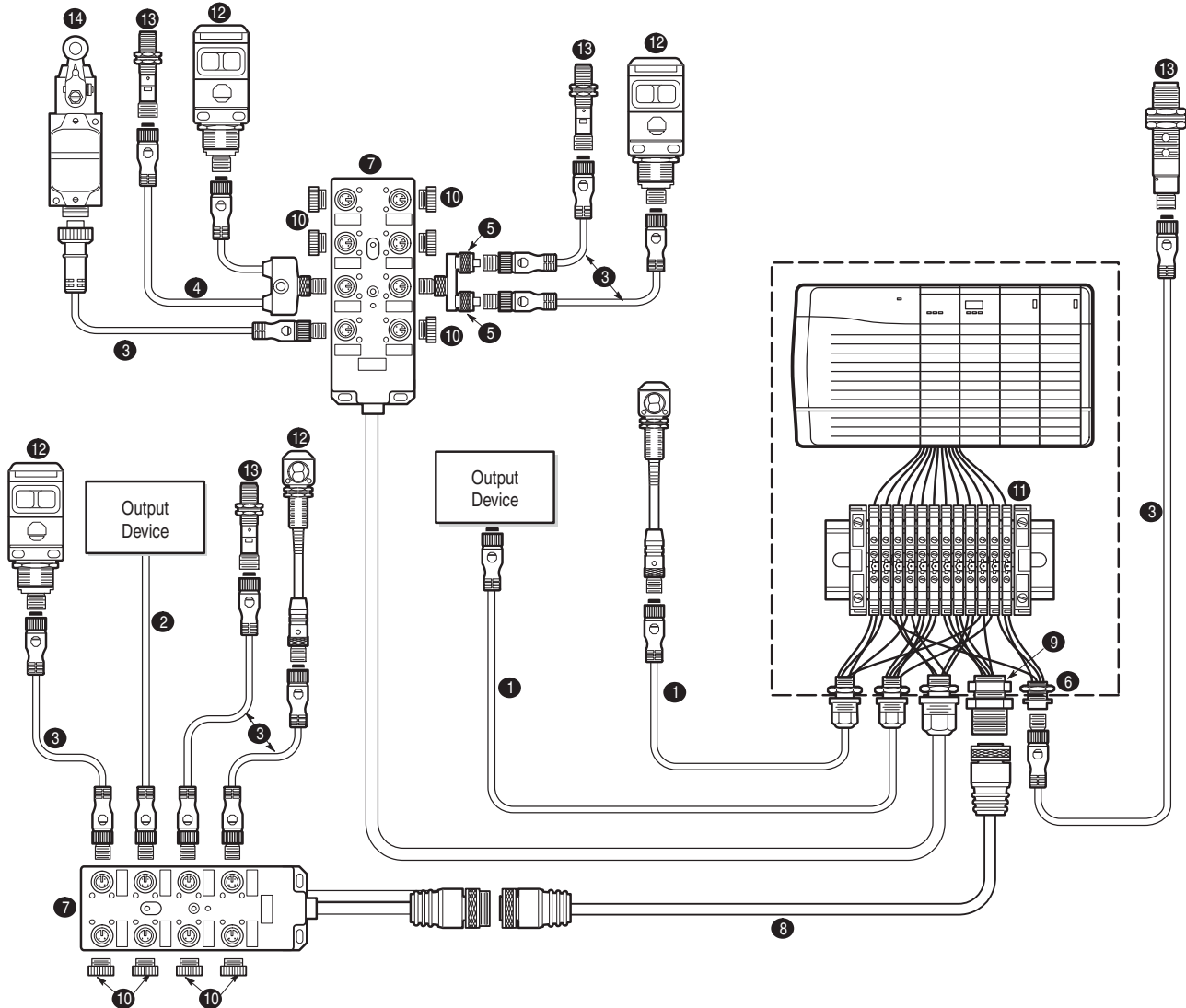
Quick Selection Guide

					
Specifications	Female Cordsets	Male Cordsets	Patchcords	Splitters	V-Cables
Description	<ul style="list-style-type: none"> Cable with integral female connector on one end 	<ul style="list-style-type: none"> Cable with integral male connector on one end 	<ul style="list-style-type: none"> Cable with integral connector on each end 	<ul style="list-style-type: none"> Cable with single male connector attached to two female connectors 	<ul style="list-style-type: none"> Cable with single male connector attached to two female connectors
Features	<ul style="list-style-type: none"> Straight or right angle Multiple standard lengths Braided and unbraided Standard and LED versions Female connector provides direct interface to sensors and other field devices 	<ul style="list-style-type: none"> Straight or right angle Multiple standard lengths Male connector provides interface to distribution boxes or DC micro ArmorBlock DeviceNet I/O 	<ul style="list-style-type: none"> Straight or right angle Multiple standard lengths Direct connection between field devices and distribution boxes or Allen-Bradley ArmorBlock DeviceNet I/O 	<ul style="list-style-type: none"> Straight or right angle connectors Multiple standard lengthse Direct connection between field devices and distribution boxes or Allen-Bradley ArmorBlock DeviceNet I/O 	<ul style="list-style-type: none"> Straight or right angle connectors Multiple standard lengthse Direct connection between field devices and distribution boxes or Allen-Bradley ArmorBlock DeviceNet I/O
Available Models	<ul style="list-style-type: none"> Mini3-10 Mini Illuminated . . .3-20 Mini Coiled3-20 Mini-Plus3-32 DC Micro3-44 DC Micro Illuminated . . .3-54 DC Micro Coiled . . .3-54 AC Micro3-80 AC Micro Coiled . . .3-88 EAC Micro3-101 Pico3-106 Pico Illuminated . . .3-112 M233-132 	<ul style="list-style-type: none"> Mini3-10 DC Micro3-44 AC Micro3-80 	<ul style="list-style-type: none"> Mini to Mini3-58 Mini-Plus3-32 DC Micro3-44 DC Micro to Pico . . .3-54 AC Micro3-80 EAC Micro3-101 Pico3-106 M233-132 	<ul style="list-style-type: none"> DC Micro Splitter . . .3-68 AC Micro Splitter . . .3-92 DC Micro to Pico Splitter3-120 	<ul style="list-style-type: none"> DC Micro to DC Micro VCables3-60 DC Micro to Conductor VCables3-60 DC Micro to Pico V-Cables3-60

				
Specifications	Receptacles	Bulkhead Pass-Thru	Terminal Chambers	Accessories
Description	<ul style="list-style-type: none"> Panel mount connector with flying lead 	<ul style="list-style-type: none"> Panel mount connector, male to female 	<ul style="list-style-type: none"> Field installable connectors 	<ul style="list-style-type: none"> Sealing caps, coupling adaptors, and other connection systems accessories
Features	<ul style="list-style-type: none"> Male and female configurations 1/2 in. NPT, 1/4 in. NPT or M14 threads Threaded metal housing 	<ul style="list-style-type: none"> 4- and 5-pin configurations 1/2 in. NPT, 1/4 in. NPT or M14 threads Threaded metal housing 	<ul style="list-style-type: none"> Screw, solder, or insulation displacement connector styles Straight or right angle Multiple sizes for varying cable jacket diameters 	<ul style="list-style-type: none"> Rugged durable construction Versions to interface with male or female connectors Multiple sizes for various connector types
Available Models	<ul style="list-style-type: none"> Mini Receptacle3-24 DC Micro3-70 AC Micro3-94 EAC Micro3-102 Pico3-122 M233-134 	<ul style="list-style-type: none"> Mini Bulkhead Pass-thru 3-28 DC Micro Bulkhead Pass-thru3-76 	<ul style="list-style-type: none"> Mini3-26 DC Micro3-72 AC Micro3-96 Pico3-124 	<ul style="list-style-type: none"> Sealing caps3-161 Coupling adaptors3-162 Mounting nuts3-162 Sealing washers3-162



Typical Configuration (DC Micro Connectors Based System)



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- 5. DC Micro Splitter.....3-68
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- 7. DC Micro Distribution Box4-10
- 8. Mini-Plus Patchcord.....3-32
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- 10. DC Micro Sealing Caps.....3-161

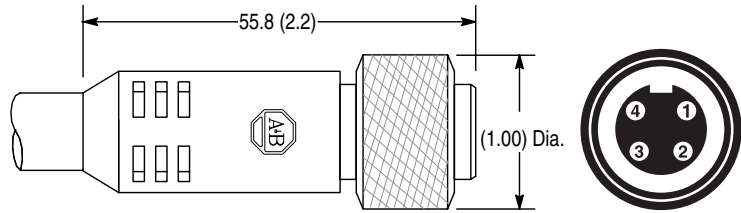
- 11. Terminal Blocks See "Industrial Controls" catalog
- 12. Photoelectric Sensors.. See "Sensors" catalog
- 13. Inductive Sensor
- 14. Limit Switch

3-Cordsets

Which Connector to Use?

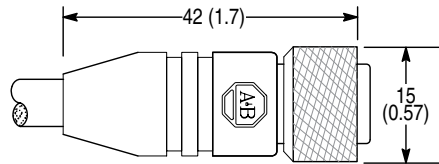
Mini QD

- 3-pin, 4-pin, 5-pin and 6-pin
- Straight and right angle
- Illuminated and non-illuminated
- 6 ft, 12 ft, and 20 ft lengths (standard)
- Alternate wire color codes available
- Heavy duty STOOW-A or general purpose cable



DC Micro QD

- 4-pin or 5-pin
- Straight and right angle
- Illuminated and non-illuminated
- 2 m, 5 m, and 10 m lengths (standard)
- Stranded aluminum shield
- M12 x 1 thread (IEC standard)
- Single keyway

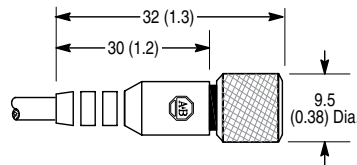


AC Micro QD

- 3-pin, 4-pin, 5-pin or 6-pin
- Straight and right angle
- Illuminated and non-illuminated
- 2 m, 5 m, and 10 m lengths (standard)
- 1/2 in.-20 thread (English)
- Dual keyway

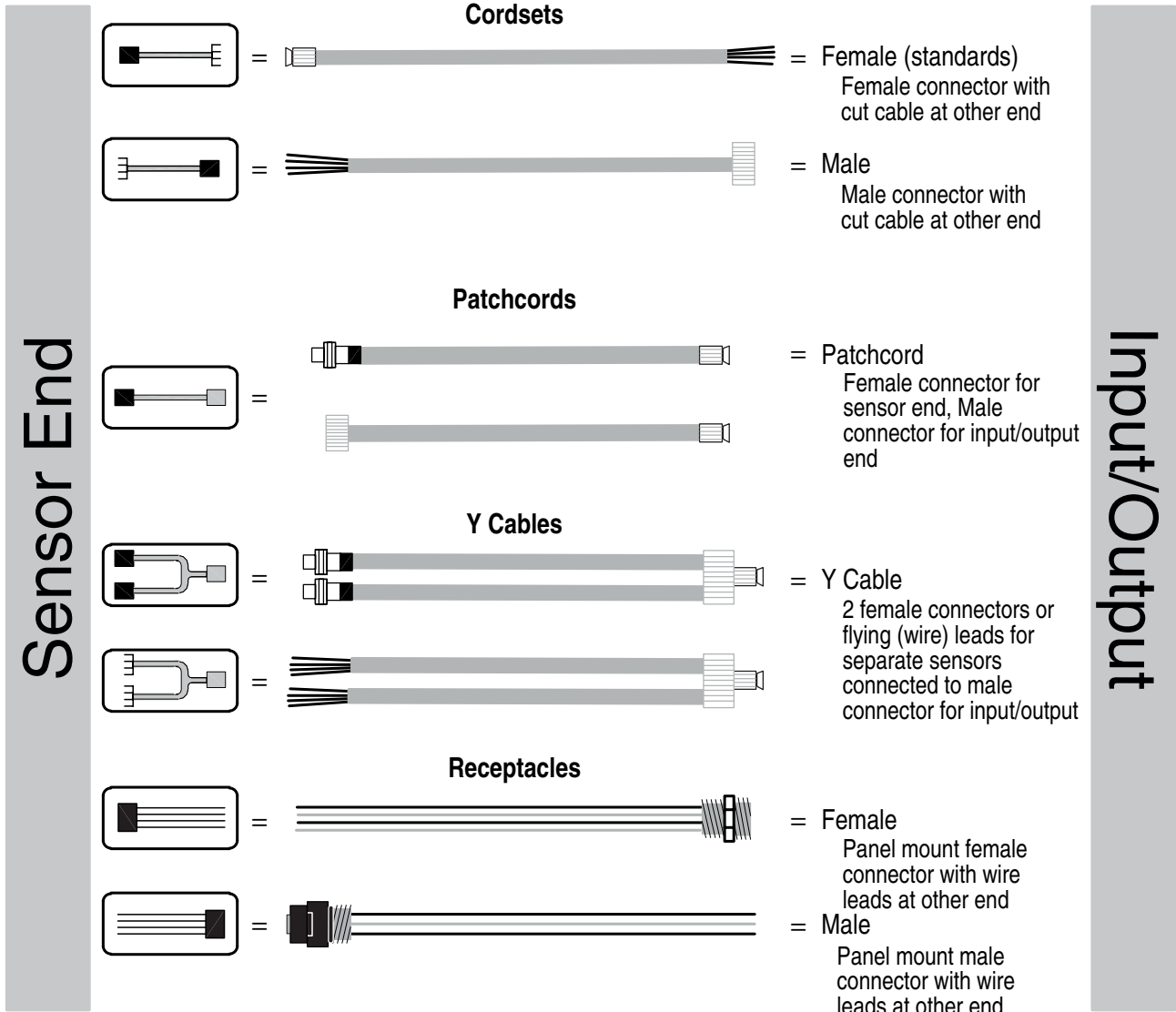
Pico QD

- 3-pin or 4-pin
- Straight and right angle
- Illuminated and non-illuminated
- Snap-on or thread-on
- 2 m, 5 m, and 10 m lengths (standard)



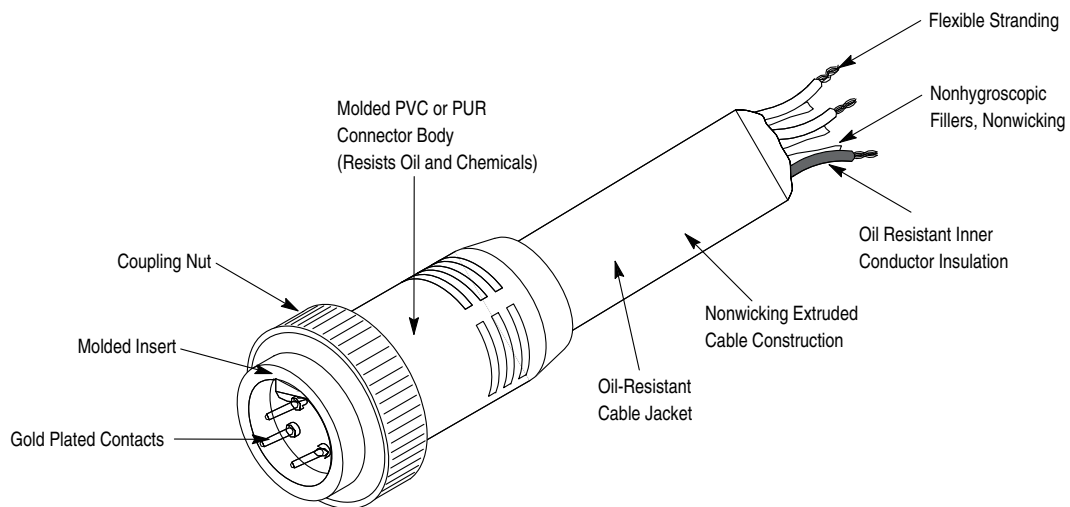
Company Name	Naming Convention						
Rockwell Automation	Pico	DC Micro	AC Micro	EAC Micro	Mini	Mini-Plus	M23
Woodhead/ Brad Harrison®	Nano-Change®	Micro-Change® Single Keyway	Micro-Change® Dual Keyway	Micro-Change® Reverse Keyway	Mini-Change® A-Size	Mini-Change® B-Size & C-Size	M23
Turck	Picofast™	Eurofast™	Microfast™	Eurofast™ Reverse Key	Minifast™	—	Multifast™
Crouse-Hinds	NanoLine™	Micro-Mini™ DC DIN	Micro-Mini™ Dual Key	Micro-Mini™ AC DIN	MiniLine™ Style I	MiniLine™ Style II & StyleIII	—
Lumberg	Pico Style	Micro DC Style	Micro AC Style	Micro Style Reverse Key	Mini Style	Mini Style	M23
Other Names	M8	M12					
Standard Connector Threads	M8 x 1	M12 x 1	1/2 in.-20UN	M12 x 1	7/8 in.-16UN	1 in.-16UN 1 1/8 in.-16UN	M23

Cable Naming Conventions



3-Cordsets

Anatomy of a Cordset





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 3-, 4-, 5-, or 6-pin overmolded connectors, Allen-Bradley mini 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 prevent wiring mishaps. Allen-Bradley mini style 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 6, 12, and 20 ft lengths (standard), Allen-Bradley mini quick-disconnect cordsets and patchcords can also be ordered with alternate wire color coding or in a heavy-duty STOOW-A cable jacket.

Mini connector receptacles are also offered for bulkhead/panel installation. These 3-, 4-, or 5-pin die-cast connectors come in male or female versions and are UL Recognized, CSA Certified and ideal for use in enclosures. They also allow for custom wiring configurations.

Allen-Bradley passive distribution boxes allow multiple devices to be connected to a control system through a single pigtail. Each distribution box features internal thread female receptacles (4, 6, or 8, depending on model) for quick and easy connection with quick-disconnect mating plugs.

Terminal chambers are passive field-installable connectors for use with raw cable. Allen-Bradley 3-, 4-, and 5-pin mini style terminal chambers contain screw terminals for quick and easy assembly of custom QD cables on the plant floor.

Rockwell Automation is continually expanding its connection system offerings. If our standard catalog does not contain the item that you need, or you have a special application, please contact your local Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Styles

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Mini Style

Configurator

Cordset

889N S - F 3 A F C - 12F
a b c d e f g

a

Coupling Nut Material	
Code	Description
Blank	Standard Coupling Nuts (Nickel Plated Brass)
S	Stainless Steel Coupling Nuts

b

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
K	Straight Female, PNP, Snap-On (Internal Threads)
L	Neon, Right Angle Female (Internal Threads)
R	Right Angle Female (Internal Threads)
U	Straight Male (Internal Threads)
V	Right Angle Male (Internal Threads)

c

Number of Pins	
Code	Description
2...6	Number of Pins

d

Jacket Material	
Code	Description
A	PVC Cable
G	PVC Cable, Grey, Unshielded
H	ToughLink™ Cable
W	ToughWeld™ Cable

e

Wire Gauge	
Code	Description
C	22 AWG (9) 22 AWG/(3) 18 AWG
E	18 AWG
F	16 AWG

f

Color Code	
Code	Description
Blank	IEC Color Code
A	Automotive Color Code
C	U.S. Industry Standard Color Code

g

Cable Length	
Code	Description
Blank	Meters (0M3 = 0.3 m)
F	Feet (1F5 = 1.5 ft)

Patchcord

889N S - F 4 A F N U - 12F
a b c d e f g h

a

Coupling Nut Material	
Code	Description
Blank	Standard Coupling Nuts (Nickel Plated Brass)
S	Stainless Steel Coupling Nuts

b

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
K	Straight Female, PNP, Snap-On (Internal Threads)
R	Right Angle Female (Internal Threads)

c

No. of Pins	
Code	Description
2...6	No. of Pins

d

Jacket Material	
Code	Description
A	PVC Cable
G	PVC Cable, Grey, Unshielded
H	ToughLink™ Cable
W	ToughWeld™ Cable

e

Wire Gauge	
Code	Description
C	22 AWG (9) 22 AWG/(3) 18 AWG
E	18 AWG
F	16 AWG

f

Male End Connector Style	
Code	Description
N	Mini QD

g

Male End Connector Type	
Code	Description
E	Right Angle Male (External Threads)
M	Straight Male (External Threads)
U	Straight Male (Internal Threads)
V	Right Angle Male (Internal Threads)

h

Cable Length	
Code	Description
Blank	Meters (0M3 = 0.3 m)
F	Feet (1F5 = 1.5 ft)

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.



Receptacles

888N – $\frac{F}{a}$ $\frac{4}{b}$ $\frac{A}{c}$ $\frac{F}{d}$ $\frac{1}{e}$ – $\frac{1F}{f}$

a

Connector Type	
Code	Description
F	Straight Female (External Threads)
R	Right Angle Female (External Threads)
M	Straight Male (External Threads)
E	Right Angle Male (External Threads)

b

No. of Pins	
Code	Description
2...6	No. of Pins

c

Wire Type	
Code	Description
A	PVC

d

Wire Gauge	
Code	Description
E	18 AWG
F	16 AWG

e

Mounting Threads	
Code	Description
1	1/2 inch 14 NPT

f

Cable Length	
Code	Description
Blank	Meters (0M3 = 0.3 m)
F	Feet (1F5 = 1.5 ft)

3-Cordsets

Cordsets & Patchcords, Mini Style

16 AWG, STOOW PVC



4-Pin Straight Mini Cordset

Features

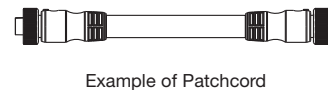
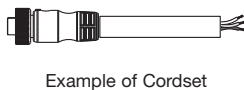
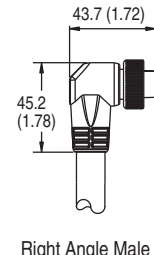
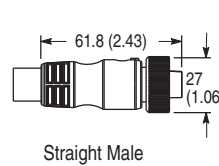
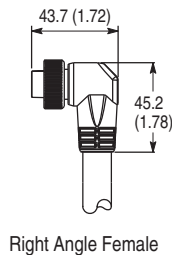
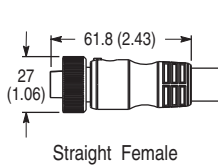
- Heavy duty STOOW-A 16 AWG cable
- PVC jacket offers good oil and chemical resistance
- 2-, 3-, 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil-resistant TPE
Contact Material	Gold-plated palladium/nickel
Cable Type	Oil-resistant yellow PVC jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, STOOW-A
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	2/c = 10 (0.40) 3/c = 10 (0.40) 4/c = 11 (0.43) 5/c = 13 (0.51) 6/c = 14 (0.55)
Electrical	
Cable Rating	UL STOOW VW-1 105C 600V, CSA ST 105C 600V FT2, UV oil and water resistant
Assembly Rating	2-pin = 600V, 13 A 3-pin = 600V, 13 A 4-pin = 600V, 10 A 5-pin = 600V, 8 A 6-pin = 600V, 8 A
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown, IP69K
Temperature Rating [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Mating Components & Accessories

Description	Cat. No.	Page
Coupling Adaptors	889A-NADPT	3-162

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 2 Black	1 Green 2 Black 3 White	1 Black 2 White	3 Red 4 Green	1 White 2 Red 3 Green	4 Orange 5 Black	1 White 2 Red 3 Green	4 Orange 5 Black 6 Blue	1 White 2 Red 3 Green	4 Orange 5 Black 6 Blue
B (Auto)	—	1 Green 2 Red/Black Tr 3 Red/White Tr	1 Red/Black Tr 2 Red/White Tr	3 Red 4 Green	1 Red/White Tr 2 Red 3 Green 4 Red/Yellow Tr 5 Red/Black Tr	—	—	—	—	—
C (IEC)	—	—	1 Black 2 Blue	3 Brown 4 White	1 Black 2 Blue 3 Orange	4 Brown 5 White	1 Blue 2 Orange 3 Red	4 White 5 Brown 6 Black	1 Blue 2 Orange 3 Red	4 White 5 Brown 6 Black

Product Selection

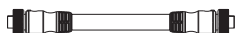
Cordsets



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

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **12** (12 ft), or **20** (20 ft) for other standard cable lengths.

Patchcords



No. of Pins	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	600V, 13 A	889N-F2AFNU-6F	889N-F2AFNV-6F	889N-R2AFNU-6F	889N-R2AFNV-6F
3-Pin	600V, 13 A	889N-F3AFNU-6F	889N-F3AFNV-6F	889N-R3AFNU-6F	889N-R2AFNV-6F
4-Pin	600V, 10 A	889N-F4AFNU-6F	889N-F4AFNV-6F	889N-R4AFNU-6F	889N-R2AFNV-6F
5-Pin	600V, 8 A	889N-F5AFNU-6F	889N-F5AFNV-6F	889N-R5AFNU-6F	889N-R5AFNV-6F
6-Pin	600V, 8 A	889N-F6AFNU-6F	889N-F6AFNV-6F	889N-R6AFNU-6F	889N-R6AFNV-6F

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **3** (3 ft), **12** (12 ft), or **20** (20 ft) for other standard cable lengths.

Note: Stainless steel connector versions may be ordered by adding an **S** to the cat. no., e.g., 889NS-F3AFC-6F.

3-Cordsets

Cordsets & Patchcords, Mini Style

18 AWG, PVC



4-Pin Straight Mini Cordset

Features

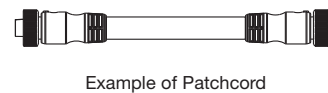
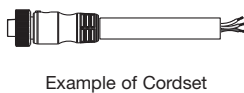
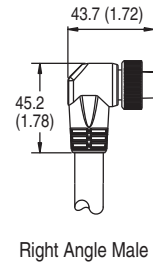
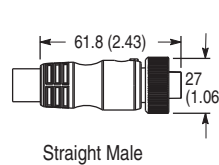
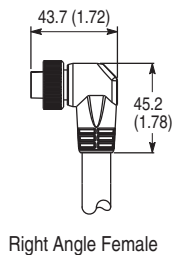
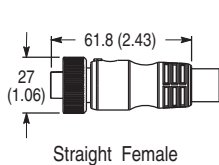
- General purpose 18 AWG cable
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- 2-, 3-, 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil-resistant TPE
Contact Material	Gold-plated palladium/nickel
Cable Type	Oil-resistant yellow PVC jacket, 18 AWG stranded copper, 300V; UL Recognized and CSA Certified
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	2/c = 6 (0.24) 3/c = 6 (0.25) 4/c = 7 (0.27) 5/c = 8 (0.31) 6/c = 8 (0.32)
Electrical	
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 3-pin = 300V, 10 A 4-pin = 300V, 7 A 5-pin = 300V, 5.6 A 6-pin = 300V, 5.6 A
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown, IP69K
Temperature Rating [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Mating Components & Accessories

Description	Cat. No.	Page
Coupling Adaptors	889A-NADPT	3-162

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 2 Black		1 Green 2 Black 3 White		1 Black 2 White	3 Red 4 Green	1 White 2 Red 3 Green	4 Orange 5 Black	1 White 2 Red 3 Green	4 Orange 5 Black 6 Blue
B (Auto)	—		1 Green 2 Red/Black Tr 3 Red/White Tr		1 Red/Black Tr 2 Red/White Tr	3 Red 4 Green	1 Red/White Tr 2 Red 3 Green 4 Red/Yellow Tr 5 Red/Black Tr		—	
C (IEC)	—		—		1 Black 2 Blue	3 Brown 4 White	1 Black 2 Blue 3 Grey	4 Brown 5 White	—	

Product Selection

Cordsets

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

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **12** (12 ft), or **20** (20 ft) for other standard cable lengths.

Patchcords

No. of Pins	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-6F	889N-F2AENV-6F	889N-R2AENU-6F	889N-R2AENV-6F
3-Pin		889N-F3AENU-6F	889N-F3AENV-6F	889N-R3AENU-6F	889N-R3AENV-6F
4-Pin	300V, 7 A	889N-F4AENU-6F	889N-F4AENV-6F	889N-R4AFNU-6F	889N-R4AENV-6F
5-Pin	300V, 5.6 A	889N-F5AENU-6F	889N-F5AENV-6F	889N-R5AENU-6F	889N-R5AENV-6F
6-Pin		889N-F6AENU-6F	889N-F6AENV-6F	889N-R6AENU-6F	889N-R6AFNV-6F

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **3** (3 ft), **12** (12 ft), or **20** (20 ft) for other standard cable lengths.

Note: Stainless steel connector versions may be ordered by adding an **S** to the cat. no., e.g., 889NS-F3AEC-6F.

3-Cordsets

Cordsets & Patchcords, Mini Style

16 AWG, ToughLink™ and ToughWeld™



4-Pin Straight Mini Cordset

Features

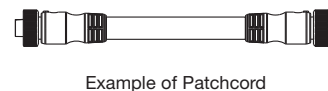
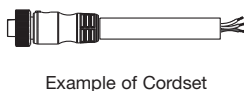
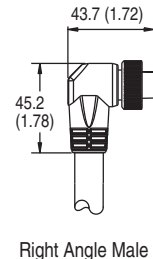
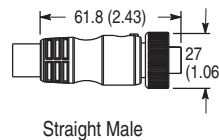
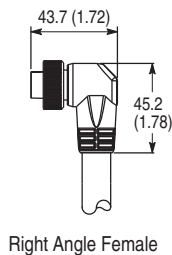
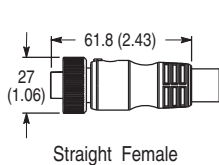
- Heavy duty 16 AWG cable
- Highly visible yellow ToughLink jacket offers excellent oil and chemical resistance
- ToughWeld jacket offers good oil and chemical resistance and excellent resistance to weld slag
- 3-, 4-, and 5-pin configurations
- Ratcheting coupling nut for vibration resistance

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil-resistant TPE
Contact Material	Gold-plated palladium/nickel
Cable Type	ToughLink: Oil-resistant yellow TPE jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, SEOOW ToughWeld: Oil-resistant yellow CPE thermoset jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, SOOW
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	3/c = 10 (0.41) 4/c = 11 (0.44) 5/c = 13 (0.52)
Electrical	
Cable Rating	ToughLink: UL SEOOW VW-1 105C -50C 600V water resistant, CSA STOO FT-1 600V; ToughWeld: UL SOOW 105C 600V water resistant, CSA -50C FT-1 600V
Assembly Rating	3-pin = 600V, 13 A 4-pin = 600V, 10 A 5-pin = 600V, 8 A
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown, IP69K
Temperature Rating [C (F)]	-50...+105° (-58...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Mating Components & Accessories

Description	Cat. No.	Page
Coupling Adaptors	889A-NADPT	3-162

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 2 Black 3 White	1 Black 2 White	1 Black 2 White 3 Red 4 Green	1 Black 2 White 3 Red 4 Green	1 White 2 Red 3 Green	4 Orange 5 Black

Product Selection

Cordsets 

No. of Pins	Jacket 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-6F	889N-R3HFC-6F	889N-U3HFC-6F	889N-V3HFC-6F
4-Pin		600V 10 A		889N-F4HFC-6F	889N-R4HFC-6F	889N-U4HFC-6F	889N-V4HFC-6F
5-Pin		600V 8 A		889N-F5HFC-6F	889N-R5HFC-6F	889N-U5HFC-6F	889N-V5HFC-6F
3-Pin	ToughWeld (CPE)	600V 13 A		889N-F3WFC-6F	889N-R3WFC-6F	889N-U3WFC-6F	889N-V3WFC-6F
4-Pin		600V 10 A		889N-F4WFC-6F	889N-R4WFC-6F	889N-U4WFC-6F	889N-V4WFC-6F
5-Pin		600V 8 A		889N-F5WFC-6F	889N-R5WFC-6F	889N-U5WFC-6F	889N-V5WFC-6F

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **12** (12 ft), or **20** (20 ft) for other standard cable lengths.

Patchcords 

No. of Pins	Jacket Material	Assembly Rating	Cat. No.*			
			Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin	ToughLink (TPE)	600V 13 A	889N-F3HFNU-6F	889N-F3HFNV-6F	889N-R3HFNU-6F	889N-R3HFNV-6F
4-Pin		600V 10 A	889N-F4HFNU-6F	889N-F4HFNV-6F	889N-R4HFNU-6F	889N-R4HFNV-6F
5-Pin		600V 8 A	889N-F5HFNU-6F	889N-F5HFNV-6F	889N-R5HFNU-6F	889N-R5HFNV-6F
3-Pin	ToughWeld (CPE)	600V 13 A	889N-F3WFNU-6F	889N-F3WFNV-6F	889N-R3WFNU-6F	889N-R3WFNV-6F
4-Pin		600V 10 A	889N-F4WFNU-6F	889N-F4WFNV-6F	889N-R4WFNU-6F	889N-R4WFNV-6F
5-Pin		600V 8 A	889N-F5WFNU-6F	889N-F5WFNV-6F	889N-R5WFNU-6F	889N-R5WFNV-6F

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **3** (3 ft), **12** (12 ft), or **20** (20 ft) for other standard cable lengths.

Note: Stainless steel connector versions may be ordered by adding an **S** to the cat. no., e.g., 889NS-F3HFC-6F.

3-Cordsets

Cordsets & Field Attachables
Cordsets & Patchcords, Mini Style
 18 AWG, TPE and ToughWeld™



4-Pin Straight Mini Cordset

Features

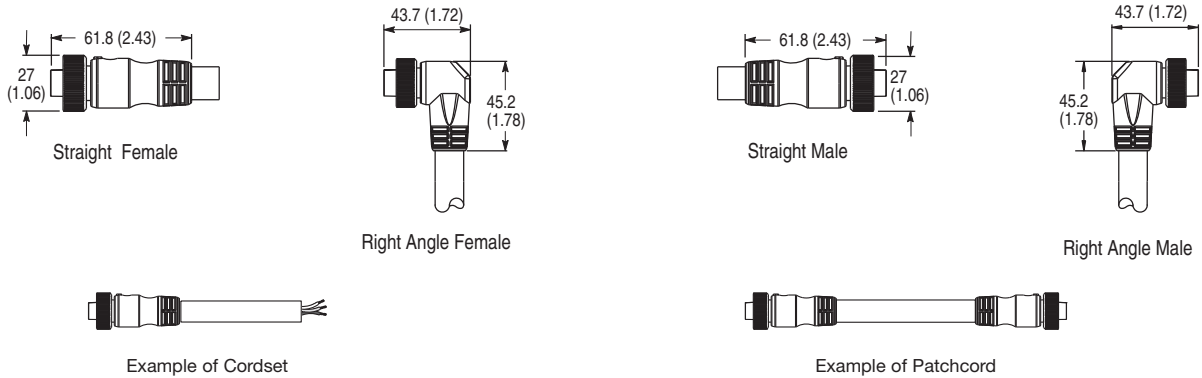
- General purpose 18 AWG cable
- Highly visible yellow ToughLink jacket offers excellent oil and chemical resistance
- ToughWeld jacket offers good oil and chemical resistance and excellent resistance to weld slag
- 3-, 4-, and 5-pin configurations
- Ratcheting coupling nut for vibration resistance

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil-resistant TPE
Contact Material	Gold-plated palladium/nickel
Cable Type	Oil-resistant yellow TPE or CPE jacket, 18 AWG stranded copper, 300V; UL Recognized and CSA Certified
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	TPE: 3/c = 6 (0.25), 4/c = 7 (0.27), 5/c = 8 (0.32) ToughWeld: 3/c = 8 (0.32), 4/c = 9 (0.36), 5/c = 10 (0.38)
Electrical	
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 ToughWeld: UL SJOOW 105C 300V water resistant, CSA -50C FT-1 300V
Assembly Rating	3-pin = 300V, 10 A 4-pin = 300V, 7 A 5-pin = 300V, 5.6 A
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown, IP69K
Temperature Rating [C (F)]	-50...+105° (-58...+221°)

Approximate Dimensions







Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Mating Components & Accessories

Description	Cat. No.	Page
Coupling Adaptors	889A-NADPT	3-162

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 2 Black 3 White		1 Black 2 White	3 Red 4 Green	1 White 2 Red 3 Green	4 Orange 5 Black
B (Auto)	1 Green 2 Red/Black Tr 3 Red/White Tr		1 Red/Black Tr 2 Red/White Tr	3 Red 4 Green	1 Red/White Tr 2 Red 3 Green	4 Red/Yellow Tr 5 Red/Black Tr

Product Selection

Cordsets 

No. of Pins	Jacket 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-6F	889N-R3HJA-6F	889N-U3HJA-6F	889N-V3HJA-6F
4-Pin		300V, 7 A		889N-F4HJA-6F	889N-R4HJA-6F	889N-U4HJA-6F	889N-V4HJA-6F
5-Pin		300V, 5.6 A		889N-F5HJA-6F	889N-R5HJA-6F	889N-U5HJA-6F	889N-V5HJA-6F
3-Pin	ToughWeld (CPE)	300V, 10 A	A	889N-F3WEC-6F	889N-R3WEC-6F	889N-U3WEC-6F	889N-V3WEC-6F
4-Pin		300V, 7 A		889N-F4WEC-6F	889N-R4WEC-6F	889N-U4WEC-6F	889N-V4WEC-6F
5-Pin		300V, 5.6 A		889N-F5WEC-6F	889N-R5WEC-6F	889N-U5WEC-6F	889N-V5WEC-6F

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **12** (12 ft), or **20** (20 ft) for other standard cable lengths.

Patchcords 

No. of Pins	Jacket Material	Assembly Rating	Cat. No.*			
			Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin	TPE	300V, 10 A	889N-F3HJNU-6F	889N-F3HJNV-6F	889N-R3HJNU-6F	889N-R3HJNV-6F
4-Pin		300V, 7 A	889N-F4HJNU-6F	889N-F4HJNV-6F	889N-R4HJNU-6F	889N-R4HJNV-6F
5-Pin		300V, 5.6 A	889N-F5HJNU-6F	889N-F5HJNV-6F	889N-R5HJNU-6F	889N-R5HJNV-6F
3-Pin	ToughWeld (CPE)	300V, 10 A	889N-F3WENU-6F	889N-F3WENV-6F	889N-R3WENU-6F	889N-R3WENV-6F
4-Pin		300V, 7 A	889N-F4WENU-6F	889N-F4WENV-6F	889N-R4WENU-6F	889N-R4WENV-6F
5-Pin		300V, 5.6 A	889N-F5WENU-6F	889N-F5WENV-6F	889N-R5WENU-6F	889N-R5WENV-6F

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **3** (3 ft), **12** (12 ft), or **20** (20 ft) for other standard cable lengths.

Note: Stainless steel connector versions are available by adding and **S** to the cat. no., e.g., 889NS-F3HFC-6F.

3-Cordsets

Cordsets & Patchcords, Mini Style

PLTC, 18 AWG, Grey PVC



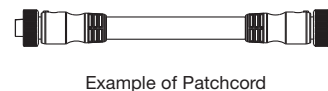
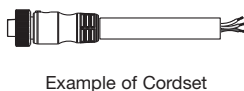
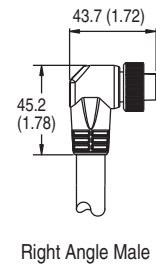
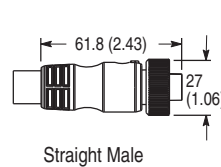
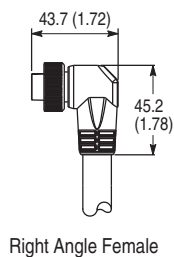
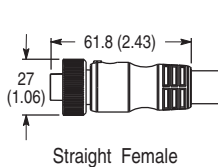
4-Pin Straight Mini Cordset

Features

- Heavy duty power limited tray cable (PLTC) 18 AWG cable
- PVC jacket offers good oil and chemical resistance
- 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.









Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil resistant TPE
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant grey PVC jacket, 18 AWG conductors, 300V, UL Listed and CSA Certified
Bend Radius	10x diameter
Electrical	
Cable Rating	UL PLTC AWM Style 2661VW-1 105C 300V, CSA AWM A/B 1/II 80C 300V FT1, UV oil and water resistant
Assembly Rating	4-pin = 300V, 7 A
	5-pin = 300V, 5.6 A
	6-pin = 300V, 5.6 A
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown, IP69K
Temperature Rating [C (F)]	-20...+105° (-4...+221°)

Mating Components & Accessories

Description	Cat. No.	Page
Coupling Adaptors	889A-NADPT	3-162

Pinout and Color Code

Color Code	Face View Pinout					
	4-Pin		5-Pin		6-Pin	
						
	Female	Male	Female	Male	Female	Male
IEC A	1 Black 2 Blue	3 Brown 4 White	1 Black 2 Blue 3 Grey	4 Brown 5 White	1 White 2 Red 3 Green	4 Orange 5 Black 6 Blue
US B	1 Black 2 White	3 Red 4 Green	1 White 2 Red 3 Green	4 Orange 5 Black	1 White 2 Red 3 Green	4 Orange 5 Black 6 Blue

Product Selection

Cordsets 

No. of Pins	Cable Diameter [mm (in.)]	Color Code	Cat. No.*†			
			Straight Female	Right Angle Female	Straight Male w/Internal Threads	Right Angle Male w/Internal Threads
2-pin	6.0 (0.235)	B	889N-F2GEC-6F	889N-R2GEC-6F	889N-U2GEC-6F	889N-V2GEC-6F
3-pin	6.6 (0.26)		889N-F3GEC-6F	889N-R3GEC-6F	889N-U3GEC-6F	889N-V3GEC-6F
4-pin*	6.6 (0.26)		889N-F4GEC-6F	889N-R4GEC-6F	889N-U4GEC-6F	889N-V4GEC-6F
5-pin*	7.6 (0.3)		889N-F5GEC-6F	889N-R5GEC-6F	889N-U5GEC-6F	889N-V5GEC-6F
6-pin*	8.1 (0.32)		889N-F6GEC-6F	889N-R6GEC-6F	889N-U6GEC-6F	889N-V6GEC-6F

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **12** (12 ft) or **20** (20 ft) for other standard cable lengths.
 † Change GEC to GE for IEC Standard Color Code.

Patchcords 

No. of Pins	Cable Diameter [mm (in.)]	Cat. No.*			
		Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
4-pin	6.6 (0.26)	889N-F4GENU-6F	889N-F4GENV-6F	889N-R4GENU-6F	889N-R4GENV-6F
5-pin	7.6 (0.3)	889N-F5GENU-6F	889N-F5GENV-6F	889N-R5GENU-6F	889N-R5GENV-6F
6-pin	8.1 (0.32)	889N-F6GENU-6F	889N-F6GENV-6F	889N-R6GENU-6F	889N-R6GENV-6F

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **12** (12 ft) or **20** (20 ft) for other standard cable lengths.

Note: Stainless steel connector versions are available by adding and **S** to the cat. no., e.g., 889NS-F3HFC-6F.

3-Cordsets

Cordsets & Patchcords, Mini Style

LED or Coil Cables, PVC

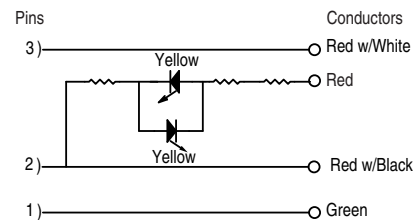


3-Pin Illuminated Mini Cordset

Features

- Illuminated cordset: long-life neon lamp indicates power and output
- Coiled cordset: retractable cable for moving applications
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- One-piece molded body design

Typical Wiring Diagrams

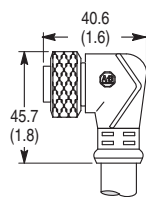


Specifications

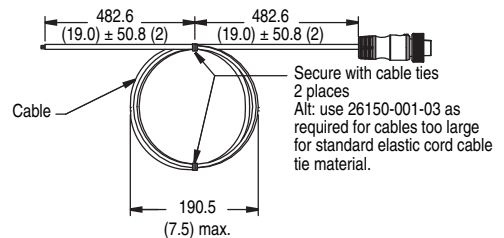
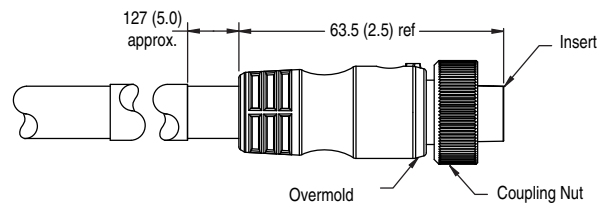
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil-resistant PUR
Contact Material	Gold-plated palladium/nickel
Cable Type	Oil-resistant yellow PVC jacket, 18 AWG stranded copper, 300V; UL Recognized and CSA Certified
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	3/c = 7.4 (0.29) 4/c = 7.1 (0.28)
Electrical	
Cable Rating	LED models: UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant Coiled Cable: 300V, UL style 20197, CSA AWM 1/11 A/B
Assembly Rating	3-pin = 120V, 3 A for 18 AWG, 6 A for 16 AWG 4-pin = 120V, 3 A for 18 AWG, 6 A for 16 AWG
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown, IP69K
Temperature Rating [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.





Right Angle Female



Example of Cordset

Pinout and Color Code

	Face View Pinout	
	3-Pin	4-Pin
		
Color Code	Female	Female
A	1 Green 2 Red/Black Tr 3 Red/White Tr	1 Red/Black Tr 3 Red 2 Red/White Tr 4 Green

Product Selection



No. of Pins	Jacket Material	Wire Rating	Cat. No.*	
			Straight Female	Right Angle Female
3-Pin	Yellow PVC	16 AWG	889N-K3AFA-6F	889N-L3AFA-6F
3-Pin	Yellow PVC	18 AWG	889N-K3AEA-6F	889N-L3AEA-6F



No. of Pins		Jacket Material	Wire Rating	Cat. No.*			
Female	Male			Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-pin	4-pin	Yellow PVC	16 AWG	889N-K3AFN4U-6F	889N-K3AFN4V-6F	889N-L3AFN4U-6F	889N-L3AFN4V-6F
3-pin	4-pin	Yellow PVC	18 AWG	889N-K3AEN4U-6F	889N-K3AEN4V-6F	889N-L3AEN4U-6F	889N-L3AEN4V-6F

* The **6F** at the end of the cat. no. is for 6 ft cable length. Replace the **6** with **12** (12 ft) or **20** (20 ft) for other standard cable lengths.



No. of Pins	Wire Rating	Color Code	Cat. No.
			Straight Female
4-Pin	18 AWG 300V 5 A	A	889N-F4AD-C5F

3-Cordsets

Cordsets & Field Attachables
T-Ports, Mini Style
 Tap-Style Wiring



Tap-Style Wiring

Features

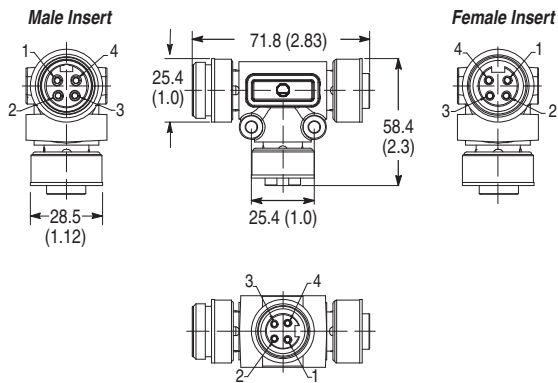
- Tap style wiring
- TPE body offers good oil and chemical resistance
- Ratcheting coupling nuts for vibration resistance

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Black epoxy-coated zinc
Housing Material	TPE
Contact Material	Gold-plated palladium/nickel
Electrical	
Assembly Rating	300V, 8 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-25...+70° (-13...+158°)







Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Note: 4 pin version shown.

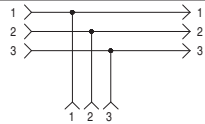
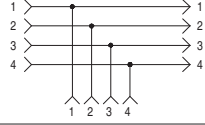
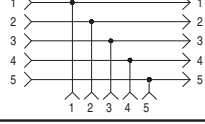
Pinout and Color Code

Face View Pinout					
3-Pin		4-Pin		5-Pin	
					
Female	Male	Female	Male	Female	Male

Product Selection

T-Ports



No. of Pins	Wiring Diagram	Assembly Rating	Cat. No.
3-Pin		300V 8 A	898N-33PB-N4KF
4-Pin			898N-43PB-N4KF
5-Pin			1485P-P1N5-MN5KF

Note: Stainless steel connector versions may be ordered by adding an **S** to the cat. no., e.g., 889NS-43PB-N4KF.

Cordsets & Field Attachables
Receptacles, Mini Style
 16 & 18 AWG, 1/2 in. NPT Mount



4-Pin Mini Female Receptacle



2-Pin Mini Male Receptacle

Features

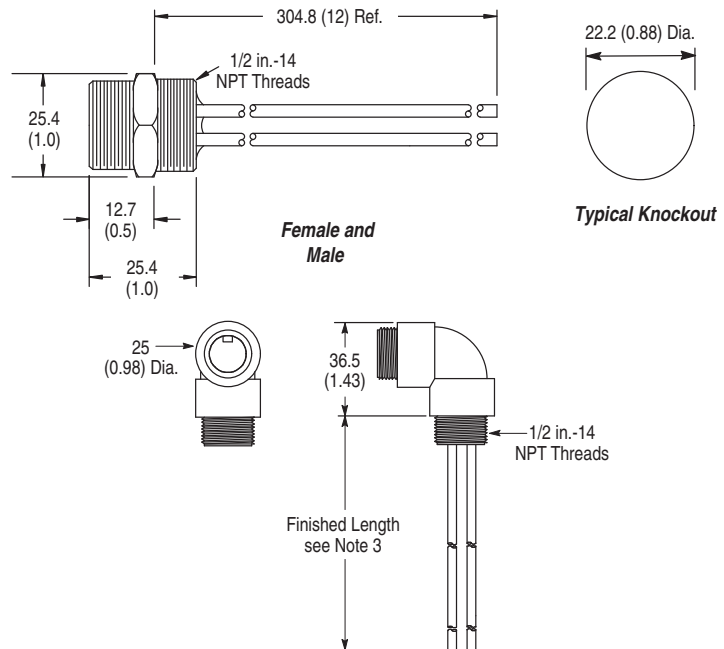
- 16 & 18 AWG conductors
- Female bulkhead receptacles
- 2-, 3-, 4-, 5-, or 6-pin configuration
- 1/2 in.-14 NPT threads

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Black epoxy-coated zinc
Contact Material	Gold-plated palladium/nickel
Insert Material	PVC
Conductors	16 & 18 AWG, PVC insulation
Electrical	
Assembly Rating	2-pin = 16 AWG: 600V, 13 A; 18 AWG: 300V, 8 A
	3-pin = 16 AWG: 600V, 13 A; 18 AWG: 300V, 8 A
	4-pin = 16 AWG: 600V, 10 A; 18 AWG: 300V, 8 A
	5-pin = 16 AWG: 600V, 8 A; 18 AWG: 300V, 8 A
	6-pin = 16 AWG: 600V, 8 A; 18 AWG: 300V, 8 A
Environmental	
Enclosure Type Rating	NEMA 6P; IP67; 1200 psi washdown
Operating Temperature [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Mating Components & Accessories

Description	Cat. No.	Page
1/2 inch-14 NPT mounting nut*	889A-U1NUT-10	3-162
1/2 inch-14 NPT flat sealing washer*	889A-U1FSL-10	3-162

* Sold in bags of 10.

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 2 Black		1 Green 2 Black 3 White		1 Black 2 White	3 Red 4 Green	1 White 2 Red 3 Green	4 Orange 5 Black	1 White 2 Red 3 Green	4 Orange 5 Black 6 Blue
B (Auto)	—		1 Green 2 Red/Black Tr 3 Red/White Tr		1 Red/Black Tr 2 Red/White Tr	3 Red 4 Green	1 Red/White Tr 2 Red 3 Green 4 Red/Yellow Tr 5 Red/Black Tr			—
C (IEC)	—		—		1 Black 2 Blue	3 Brown 4 White	1 Black 2 Blue 3 Grey	4 Brown 5 White		—

Product Selection

16 AWG Receptacles

No. of Pins	Assembly Rating	Color Code	Thread Size	Cat. No.*			
				Straight Female External Threads	Right Angle Female External Threads	Straight Male External Threads	Right Angle Male External Threads
2-Pin	600V AC/DC, 13 A	A	1/2 inch-14 NPT	888N-F2AF1-1F	888N-R2AF1-1F	888N-M2AF1-1F	888N-E2AF1-1F
3-Pin		A		888N-F3AF1-1F	888N-R3AF1-1F	888N-M3AF1-1F	888N-E3AF1-1F
	B	888N-F3AFA1-1F		888N-R3AFA1-1F	888N-M3AFA1-1F	888N-E3AFA1-1F	
4-Pin	600V AC/DC, 10 A	A		888N-F4AF1-1F	888N-R4AF1-1F	888N-M4AF1-1F	888N-E4AF1-1F
		B		888N-F4AFA1-1F	888N-R4AFA1-1F	888N-M4AFA1-1F	888N-E4AFA1-1F
		C		888N-F4AFE1-1F	888N-R4AFE1-1F	888N-M4AFE1-1F	888N-E4AFE1-1F
5-Pin	600V AC/DC, 8 A	A		888N-F5AF1-1F	888N-R5AF1-1F	888N-M5AF1-1F	888N-E5AF1-1F
		B		888N-F5AFA1-1F	888N-R5AFA1-1F	888N-M5AFA1-1F	888N-E5AFA1-1F
		C		888N-F5AFE1-1F	888N-R5AFE1-1F	888N-M5AFE1-1F	888N-E5AFE1-1F
6-Pin		A		888N-F6AF1-1F	888N-R6AF1-1F	888N-M6AF1-1F	888N-E6AF1-1F

3-Cordsets

18 AWG Receptacles

No. of Pins	Assembly Rating	Color Code	Thread Size	Cat. No.*			
				Straight Female External Threads	Right Angle Female External Threads	Straight Male External Threads	Right Angle Male External Threads
2-Pin	300V, 10 A	A	1/2 inch-14 NPT	888N-F2AE1-1F	888N-R2AE1-1F	888N-M2AE1-1F	888N-E2AE1-1F
3-Pin		A		888N-F3AE1-1F	888N-R3AE1-1F	888N-M3AE1-1F	888N-E3AE1-1F
	B	888N-F3AEA1-1F		888N-R3AEA1-1F	888N-M3AEA1-1F	888N-E3AEA1-1F	
4-Pin	300V, 7 A	A		888N-F4AE1-1F	888N-R4AE1-1F	888N-M4AE1-1F	888N-E4AE1-1F
		B		888N-F4AEA1-1F	888N-R4AEA1-1F	888N-M4AEA1-1F	888N-E4AEA1-1F
		C		888N-F4AEE1-1F	888N-R4AEE1-1F	888N-M4AEE1-1F	888N-E4AEE1-1F
5-Pin	300V, 5.6 A	A		888N-F5AE1-1F	888N-R5AE1-1F	888N-M5AE1-1F	888N-E5AE1-1F
		B		888N-F5AEA1-1F	888N-R5AEA1-1F	888N-M5AEA1-1F	888N-E5AEA1-1F
		C		888N-F5AEE1-1F	888N-R5AEE1-1F	888N-M5AEE1-1F	888N-E5AEE1-1F
6-Pin		A		888N-F6AE1-1F	888N-R6AE1-1F	888N-M6AE1-1F	888N-E6AE1-1F

* The **1F** at the end of the cat. no. is for 1 ft cable length. Replace the **1** with **3** (3 ft) for other standard cable lengths.

Cordsets & Field Attachables
Terminal Chambers, Mini Style
 Screw-Type, Field Attachable Connector



3-Pin Mini Female Terminal Chamber

Specifications

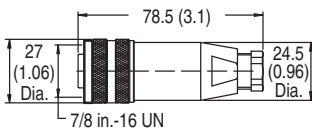
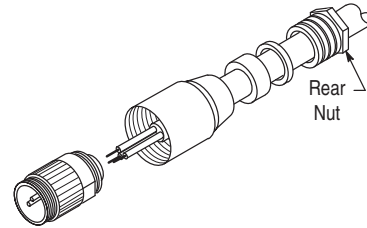
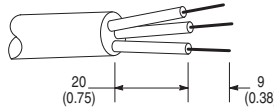
Mechanical	
Coupling Nut Material	Black anodized aluminum
Connector Shell Material	PBT
Contact Material	Gold-plated brass
Wire Size, Max.	16 AWG (1.5 mm ²)
Environmental	
Enclosure Type Rating	IP67
Operating Temperature [C (F)]	-40...+85° (-40...+185°)

Features

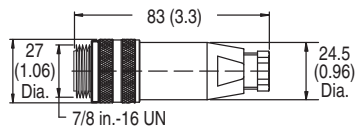
- Field installable
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations

Approximate Dimensions

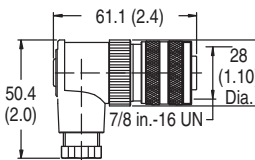
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



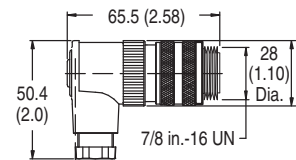
Straight
Internal Thread



Straight
External Thread



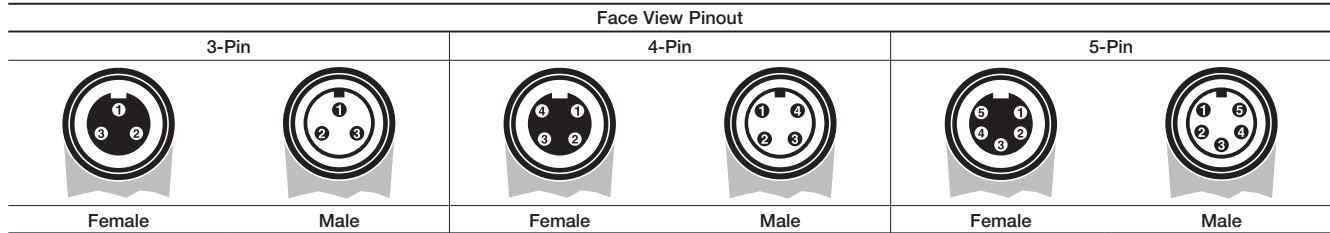
Right Angle
Internal Thread




Right Angle
External Thread

Cordsets & Field Attachables
Terminal Chambers, Mini Style
 Screw-Type, Field Attachable Connector

Pinout



Product Selection

Terminal Chambers 

No. of Pins	Cable Diameter [mm (in.)]	Assembly Rating	Thread Size	Cat. No.					
				Straight Female Internal Threads		Straight Male Internal Threads		Straight Male External Threads	
3-Pin	6.0...8.0 (0.23...0.31)	250V, 12 A	PG9	*	871A-TS3-N2	*	871A-TS3-NU2	*	871A-TS3-NM2
	10.0...12.0 (0.39...0.47)		PG13.5		871A-TS3-N1		871A-TS3-NU1		871A-TS3-NM1
4-Pin	6.0...8.0 (0.23...0.31)	250V, 9 A	PG9	*	871A-TS4-N1	*	871A-TS4-NU1	*	871A-TS4-NM1
	10.0...12.0 (0.39...0.47)		PG13.5		871A-TS4-N2		871A-TS4-NU2		871A-TS4-NM2
	12.0...14.0 (0.47...0.55)		PG16		871A-TS4-N3		871A-TS4-NU3		871A-TS4-NM3
5-Pin	6.0...8.0 (0.24...0.32)	250V, 9 A	PG9	*	871A-TS5-N1	*	871A-TS5-NU1	*	871A-TS5-NM1
	10.0...12.0 (0.39...0.47)		PG13.5		871A-TS5-N2		871A-TS5-NU2		871A-TS5-NM2
	12.0...14.0 (0.47...0.55)		PG16		871A-TS5-N3		871A-TS5-NU3		871A-TS5-NM3

* Available in right angle. Replace the **S** in the cat. no. with an **R** (i.e. 871A-TR3-N2)

Note: Stainless steel connector versions may be ordered by adding an **S** to the cat. no., e.g., 871AS-TS3-N2.

3-Cordsets

Cordsets & Field Attachables

Bulkhead Pass-Thru, Mini Style



Features

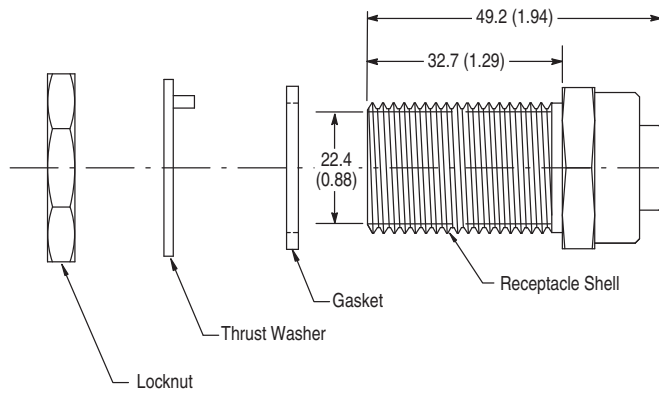
- Male to female bulkhead pass-thru provides flexibility in thru-panel installations
- 3-...6-pin mini versions for use in multiple applications with standard wiring or DeviceNet implementations

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Nickel-plated brass
Lock Nut	Nickel-plated brass
Contact Material	Gold-plated palladium/nickel
Gasket Material	Neoprene
Thrust Washer	Nylon
Connector Insert Material	PVC
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown
Operating Temperature [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout

Face View Pinout							
3-Pin		4-Pin		5-Pin		6-Pin	
Female	Male	Female	Male	Female	Male	Female	Male

Product Selection

Bulkhead Pass-Thru

No. of Pins	Assembly Rating	Cat. No.
3-Pin	600V 13 A	889A-CXN3-M3
4-Pin	600V, 8 A	889A-CXN4-M4
5-Pin	600V, 8 A	1485A-CXN5-M5
6-Pin	600V 8 A	889A-CXN6-M6

Note: Stainless steel connector versions may be ordered by adding an **S** to the cat. no., e.g., 871AS-TS3-N2.



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 PVC overmolded connectors and heavy duty STOOW-A cable, Allen-Bradley mini plus cordsets and patchcords provide secure connection for devices using up to 12 pins. Connectors can be straight or right angled and are physically keyed to prevent wiring mishaps. For bulkhead or

panel installation, Rockwell Automation also offers mini plus receptacles. All mini-plus connection options are UL Recognized and CSA Certified.

Rockwell Automation is continually expanding its connection system offerings. If our standard catalog does not contain the item that you need, or you have a special application, please contact your local Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Styles

Configurator3-30
 Cordsets & Patchcords3-32
 Receptacles.....3-36

Cordsets & Field Attachables
Mini-Plus Style
 Configurator

Cordset

889N F - 9 A F - 5
 a b c d e

a

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
R	Right Angle Female (Internal Threads)
U	Straight Male (Internal Threads)
V	Right Angle Male (Internal Threads)

b

Number of Pins	
Code	Description
7...10, 12	Number of Pins

c

Jacket Material	
Code	Description
A	PVC Cable
G	PVC Cable, Grey, Unshielded

d

Wire Gauge	
Code	Description
C	22 AWG (9) 22 AWG/(3) 18 AWG
E	18 AWG
F	16 AWG
G	5/18 & 2/20 AWG twisted/shielded

e

Cable Length	
Code	Description
Blank	Meters (0M3 = 0.3 m)

Patchcord

889N F - 7 A F N U - 2
 a b c d e f g

a

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
R	Right Angle Female (Internal Threads)

b

No. of Pins	
Code	Description
7...10, 12	No. of Pins

c

Jacket Material	
Code	Description
A	PVC Cable

d

Wire Gauge	
Code	Description
C	22 AWG (9) 22 AWG/(3) 18 AWG
E	18 AWG
F	16 AWG
G	5/18 & 2/20 AWG twisted/shielded

e

Male End Connector Style	
Code	Description
N	Mini QD

f

Male End Connector Type	
Code	Description
U	Straight Male (Internal Threads)
V	Right-Angle Male (Internal Threads)

g

Cable Length	
Code	Description
Blank	Meters (0M3 = 0.3 m)

Note: The Configurators are for reference only. Please do not use these to create a cat. no. as the result may be unavailable.

Receptacles

888N – F 7 A F I – 1F
 a b c d e f

a

Connector Type	
Code	Description
F	Straight Female (External Threads)
M	Straight Male (External Threads)

b

No. of Pins	
Code	Description
7...10, 12	No. of Pins

c

Wire Type	
Code	Description
A	PVC

d

Wire Gauge	
Code	Description
E	18 AWG
F	16 AWG

e

Mounting Threads	
Code	Description
1	1/2 in.-14 NPT

f

Cable Length	
Code	Description
F	Feet (1F5 = 1.5 ft)

3-Cordsets

Note: The Configurators are for reference only. Please do not use these to create a cat. no. as the result may be unavailable.

Cordsets and Patchcords, Mini-Plus Style

16 AWG, ST00W-A, 7- and 8-Pin



8-Pin Mini-Plus Cordset



8-Pin Mini-Plus Straight to Straight Patchcord

Features

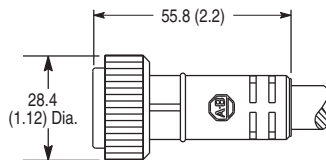
- Heavy duty ST00W 16 AWG cable
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- One-piece molded body design

Specifications

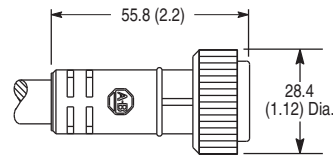
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Anodized aluminum with clear sealant, 16 AWG Epoxy-coated zinc, 18 AWG
Housing Material	Molded oil-resistant PVC
Contact Material	Gold-plated machined brass
Cable Type	Oil-resistant yellow PVC jacket, 16 or 18 AWG stranded copper, 600V or 300V; UL Recognized and CSA Certified, ST00W
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	7/c = 14 (0.55) 8/c = 15 (0.59)
Electrical	
Cable Rating	16 AWG: UL ST00W 105C 600V, CSA ST 105C FT2 18 AWG: UL AWM style 2517 or 2661 105C 300V, CSA AWM A/B I/II 105C 300V FT1
Assembly Rating	16 AWG: 600V, 7 A 18 AWG: 300V, 3 A
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown
Temperature Rating [C (F)]	-40...+105° (-40...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



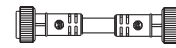
Straight Female



Straight Male



Example of Cordset







Example of Patchcord

Mating Components & Accessories

Description	Cat. No.	Page
Coupling Adaptor	889A-N2ADPT	3-162

Cordsets & Field Attachables
Cordsets and Patchcords, Mini-Plus Style
 16 AWG, ST00W-A, 7- and 8-Pin

Pinout and Color Code

Color Code	Face View Pinout			
	7-Pin		8-Pin	
				
	Female	Male	Female	Male
A	1 White/Black Tr 2 Black 3 White 4 Red	5 Orange 6 Blue 7 Green	1 Orange 2 Blue 3 White/Black Tr 4 Black	5 White 6 Red 7 Green 8 Red/Black Tr
B	1 Black 2 White 3 Blue 4 Brown	5 Grey* 6 Yellow* 7 Green	1 Red 2 White 3 Blue 4 Brown	5 Grey 6 Yellow 7 Green 8 Pink

* 20 AWG conductors

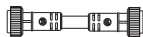
Product Selection

Cordsets



No. of Pins	Assembly Rating	Color Code	Cat. No.*	
			Straight Female	Straight Male
7-Pin	16 AWG, 600V, 7 A	A	889N-F7AF-2	889N-U7AF-2
	(5) 18 AWG/(2) 20 AWG, 300V, 3 A	B	889N-F7AG-2	—
8-Pin	16 AWG, 600V, 7 A	A	889N-F8AF-2	889N-U8AF-2
	18 AWG, 300V, 3 A	B	889N-F8AE-2	—

Patchcords



No. of Pins	Assembly Rating	Cat. No.*	
		Straight Female	Straight Male
7-Pin	16 AWG, 600V, 7 A	889N-F7AFNU-2	—
8-Pin	16 AWG 600V 7 A	889N-F8AFNU-2	—

* The 2 at the end of the cat. no. is for 2 m (6.5 ft) cable length. Replace the 2 with 1 (1 m (3.3 ft)), 3 (3 m (9.8 ft)), 5 (5 m (16.4 ft)), or 10 (10 m (32.8 ft)) for standard cable lengths.

3-Cordsets

Cordsets and Patchcords, Mini-Plus Style

16 AWG, STOOW-A, 9-, 10-, and 12-Pin



10-Pin Mini-Plus Cordset

Features

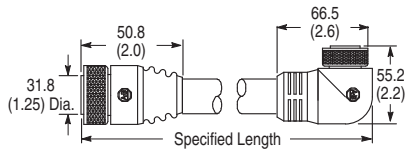
- Heavy duty STOOW 16 AWG cable
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- One-piece molded body design

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Anodized aluminum with clear sealant, 16 AWG Epoxy-coated zinc, 18 AWG
Housing Material	Molded oil-resistant PVC
Contact Material	Gold-plated machined brass
Cable Type	Oil-resistant yellow PVC jacket, 16 or 18 AWG stranded copper, 600V or 300V; UL Recognized and CSA Certified, STOOW
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	16 AWG 9/c = 17 (0.67) 16 AWG 10/c = 17 (0.67) 16 AWG 12/c = 18 (0.71) 18/22 AWG 12/c = 9 (0.36)
Electrical	
Cable Rating	16 AWG: UL STOOW 105C 600V, CSA ST 105C FT2 18 AWG: UL AWM style 2517 or 2661 105C 300V, CSA AWM A/B I/II 105C 300V FT1
Assembly Rating	16 AWG: 600V, 7 A 18 AWG: 300V, 3 A
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown
Temperature Rating [C (F)]	-40...+105° (-40...+221°)

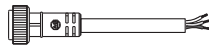
Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

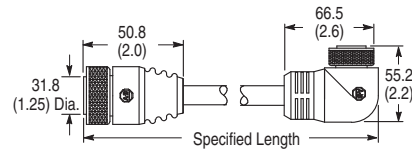


16 AWG Straight Internal Thread

16 AWG Right Angle Internal Thread

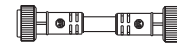


Example of Cordset



18 AWG Straight Internal Thread

18 AWG Right Angle Internal Thread









Example of Patchcord

Mating Components & Accessories

Description	Cat. No.	Page
Coupling Adaptor	889A-N3ADPT	3-162

Cordsets & Field Attachables
Cordsets and Patchcords, Mini-Plus Style
 16 AWG, ST00W-A, 9-, 10-, and 12-Pin

Pinout and Color Code

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

* 18 AWG conductors

Product Selection

Cordsets 

No. of Pins	Assembly Rating	Color Code	Cat. No.*	
			Straight Female	Straight Male
9-Pin	16 AWG, 600V, 7 A	A	889N-F9AF-2	889N-U9AF-2
10-Pin			889N-F10AF-2	889N-U10AF-2
12-Pin			889N-F12AF-2	889N-U12AF-2
	(3) 18 AWG/(9) 22 AWG, 300V, 3 A	B	889N-F12AC-2	—

Patchcords 

No. of Pins	Assembly Rating	Cat. No.*	
		Straight Female Straight Male	Straight Female Right Angle Male
9-Pin	16 AWG, 600V, 7 A	889N-F9AFNU-2	—
10-Pin	16 AWG, 600V, 7 A	889N-F10AFNU-2	889N-F10AFNV-2
	(3) 18 AWG/(9) 22 AWG, 300V, 3 A	889N-F10ACNU-2	889N-F10ACNV-2
12-Pin	16 AWG, 600V, 7 A	889N-F12AFNU-2	889N-F12AFNV-2
	(3) 18 AWG/(9) 22 AWG, 300V, 3 A	889N-F12ACNU-2	889N-F12ACNV-2
Thread adaptor to couple standard internally threaded ends.		889A-N3ADPT	889A-N3ADPT

* The **2** at the end of the cat. no. is for 2 m (6.5 ft) cable length. Replace the **2** with **1** (1 m (3.3 ft)), **3** (3 m (9.8 ft)), **5** (5 m (16.4 ft)), or **10** (10 m (32.8 ft)) for standard cable lengths.

3-Cordsets

Cordsets & Field Attachables
Receptacles, Mini-Plus Style
 16 AWG, PVC, 7- and 8-Pin



7-Pin Mini-Plus Female Receptacle

Features

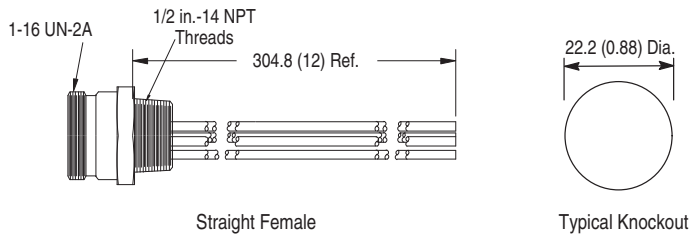
- 16 AWG conductors
- Female bulkhead receptacles
- 3-, 4-, 5-, or 6-pin configuration
- 1/2 in. 14 NPT threads

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Receptacle Shell Material	Machined anodized aluminum with clear sealant
Connector Insert Material	PVC
Contact Material	Gold-plated machined brass
Insulation Material	Oil-resistant yellow PVC jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, ST00W
Electrical	
Assembly Rating	16 AWG: 600V AC/DC, 7 A 18 AWG: 300V AC/DC, 4.9 A
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown
Operating Temperature [C (F)]	-30...+105 ° (-22...+221 °)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.







Mating Components & Accessories

Description	Cat. No.	Page
1/2 inch-14 NPT mounting nut*	889A-U1NUT-10	3-162
1/2 inch-14 NPT flat sealing washer*	889A-U1FSL-10	3-162

* Sold in bags of 10.


Pinout and Color Code

Color Code	Face View Pinout			
	7-Pin		8-Pin	
				
	Female	Male	Female	Male
A	1 White/Black Tr 2 Black 3 White 4 Red	5 Orange 6 Blue 7 Green	1 Orange 2 Blue 3 White/Black Tr 4 Black	5 White 6 Red 7 Green 8 Red/Black Tr

Product Selection

16 AWG Receptacles 

No. of Pins	Assembly Rating	Color Code	Thread Size	Cat. No.*	
				Straight Female External Threads	Straight Male External Threads
7-Pin	600V AC/DC, 7 A	A	1/2 inch 14 NPT	888N-F7AF1-1F	888N-M7AF1-1F
8-Pin				888N-F8AF1-1F	888N-M8AF1-1F

18 AWG Receptacles 

No. of Pins	Assembly Rating	Color Code	Thread Size	Cat. No.*	
				Straight Female External Threads	Straight Male External Threads
7-Pin	300V AC/DC, 4.9 A	A	1/2 inch 14 NPT	888N-F7AE1-1F	888N-M7AE1-1F
8-Pin				888N-F8AE1-1F	888N-M8AE1-1F

* The **1F** at the end of the cat. no. is for 1 ft cable length. Replace the **1** with **3** (3 ft) for other standard cable lengths.

3-Cordsets

Cordsets & Field Attachables
Receptacles, Mini-Plus Style
 16 AWG, PVC 9-, 10-, and 12-Pin



12-Pin Mini-Plus Male Receptacle

Features

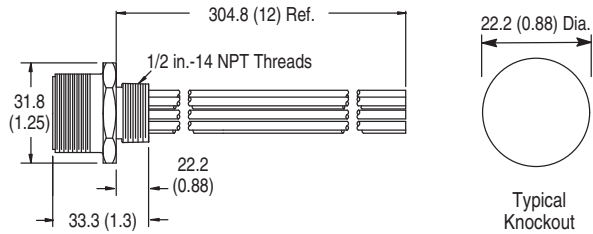
- 16 AWG conductors
- Female bulkhead receptacles
- 3-, 4-, 5-, or 6-pin configuration
- 1/2 inch-14 NPT threads

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Receptacle Shell Material	Machined anodized aluminum with clear sealant
Connector Insert Material	PVC
Contact Material	Gold-plated machined brass
Insulation Material	Oil-resistant yellow PVC jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, STOOW
Electrical	
Assembly Rating	9-pin: 16 AWG, 600V, 7 A; 18 AWG, 300V, 4.9 A 10-pin: 16 AWG, 600V, 7 A; 18 AWG, 300V, 4.9 A 12-pin: 16 AWG, 600V, 5 A; 18 AWG, 300V, 3.5 A
Environmental	
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown
Operating Temperature [C (F)]	-30...+105 ° (-22...+221 °)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.









Mating Components & Accessories

Description	Cat. No.	Page
1/2 inch-14 NPT mounting nut*	889A-U1NUT-10	3-162
1/2 inch-14 NPT flat sealing washer*	889A-U1FSL-10	3-162

* Sold in bags of 10.

Cordsets & Field Attachables
Receptacles, Mini-Plus Style
 16 AWG, PVC, 9-, 10-, and 12-Pin


Pinout and Color Code

Color Code	Face View Pinout					
	9-Pin		10-Pin		12-Pin	
						
Female	Male	Female	Male	Female	Male	
A	1 Orange 2 Blue 3 Red/Black Tr 4 Green/Black Tr 5 White	6 Red 7 Green 8 White/Black Tr 9 Black	1 Orange 2 Blue 3 White/Black Tr 4 Red/Black Tr 5 Green/Black Tr	6 Orange/Black Tr 7 Red 8 Green 9 Black 10 White	1 Orange 2 Blue 3 White/Black Tr 4 Red/Black Tr 5 Green/Black Tr 6 Orange/Black Tr	7 Blue/Black Tr 8 Black/White Tr 9 Green 10 Red 11 White 12 Black

Product Selection

16 AWG Receptacles 

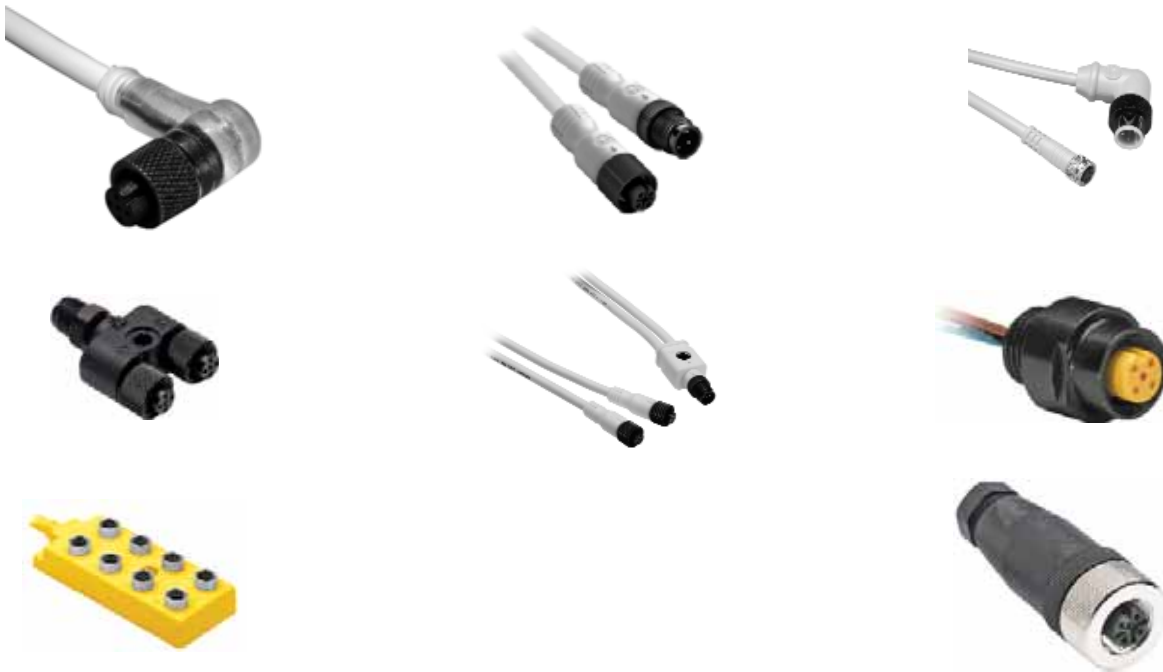
No. of Pins	Assembly Rating	Color Code	Thread Size	Cat. No.*	
				Straight Female External Threads	Straight Male External Threads
9-Pin	600V, 7 A	A	1/2 inch-14 NPT	888N-F9AF1-1F	888N-M9AF1-1F
10-Pin				888N-F10AF1-1F	888N-M10AF1-1F
12-Pin	600V, 5 A			888N-F12AF1-1F	888N-M12AF1-1F

18 AWG Receptacles 

No. of Pins	Assembly Rating	Color Code	Thread Size	Cat. No.*	
				Straight Female External Threads	Straight Male External Threads
9-Pin	300V, 4.9 A	A	1/2 inch-14 NPT	888N-F9AE1-1F	888N-M9AE1-1F
10-Pin				888N-F10AE1-1F	888N-M10AE1-1F
12-Pin	300V, 3.5 A			888N-F12AE1-1F	888N-M12AE1-1F

* The **1F** at the end of the cat. no. is for 1 ft cable length. Replace the **1** with **3** (3 ft) for other standard cable lengths.

3-Cordsets



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 4- or 5-pin overmolded connectors, Allen-Bradley DC micro quick disconnect cables provide secure connection for proximity sensors, limit switches, photoelectric sensors and other field devices. Connectors can be straight or right-angled and are physically keyed to prevent wiring mishaps. Allen-Bradley DC micro style 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)
- **Y cables:** A single cable with male connector that splits into two female connectors, allowing connection of two devices to a single I/O port

Available with straight or right angle connectors, Allen-Bradley micro quick-disconnect cordsets, patchcords, and V cables feature a choice of jacket colors and materials for a variety of applications and environments. Some models include braided shielding for noise reduction and LEDs for power and output status indication.

For bulkhead or panel installation, Allen-Bradley DC micro receptacles are also offered. These 3- or 4-wire die cast connectors, available in male or female versions, are UL Recognized and CSA Certified. Ideal for use in enclosures, DC micro receptacles also allow for custom wiring configurations.

Allen-Bradley passive distribution boxes interface multiple devices to a control system through a single cable or quick-disconnect pigtail. Each distribution box features internal-thread female receptacles (4, 6, or 8, depending on model) for quick and easy connection with quick-disconnect mating plugs. LED versions are available for use with PNP (sourcing) inputs.

Available in male and female versions, terminal chambers or field attachable connectors are passive field-installable connectors for use with raw cable. Allen-Bradley 4- and 5-pin DC micro style terminal chambers contain screw terminals or insulation displacement connectors for quick and easy assembly of custom QD cables on the plant floor. Terminal chambers can be straight or right-angled and are available for various cable diameters.

Rockwell Automation is continually expanding its connection system offerings. If our standard catalog does not contain the item that you need, or you have a special application, please contact your local Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Styles

Configurator	3-42
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Cordsets & Field Attachables
DC Micro Style
 Configurator

Cordset

889D S - F 4 A C - - 10
 a b c d e f g

b

Connector Type	
Code	Description
A	Straight Female, LED—NPN
B	Straight Female, LED—PNP
E	Right Angle Male (External Threads)
F	Straight Female (Internal Threads)
M	Straight Male (External Threads)
N	Right Angle Female, LED—NPN
P	Right Angle Female, LED—PNP
R	Right Angle Female (Internal Threads)

c

Number of Pins	
Code	Description
3...5, 8	Number of Pins

d

Jacket Material	
Code	Description
A	PVC Cable, Yellow, Unshielded
B	PVC Cable, Black, Unshielded
E	PVC Cable, Yellow, Braided Shield
F	PVC Cable, Yellow, Foil Shield
G	PVC Cable, Grey, Unshielded
H	TPE or Toughlink Cable, Unshielded
L	PVC Cable, Blue, Unshielded
U	PUR Cable, Yellow, Unshielded
W	ToughWeld Cable, Unshielded

e

Wire Gauge	
Code	Description
C	22 AWG
D	20 AWG
E	18 AWG
J	18 AWG, Flex

f

Special Characteristics	
Code	Description
Blank	Standard Wiring
Q	Quadplex Wiring
K	KwikLink Auxiliary Power Wiring
C	Coiled Cable

g

Cable Length	
Code	Description
Blank	Meters *

Patchcord

889D S - F 4 A C D E - - 2
 a b c d e f g h i

a

Coupling Nut Material	
Code	Description
Blank	Standard Coupling Nut (Epoxy-Coated Zinc)
N	Nickel-Plated Brass
S	Stainless Steel

b

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
R	Right Angle Female (Internal Threads)

c

No. of Pins	
Code	Description
3...5, 8	No. of Pins

d

Jacket Material	
Code	Description
A	PVC Cable, Yellow, Unshielded
B	PVC Cable, Black, Unshielded
E	PVC Cable, Yellow, Braided Shield
F	PVC Cable, Yellow, Foil Shield
G	PVC Cable, Grey, Unshielded
H	TPE or Toughlink Cable, Unshielded
L	PVC Cable, Blue, Unshielded
U	PUR Cable, Yellow, Unshielded
W	ToughWeld Cable, Unshielded

e

Wire Gauge	
Code	Description
C	22 AWG
D	20 AWG
E	18 AWG
J	18 AWG, Flex

f

Male End Connector Style	
Code	Description
D	DC Micro QD

g

Male End Connector Type	
Code	Description
E	Right Angle Male (External Threads)
M	Straight Male (External Threads)

h

Special Characteristics	
Code	Description
Blank	Standard Wiring
K	KwikLink Auxiliary Power Wiring
J	Drain Connected to Pin 5
Q	Quadplex Wiring
V	Pin 2 to Pin 4 Wiring

i

Cable Length	
Code	Description
Blank	Meters *

* To indicate desired length in meters (all lengths are available) add 0M3 for 0.3 m (1 ft) or 10 for 10 m (32.8 ft) (example: 889DS-F4AC-10).

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.

Receptacles

888D - F 4 A C 1 - OM3
 a b c d e f

a

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
M	Straight Male (External Threads)

b

No. of Pins	
Code	Description
3...5, 8	No. of Pins

c

Wire Type	
Code	Description
A	PVC

d

Wire Gauge	
Code	Description
C	22 AWG
E	18 AWG

e

Mounting Threads	
Code	Description
1	1/2 inch-14 NPT
2	1/4 inch-18 NPT
3	PG9
5	Rear mount
6	M14 x 1

f

Cable Length	
Code	Description
Blank	Meters *

3-Cordsets

* To indicate desired length in meters (all lengths are available) add 0M3 for 0.3 m (1 ft) or 10 for 10 m (32.8 ft) (example: 889DS-F4AC-10).

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.

Cordsets and Patchcords, DC Micro Style

18 and 22 AWG, Yellow, Black, or Blue PVC



4-Pin DC Micro Cordset

Features

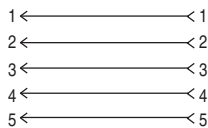
- Ratcheting coupling nut
- Subtle black or highly visible yellow PVC jacket offers good oil and chemical resistance
- Blue jacket models for intrinsically safe applications
- “-Q” models specifically wired for Quadplex applications
- “-V” models allow wiring of devices using pin 2 for output into standard single-point distribution boxes and IP67 I/O

Specifications

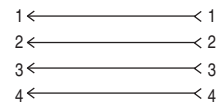
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC jacket, 18 or 22 AWG conductors, 300V, UL Recognized and CSA Certified
Bend Radius	10 x diameter
Cable Diameter [mm (in.)]	2/c = 5 (0.21) 3/c = 5 (0.21) 4/c = 5 (0.21) 5/c = 6.5 (0.25) 4/c (18 AWG) = 6.5 (0.25)
Electrical	
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
Environmental	
Enclosure Type Rating	NEMA 6P, 1200 psi (8270 kPa) washdown, IP69K
Temperature Rating [C (F)]	-20...+105 ° (-4...+221 °)

Typical Wiring Diagrams

Standard Models

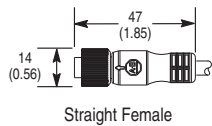


889D-*4ACD*-V* Models

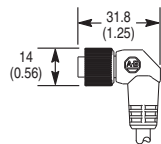


Approximate Dimensions

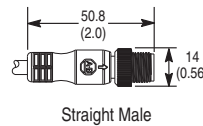
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



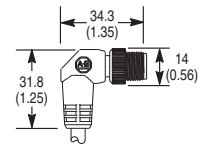
Straight Female



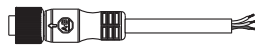
Right Angle Female



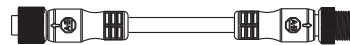
Straight Male



Right Angle Male



Example of Cordset



Example of Patchcord

Cordsets & Field Attachables
Cordsets and Patchcords, DC Micro Style
 18 and 22 AWG, Yellow, Black, or Blue PVC

Pinout and Color Code

Color Code	Face View Pinout							
	2-Pin		3-Pin		4-Pin		5-Pin	
A	1 NA 2 NA 3 Brown	4 Blue 5 NA	1 Brown 2 NA 3 Blue	4 Black 5 NA	1 Brown 2 White 3 Blue	4 Black 5 NA	1 Brown 2 White 3 Blue	4 Black 5 Grey
B	1 Brown 2 NA 3 NA	4 Blue 5 NA	—	—	—	—	—	—

Product Selection

Cordsets

No. of Pins	Color Code	Jacket Color	Wire Size [AWG]	Cat. No.*			
				Straight Female	Right Angle Female	Straight Male	Right Angle Male
2-Pin	A	Yellow	22	889D-F2AC-2	889D-R2AC-2	889D-M2AC-2	889D-E2AC-2
	B	Black		889D-F2BC-Q2	889D-R2BC-Q2	—	—
3-Pin	A	Yellow	18	889D-F3AC-2	889D-R3AC-2	889D-M3AC-2	889D-E3AC-2
4-Pin	A	Yellow		22	889D-F4AC-2	889D-R4AC-2	889D-M4AC-2
		Yellow	889D-F4AE-2		889D-R4AE-2	889D-M4AE-2	889D-E4AE-2
		Black	889D-F4BC-2	889D-R4BC-2	889D-M4BC-2	889D-E4BC-2	
5-Pin	A	Blue	22	889D-F4LC-2	889D-R4LC-2	889D-M4LC-2	889D-E4LC-2
		Yellow		889D-F5AC-2	889D-R5AC-2	889D-M5AC-2	889D-E5AC-2
		Black	889D-F5BC-2	889D-R5BC-2	889D-M5BC-2	889D-E5BC-2	

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Patchcords

No. of Pins	Color Code	Jacket Color	Wire Size [AWG]	Cat. No.*			
				Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
2-Pin	A	Yellow	22	889D-F2ACDM-2	889D-F2ACDE-2	889D-R2ACDM-2	889D-R2ACDE-2
	B	Black		889D-F2BCDM-Q2	889D-F2BCDE-Q2	889D-R2BCDM-Q2	889D-R2BCDE-Q2
3-Pin	A	Yellow	22	889D-F3ACDM-2	889D-F3ACDE-2	889D-R3ACDM-2	889D-R3ACDE-2
4-Pin	A	Yellow	22	889D-F4ACDM-2	889D-F4ACDE-2	889D-R4ACDM-2	889D-R4ACDE-2
	A†	Yellow		889D-F4ACDM-V2	889D-F4ACDE-V2	889D-R4ACDM-V2	889D-R4ACDE-V2
	A	Yellow	18	889D-F4AEDM-2	889D-F4AEDE-2	889D-R4AEDM-2	889D-R4AEDE-2
	A	Black		889D-F4BCDM-2	889D-F4BCDE-2	889D-R4BCDM-2	889D-R4BCDE-2
5-Pin	A	Blue	22	889D-F4LCDM-2	889D-F4LCDE-2	889D-R4LCDM-2	889D-R4LCDE-2
		Yellow		889D-F5ACDM-2	889D-F5ACDE-2	889D-R5ACDM-2	889D-R5ACDE-2
		Black	889D-F5BCDM-2	889D-F5BCDE-2	889D-R5BCDM-2	889D-R5BCDE-2	

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with **OM3** (0.3 m), 1 (1 m), 5 (5 m), or 10 (10 m) for standard cable lengths.

† See Wiring Diagrams on page 3-44

Note: Stainless steel connector versions may be ordered by adding an **S** to the cat. no., e.g., 889DS-F4AC-__.

3-Cordsets

Cordsets and Patchcords, DC Micro Style

22 AWG, Yellow PVC Shielded



4-Pin DC Micro Cordset

Specifications

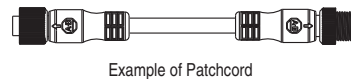
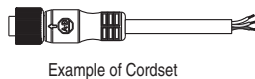
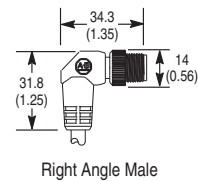
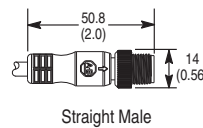
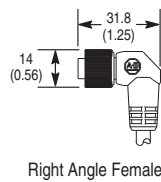
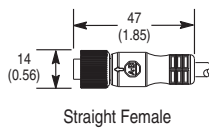
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Yellow oil-resistant PVC jacket, 22 AWG conductors, 300V, UL Recognized and CSA Certified
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	4/c = 5 (0.21) 5/c = 6.5 (0.25)
Electrical	
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
Environmental	
Enclosure Type Rating	NEMA 6P, 1200 psi (8270 kPa) washdown, IP69K
Temperature Rating [C (F)]	-20...+105 ° (-4...+221 °)

Features

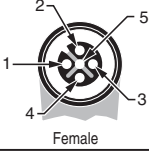
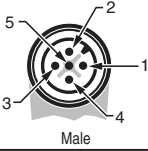
- Ratcheting coupling nut
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Shielding reduces noise in signal transmitted through cable
- Braided models exhibit improved durability and abrasion resistance
- “-J” models provide shield grounding through pin 5 for ease of grounding

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout and Color Code

Color Code	Face View Pinout			
	4-Pin		5-Pin	
	 <p style="text-align: center;">Female</p>		 <p style="text-align: center;">Male</p>	
A	1 Brown 2 White 3 Blue	4 Black 5 NA	1 Brown 2 White 3 Blue	4 Black 5 Grey
B	1 Brown 2 White 3 Blue	4 Black 5 Drain wire	—	

Product Selection

Cordsets 

No. of Pins	Color Code	Shield	Wire Size [AWG]	Cat. No.*			
				Straight Female	Right Angle Female	Straight Male	Right Angle Male
4-Pin	A	Braided Shield	22	889D-F4EC-2	889D-R4EC-2	889D-M4EC-2	889D-E4EC-2
	A	Foil Shield		889D-F4FC-2	889D-R4FC-2	889D-M4FC-2	889D-E4FC-2
	B			889D-F5FC-J2	889D-R5FC-J2	889D-M5FC-J2	889D-E5FC-J2
5-Pin	A	Shielded		889D-F5EC-2	889D-R5EC-2	889D-M5EC-2	889D-E5EC-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **5** (5 m) or **10** (10 m) for standard cable lengths.

Patchcords 

No. of Pins	Color Code	Shield	Wire Size [AWG]	Cat. No.*			
				Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
4-Pin	A	Braided Shield	22	889D-F4ECDM-2	889D-F4ECDE-2	889D-R4ECDM-2	889D-R4ECDE-2
	A	Foil Shield		889D-F4FCDM-2	889D-F4FCDE-2	889D-R4FCDM-2	889D-R4FCDE-2
	B			889D-F5FCDM-J2	889D-F5FCDE-J2	889D-R5FCDM-J2	889D-R5FCDE-J2
5-Pin	A	Braided Shield		889D-F5ECDM-2	889D-F5ECDE-2	889D-R5ECDM-2	889D-R5ECDE-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **OM3** (0.3 m), **1** (1 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 bulletin number (e.g. 889DS-F4EC-*).

3-Cordsets

Cordsets and Patchcords, DC Micro Style

18 and 22 AWG, PUR, TPE, or TPR



4-Pin DC Micro Cordset

Features

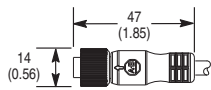
- PUR jacket provides good oil and chemical resistance
- TPE jacket material for good oil, chemical, and weld slag resistance
- 8-pin/7-wire configuration for Sipha safety switches and other applications
- Ratcheting coupling nuts for vibration resistance

Specifications

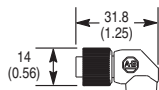
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC jacket, 18 & 22 AWG or 24 AWG conductors, 300V; UL Recognized and CSA Certified
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	4/c (PUR): 5 (0.21) 4/c (18 AWG TPE): 7 (0.28) 4/c (22 AWG TPE): 4.9 (0.19) 5/c: 6.5 (0.25) 7/c: 7.4 (0.29) 8/c: 7.4 (0.29)
Electrical	
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 8/c (PUR): UL AWM style 20866 90C 300V, CSA II A 90C 300V TPE: UL AWM style 20327 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1, UV oil and water resistant
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown, IP69K
Temperature Rating [C (F)]	PUR models: -20...+80 ° (-4...+176 °) TPE models: -50...+105 ° (-58...+221 °) TPR models: -25...+125 ° (-13...+256 °)

Approximate Dimensions

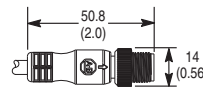
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



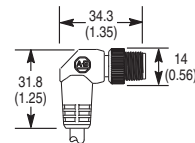
Straight Female



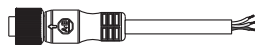
Right Angle Female



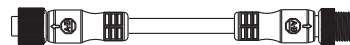
Straight Male



Right Angle Male



Example of Cordset



Example of Patchcord

Cordsets & Field Attachables
Cordsets and Patchcords, DC Micro Style
 18 and 22 AWG, PUR, TPE, or TPR

Pinout and Color Code

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

Product Selection

Cordsets

No. of Pins	Cable Type	Wire Size, AWG	Assembly Rating	Color Code	Cat. No.*			
					Straight Female	Right Angle Female	Straight Male	Right Angle Male
3-Pin	PUR	18	250V, 4 A	A	889D-F3UE-2	889D-R3UE-2	889D-M3UE-2	889D-E3UE-2
4-Pin	TPE	18			889D-F4HJ-2	889D-R4HJ-2	889D-M4HJ-2	889D-E4HJ-2
		22			889D-F4HL-2	889D-R4HL-2	889D-M4HL-2	889D-E4HL-2
	PUR	22			889D-F4UC-2	889D-R4UC-2	889D-M4UC-2	889D-E4UC-2
		18			889D-F4UE-2	889D-R4UE-2	889D-M4UE-2	889D-E4UE-2
5-Pin	PUR	22			889D-F5UC-2	889D-R5UC-2	889D-M5UC-2	889D-E5UC-2
8-Pin	TPR	24	30V AC/36V DC 1.5 A	B	889D-F8AC-2	—	—	—
	PUR	24	—		889D-F8AB-2	889D-R8AB-2	889D-M8AB-2	889D-E8AB-2
	PVC Shielded	24	—		889D-F8FB-2	889D-R8FB-2	889D-M8FB-2	—

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Patchcords

No. of Pins	Cable Type	Wire Size, AWG	Assembly Rating	Color Code	Cat. No.*			
					Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin	PUR	18	250V, 4 A	A	889D-F3UEDM-2	889D-F3UEDE-2	889D-R3UEDM-2	889D-R3UEDE-2
4-Pin	TPE	22			889D-F4HJDM-2	889D-F4HJDE-2	889D-R4HJDM-2	889D-R4HJDE-2
		22			889D-F4HLDM-2	889D-F4HLDE-2	889D-R4HLDM-2	889D-R4HLDE-2
	PUR	22			889D-F4UCDM-2	889D-F4UCDE-2	889D-R4UCDM-2	889D-R4UCDE-2
		18			889D-F4UEDM-2	889D-F4UEDE-2	889D-R4UEDM-2	889D-R4UEDE-2
5-Pin	PUR	22			889D-F5UCDM-2	889D-F5UCDE-2	889D-R5UCDM-2	889D-R5UCDE-2
8-Pin	PUR	24	30V AC/36V DC 1.5 A	B	889D-F8ABDM-2	889D-F8ABDE-2	889D-R8ABDM-2	889D-R8ABDE-2
8-Pin	PVC Shielded	24	—		889D-F8FBDM-2	889D-F8FBDE-2	889D-R8FBDM-2	889D-R8FBDE-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with OM3 (0.3 m), 1 (1 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 bulletin number (e.g. 889DS-F4HJ-2).

3-Cordsets

Cordsets and Patchcords, DC Micro Style

18 and 22 AWG, ToughLink™ or ToughWeld™



4-Pin DC Micro Cordset

Features

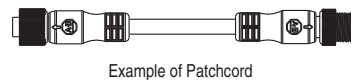
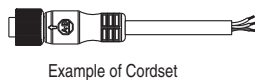
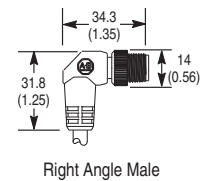
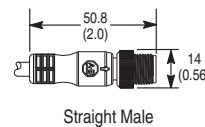
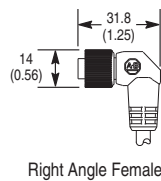
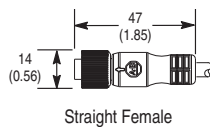
- Ratcheting coupling nut for vibrating resistance
- ToughLink TPE yellow jacket offers excellent oil and chemical resistance
- ToughWeld CPE yellow jacket provides excellent resistance to weld slag
- Heavy duty construction for rugged environments

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	Molded oil-resistant santoprene body
Contact Material	Gold over nickel-plated brass
Cable Type	Allen-Bradley ToughLink TPE or ToughWeld CPE yellow jacket, 18 or 22 AWG conductors, 300V; UL Recognized and CSA Certified
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	ToughLink: 8 (0.32) ToughWeld: 9 (0.35)
Electrical	
Cable Rating	ToughLink: UL AWM style 20328 600V VW-1 105C to -50C water resistant, CSA AWM I/II A/B 105C 600V FT2 ToughWeld: UL -50C SJOOW 90C dry and 60C water resistant, CSA -50C SJOOW 90C FT1
Assembly Rating	250V, 3 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown, IP69K
Temperature Rating [C (F)]	-50...+105 ° (-58...+221 °)

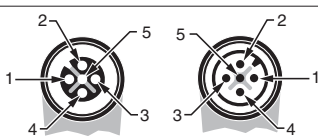
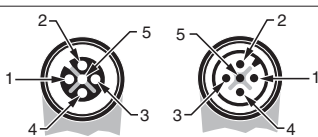
Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Cordsets & Field Attachables
Cordsets and Patchcords, DC Micro Style
 18 and 22 AWG, ToughLink™ or ToughWeld™

Pinout and Color Code

Face View Pinout	
4-Pin	
	
Color Code	A
1 Brown 2 White	3 Blue 4 Black

Product Selection

Cordsets 

No. of Pins	Material	Wire Size, AWG	Assembly Rating	Color Code	Cat. No.*			
					Straight Female	Right Angle Female	Straight Male	Right Angle Male
4-Pin	ToughLink (TPE)	22	250V, 4 A	A	889D-F4HC-2	889D-R4HC-2	889D-M4HC-2	889D-E4HC-2
	ToughWeld (CPE)	18			889D-F4WE-2	889D-R4WE-2	889D-M4WE-2	889D-E4WE-2
	ToughLink	18			889D-F4HE-2	889D-R4HE-2	889D-M4HE-2	889D-E4HE-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Patchcords 

No. of Pins	Material	Wire Size, AWG	Assembly Rating	Color Code	Cat. No.*			
					Straight Female	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
4-Pin	ToughLink (TPE)	22	250V, 4 A	A	889D-F4HCDM-2	889D-F4HCDE-2	889D-R4HCDM-2	889D-R4HCDE-2
	ToughWeld (CPE)	18			889D-F4WEDM-2	889D-F4WEDE-2	889D-R4WEDM-2	889D-R4WEDE-2
	ToughLink	18			889D-F4HEDM-2	889D-F4HEDE-2	889D-R4HEDM-2	889D-R4HEDE-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with **OM3** (0.3 m), **1** (1 m), **5** (5 m), or **10** (10 m) for standard cable lengths.

3-Cordsets

Cordsets and Patchcords, DC Micro Style

PLTC, 18 and 22 AWG, Grey PVC



4-Pin DC Micro Cordset

Features

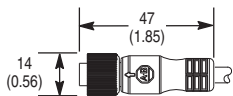
- Heavy duty power limited tray cable (PLTC) 18 AWG cable
- PVC jacket offers good oil and chemical resistance
- 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

Specifications

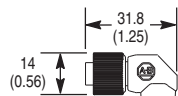
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant grey PVC jacket, 18 or 22 AWG conductors, 300V UL Listed and CSA Certified
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	4/c = 5.5 (0.22) 5/c = 6.1 (0.24) 4/c (18 AWG) = 6.6 (0.25)
Electrical	
Cable Rating	UL PLTC AWM Style 2661VW-1 105C 300V, CSA AWM A/B 1/11 80C 300V FT1, UV oil and water resistant
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	IP67 & IP69K
Temperature Rating [C (F)]	-20...+105 (-4...+221)

Approximate Dimensions

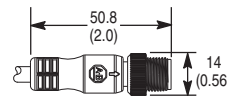
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



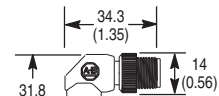
Straight Female



Right Angle Female



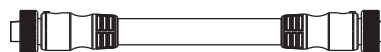
Straight Male



Right Angle Male



Example of Cordset



Example of Cordset

Pinout and Color Code

Color Code	Face View Pinout					
	2-Pin	3-Pin	4-Pin		5-Pin	
Female	Male	Female		Male		
A	1 NA 2 NA 3 Brown 4 Blue 5 NA	1 Brown 2 NA 3 Blue 4 Black 5 NA	1 Brown 2 White 3 Blue	4 Black 5 NA	1 Brown 2 White 3 Blue	4 Black 5 Grey

Product Selection

Cordsets

No. of Pins	Wire Size, AWG	Cat. No.*			
		Straight Female (Internal Threads)	Right Angle Female (Internal Threads)	Straight Male w/External Threads	Right Angle Male w/External Threads
2-pin	22	889D-F2GC-2	889D-R2GC-2	889D-M2GC-2	889D-E2GC-2
3-pin		889D-F3GC-2	889D-R3GC-2	889D-M3GC-2	889D-E3GC-2
4-pin		889D-F4GC-2	889D-R4GC-2	889D-M4GC-2	889D-E4GC-2
	18	889D-F4GE-2	889D-R4GE-2	889D-M4GE-2	889D-E4GE-2
5-pin	22	889D-F5GC-2	889D-R5GC-2	889D-M5GC-2	889D-E5GC-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **5** (5 m) or **10** (10 m) for standard cable lengths.

Patchcords

No. of Pins	Wire Size, AWG	Cat. No.*			
		Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
2-pin	22	889D-F2GCDM-2	889D-F2GCDE-2	889D-R2GCDM-2	889D-R2GCDE-2
3-pin		889D-F3GCDM-2	889D-F3GCDE-2	889D-R3GCDM-2	889D-R3GCDE-2
4-pin		889D-F4GCDM-2	889D-F4GCDE-2	889D-R4GCDM-2	889D-R4GCDE-2
	18	889D-F4GEDM-2	889D-F4GEDE-2	889D-R4GEDM-2	889D-R4GEDE-2
5-pin	22	889D-F5GCDM-2	889D-F5GCDE-2	889D-R5GCDM-2	889D-R5GCDE-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **5** (5 m) or **10** (10 m) for standard cable lengths.

3-Cordsets

Cordsets and Patchcords, DC Micro Style

20 and 22 AWG, LED or Coiled



4-Pin DC Micro Cordset

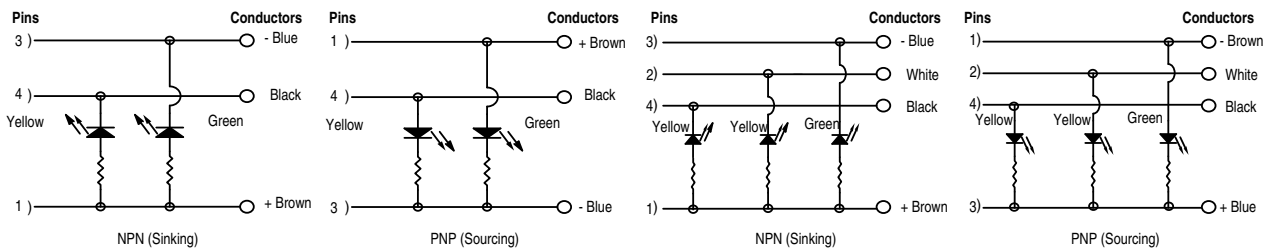
Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	Molded oil-resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC jacket, 20 or 22 AWG stranded copper, 300V, UL Recognized and CSA Certified
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	LED: 5 (0.2) Coiled: 7.1 (0.28)
Electrical	
Cable Rating	LED models: UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant
Assembly Rating	30V, 4 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P
Temperature Rating [C (F)]	-20...+105 ° (-4...+221 °)

Features

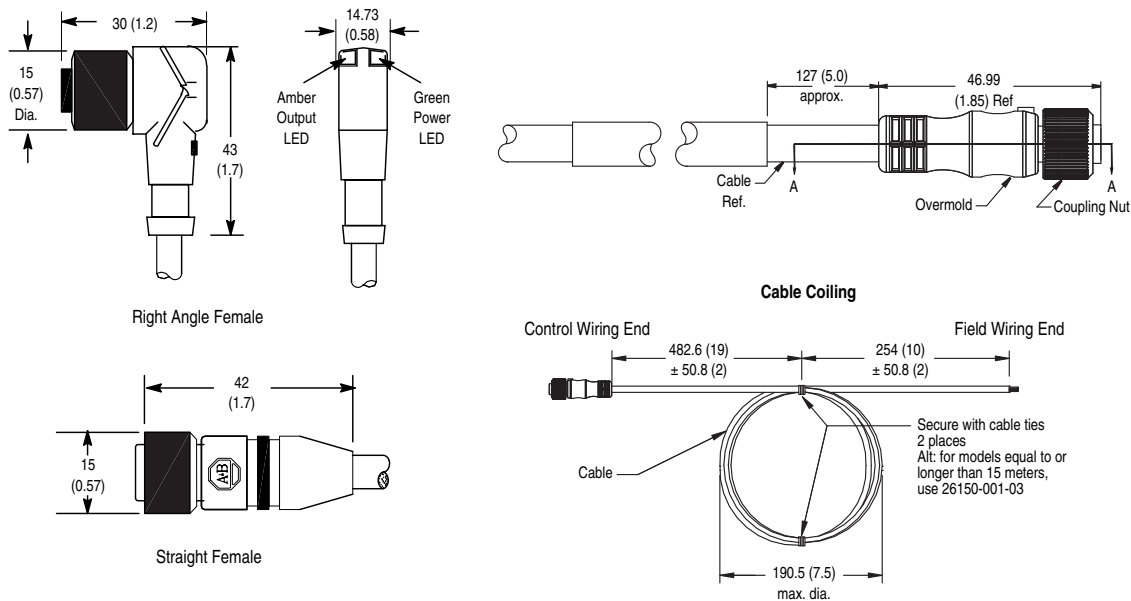
- Coil provides retractable cable for moving applications
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- One-piece molded body design

Wiring Diagrams



Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Cordsets & Field Attachables
Cordsets and Patchcords, DC Micro Style
 20 and 22 AWG, LED or Coiled

Pinout and Color Code

Color Code	Face View Pinout	
	4-Pin	
A	1 Brown 2 Not Used	3 Blue 4 Black
B	1 Brown 2 White	3 Blue 4 Black

Product Selection

LED Cordsets

No. of Pins	Jacket Material	Wire Size, AWG	Color Code	Output Type LED	Cat. No.*	
					Straight Female	Right Angle Female
4-pin/3-wire DC micro	Yellow PVC	22	A	PNP	889D-B3AC-2	889D-P3AC-2
				NPN	889D-A3AC-2	889D-N4AC-2
B			PNP	889D-B4AC-2	889D-P4AC-2	
			NPN	889D-A4AC-2	889D-N4AC-2	

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Change AC to:	For:
AE	18 AWG Yellow PVC Cable
AB	24 AWG Yellow PVC Cable
EC	22 AWG Yellow PVC, Braided Shield Cable
FC	22 AWG Yellow PVC, Foil Shield Cable
BC	22 AWG Black PVC Cable
BB	24 AWG Black PVC Cable
HJ	18 AWG TPE Cable
HB	24 AWG TPE Cable
UC	22 AWG PUR Cable
UB	24 AWG PUR Cable
JB	24 AWG Black PUR Hallogen Free

3-Cordsets

Coiled Cordsets

No. of Pins	Cable		Cat. No.
	Assembly Rating	Color Code	Straight Female
4-Pin	20 AWG, 250V, 4 A	A	889D-F4AD-C5F

Cordsets & Field Attachables

Cordsets and Patchcords, DC Micro Style

20 and 22 AWG, LED or Coiled

Patchcords 

No. of Pins		Jacket Material	Wire Size, AWG	Color Code	Output Type	Cat. No.*			
Female	Male					Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
4-Pin	4-Pin	Yellow PVC	22 AWG	A	LED				
					PNP	889D-B3ACDM-2	889D-B3ACDE-2	889D-P3ACDM-2	889D-P3ACDE-2
					NPN	889D-A3ACDM-2	889D-A3ACDE-2	889D-N3ACDM-2	889D-N3ACDE-2
					PNP	889D-B4ACDM-2	889D-B4ACDE-2	889D-P4ACDM-2	889D-P4ACDE-2
					NPN	889D-A4ACDM-2	889D-A4ACDE-2	889D-N4ACDM-2	889D-N4ACDE-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Change AC to:	For:	
AE	18 AWG	Yellow PVC Cable
AC	22 AWG	Yellow PVC Cable
AB	22 AWG	Yellow PVC Cable
EC	22 AWG	Yellow PVC, Braided Shield Cable
BC	22 AWG	Black PVC Cable
BB	24 AWG	Black PVC Cable
HJ	18 AWG	TPE Cable
HB	24 AWG	TPE Cable
UC	22 AWG	PUR Cable
UB	24 AWG	PUR Cable
JB	24 AWG	Black PUR Hallogen Free

Cordsets & Field Attachables
Cordsets and Patchcords, DC Micro Style
 20 and 22 AWG, LED or Coiled

Patchcords—Threaded 

No. of Pins		Jacket Material	Wire Size, AWG	Color Code	Output Type	Cat. No.*			
Female	Male					Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
4-Pin	4-Pin	Yellow PVC	22 AWG	A	LED	889D-B3ABPM-2	889D-B3ABPE-2	889D-P3ABPM-2	889D-P3ABPE-2
					PNP	889D-A3ABPM-2	889D-A3ABPE-2	889D-N3ABPM-2	889D-N3ABPE-2
					NPN				

Change AB to:	For:	
BB	24 AWG	Black PVC Cable
HB	24 AWG	TPE Cable
UB	24 AWG	PUR Cable
JB	24 AWG	Black PUR Hallogen Free

Patchcords—Snap On 

No. of Pins		Jacket Material	Wire Size, AWG	Color Code	Output Type	Cat. No.*			
Female	Male					Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
4-Pin	4-Pin	Yellow PVC	24 AWG	A	—	889D-B3UBPG-2	889D-B3UBPH-2	889D-P3UBPG-2	889D-P3UBPH-2
						889D-A3UBPG-2	889D-A3UBPH-2	889D-N3UBPG-2	889D-N3UBPH-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Change UB to:	For:	
JB	24 AWG	Black PUR Hallogen Free

Note: PNP cable used with PNP sensor output.
 NPN cable used with NPN sensor output.
 Stainless steel models are available by changing 889D to 889DS.
 Nickel-plated brass models are available by changing 889D to 889DS.

Pinout

Pinout	Face View Pinout					
	A		B		C	
	Female	Male	Female	Male	Female	Male
	3 Pin Pico Female to 4 Pin DC Micro Male		4 Pin Pico Female to 4 Pin DC Micro Male		4 Pin DC Micro Female to 3 Pin Pico Male	

Product Selection

Patchcords

Style: Female to Male	Pinout	Wire Size, AWG	Assembly Rating	Cat. No.*			
				Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin Pico to 4-Pin Micro	A	24	NonLED: 60V AC/75V DC, 4 A; LED: 10...30V DC, 4 A	889P-F3ABD4M-2	889P-F3ABD4E-2	889P-R3ABD4M-2	889P-R3ABD4E-2
4-Pin Pico to 4-Pin Micro	B	24	60V AC/75V DC 4 A	889P-F4ABDM-2	889P-F4ABDE-2	—	—
4-Pin Micro to 3-Pin Pico	C	24	60V AC/75V DC, 4 A	889D-F4ABP3M-2	889D-F4ABP3E-2	889D-R4ABP3M-2	889D-R4ABP3E-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 1 (1 m), 5 (5 m) or 10 (10 m) for standard cable lengths.

Cordsets & Field Attachables
V-Cables, DC Micro Style
 22 AWG, Yellow or Black PVC



DC Micro V-Cable

Specifications

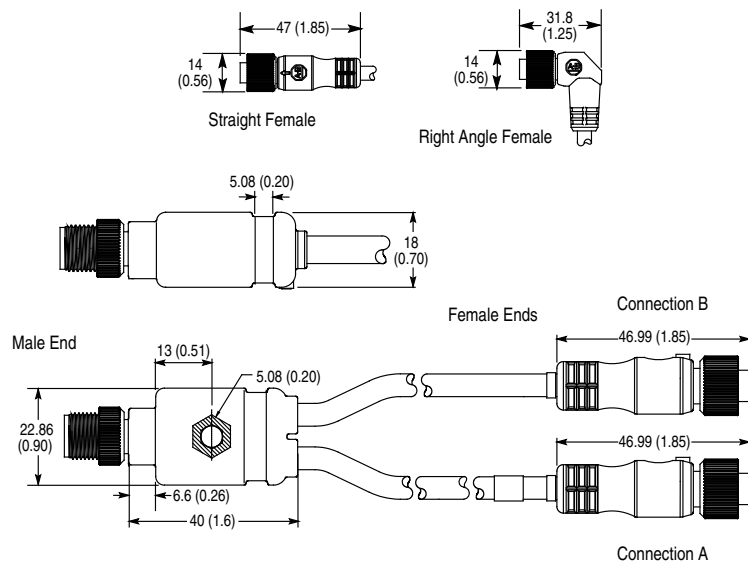
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Insert Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC jacket, 22 AWG conductors, 300V
Cable Diameter [mm (in.)]	5 (0.21) PVC unshielded
Electrical	
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	30V, 4 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown, IP69K
Temperature Rating [C (F)]	-20...+105° (-4...+221°)

Features

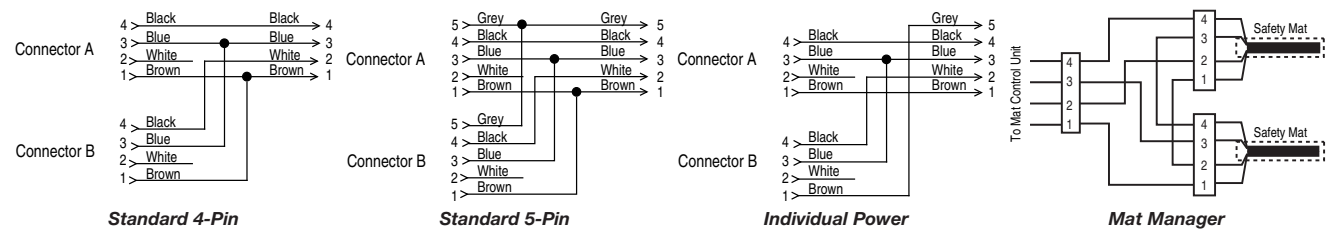
- Space-saving slim design
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Convenient connection of two sensors to one I/O port
- Standard wiring models with or without pin 5 designed for use with dual input distribution boxes and IP67 distributed I/O
- Individual power wiring version for use with dual input distributed I/O with point-level diagnostics
- Ratcheting coupling nut for vibration resistance

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



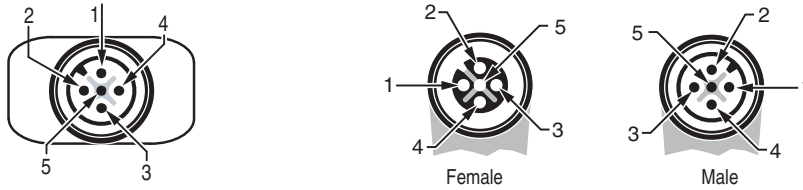
Wiring Diagrams



3-Cordsets

Pinout

Face View Pinout



Product Selection

V-Cable Cordsets

Type	Jacket Material	Assembly Rating	Cat. No.*
		3-Pin to 4-Pin	
Standard Wiring	Yellow PVC	250V, 4 A	879D-C3ACD4M-2

V-Cables

Type	Jacket Material	Assembly Rating	Cat. No.*	
			Straight Female	Right Angle Female
Standard Wiring	Yellow PVC	250V, 4 A	879D-F4ACDM-2	879D-R4ACDM-2
	Black PVC		879D-F4BCDM-2	879D-R4BCDM-2
Standard Wiring with Pin 5	Yellow PVC		879D-F5ACDM-2	879D-R5ACDM-2
	Black PVC		879D-F5BCDM-2	879D-R5BCDM-2
Individual Power Wiring	Yellow PVC		879D-F4ACD5M-2	879D-R4ACD5M-2
	Black PVC		879D-F4BCD5M-2	879D-R4BCD5M-2
Standard wiring	Yellow Braided PVC		879D-F4ECDM-2	879D-R4ECDM-2
5-pin wiring	Yellow Braided PVC		879D-F5ECDM-2	879D-R5ECDM-2
Mat manager wiring	Yellow PVC		879D-F4ACDM-B2	879D-R4ACDM-B2
Individual power wiring	Yellow Braided PVC		879D-F4ECD5M-2	879D-R4ECD5M-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with **0M3** (0.3 m), **1** (1 m), or **5** (5 m) for standard cable lengths.

Note: Stainless steel connectors may be ordered by adding an **S** to the bulletin number (e.g., 879DS-F4DM-2).

3-Cordsets

Cordsets & Field Attachables

V-Cables, DC Micro Style

LEDs



DC Micro V-Cable

Features

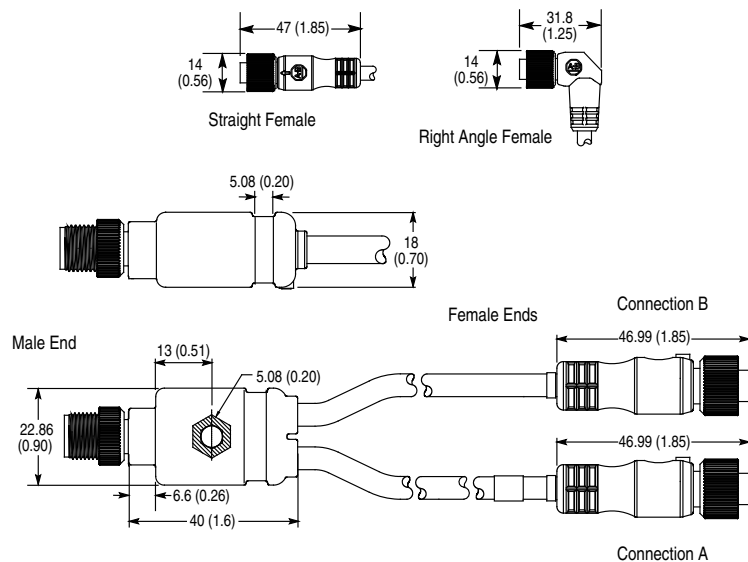
- Space-saving slim design
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Convenient connection of two sensors to one I/O port
- Standard wiring models with or without pin 5 designed for use with dual input distribution boxes and IP67 distributed I/O
- Individual power wiring version for use with dual input distributed I/O with point-level diagnostics
- Ratcheting coupling nut for vibration resistance

Specifications

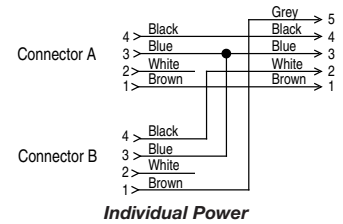
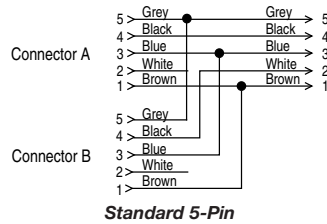
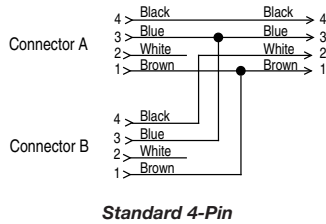
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Insert Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC jacket, 22 AWG conductors, 300V
Cable Diameter [mm (in.)]	5 (0.21) PVC unshielded
Electrical	
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	30V, 4 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown
Temperature Rating [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

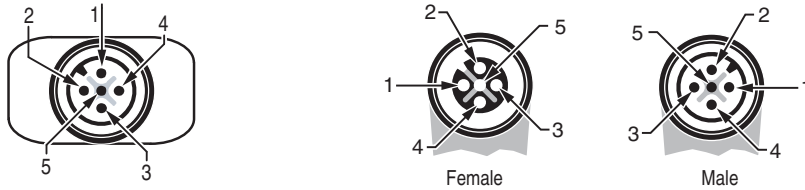


Wiring Diagrams



Pinout

Face View Pinout



Product Selection

LEDs

Type	Output Type	Wire Size, AWG	Jacket Material	Cat. No.*	
				Straight Female	Right Angle Female
Standard wiring	PNP	22	Yellow PVC	879D-B4ACDM-2	879D-P4ACDM-2
	NPN			879D-A4ACDM-2	879D-N4ACDM-2
Individual power	PNP			879D-B4ACD5M-2	879D-P4ACD5M-2
	NPN			879D-A4ACD5M-2	879D-N4ACD5M-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **0M3** (0.3 m), **1** (1 m), or **5** (5 m) for standard cable lengths.

Change AC to:	For:	
EC	22 AWG	Yellow, Braided Cable
BC	22 AWG	Black PVC Cable
AE	18 AWG	Yellow PVC Cable
HJ	18 AWG	Yellow TPE Flex-rated Cable

3-Cordsets

Cordsets & Field Attachables
V-Cables, DC Micro Style
 18 AWG, PVC and TPE



DC Micro V-Cable

Features

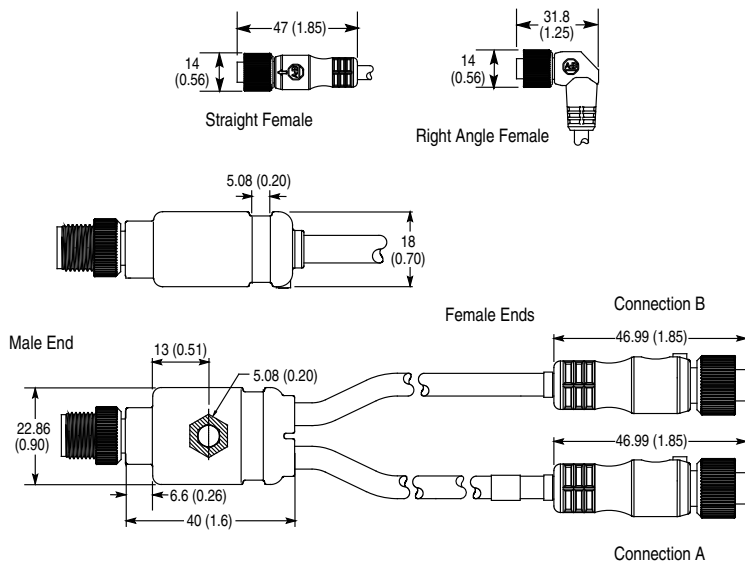
- TPE jacket material for good oil, chemical, and weld slag resistance
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Convenient connection of two sensors to one I/O port
- Standard wiring models without pin 5 designed for use with dual input distribution boxes and IP67 distributed I/O
- Individual power wiring version for use with dual input distributed I/O with point level diagnostics
- Ratcheting coupling nut for vibration resistance

Specifications

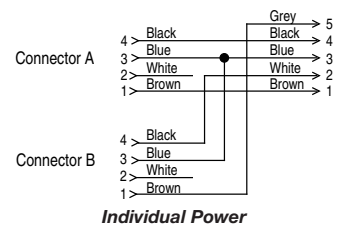
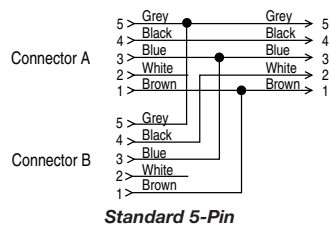
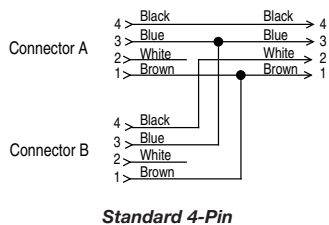
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Insert Material	Molded oil-resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC or TPE jacket, 18 AWG conductors, 300V
Cable Diameter [mm (in.)]	PVC: 6.5 (0.25) TPE: 7 (0.28)
Electrical	
Cable Rating	PVC: UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant 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	250V, 4 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown, IP69K
Temperature Rating [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

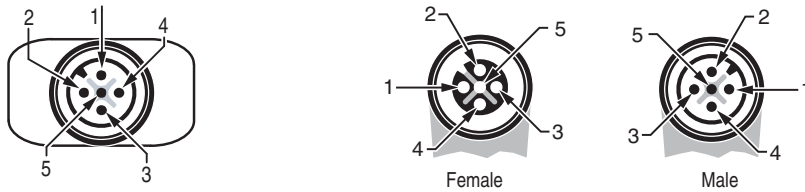


Wiring Diagrams



Pinout

Face View Pinout



Product Selection

V-Cable Cordsets

Type	Jacket Material	Assembly Rating	Cat. No.*
3-Pin to 4-Pin			
Standard Wiring	Yellow PVC	250V, 4 A	879D-C3AED4M-2

V-Cables

Type	Jacket Material	Assembly Rating	Cat. No.*	Cat. No.*
			Straight Female	Right Angle Female
Standard Wiring	Yellow PVC	250V, 4 A	879D-F4AEDM-2	879D-R4AEDM-2
	Yellow TPE		879D-F4HJDM-2	879D-R4HJDM-2
Individual Power Wiring	Yellow PVC	250V, 4 A	879D-F4AED5M-2	879D-R4AED5M-2
	Yellow TPE		879D-F4HJD5M-2	879D-R4HJD5M-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **0M3** (0.3 m), **1** (1 m), or **5** (5 m) for standard cable lengths.

Cordsets & Field Attachables

Y-Cables, DC Micro Style

22 AWG, PVC & TPE



DC Micro Y-Cable

Features

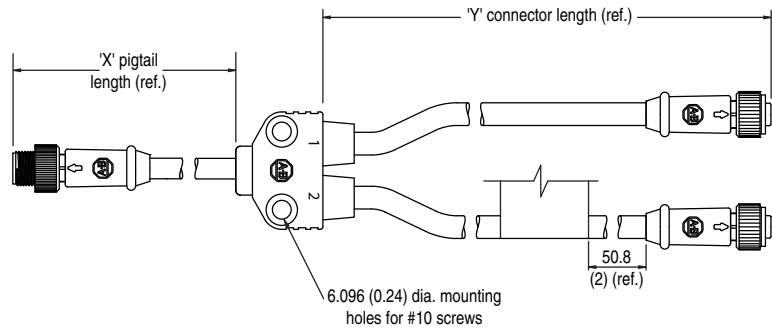
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Convenient connection of two sensors to one I/O port
- Standard wiring models without pin 5 designed for use with dual input distribution boxes and IP67 distributed I/O
- Individual power wiring version for use with dual input distributed I/O with point level diagnostics
- Ratcheting coupling nut for vibration resistance

Specifications

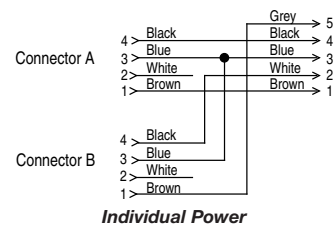
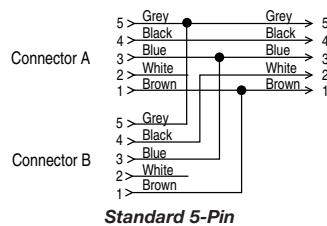
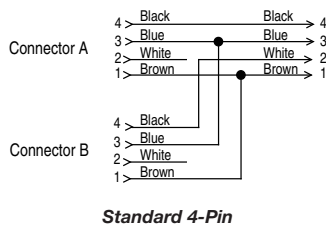
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Insert Material	Molded oil-resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC or TPE jacket, 18 AWG conductors, 300V
Cable Diameter [mm (in.)]	PVC: 6.5 (0.25) TPE: 7 (0.28)
Electrical	
Cable Rating	PVC: UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant 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	250V, 4 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown, IP69K
Temperature Rating [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Wiring Diagrams



Product Selection

Type	Output	Jacket Material	Connector End	Pigtail	Cat. No.*†‡
Standard wiring	—	Yellow PVC	Straight Female	Straight Female	879D-F4ACT1M-2
				Right Angle Female	879D-R4ACT1M-2
			Right Angle Female	Straight Female	879D-F4ACT1E-2
				Right Angle Female	879D-R4ACT1E-2
Standard wiring	PNP	Yellow PVC	Straight Female	Straight Female	879D-B4ACT1M-2
				Right Angle Female	879D-P4ACT1M-2
			Right Angle Female	Straight Female	879D-B4ACT1E-2
				Right Angle Female	879D-P4ACT1E-2
Standard wiring	NPN	Yellow PVC	Straight Female	Straight Female	879D-A4ACT1M-2
				Right Angle Female	879D-N4ACT1M-2
			Right Angle Female	Straight Female	879D-A4ACT1E-2
				Right Angle Female	879D-N4ACT1E-2
5-pin wiring	—	Yellow PVC	Straight Female	Straight Female	879D-F5ACT1M-2
				Right Angle Female	879D-R5ACT1M-2
			Right Angle Female	Straight Female	879D-F5ACT1E-2
				Right Angle Female	879D-R5ACT1E-2
Individual power wiring	—	Yellow Braided PVC	Straight Female	Straight Female	879D-F5AC5T1M-2
				Right Angle Female	879D-R5AC5T1M-2
			Right Angle Female	Straight Female	879D-F5AC5T1E-2
				Right Angle Female	879D-R5AC5T1E-2
Individual power wiring	PNP	Yellow PVC	Straight Female	Straight Female	879D-B4AC5T1M-2
				Right Angle Female	879D-P4AC5T1M-2
			Right Angle Female	Straight Female	879D-B4AC5T1E-2
				Right Angle Female	879D-P4AC5T1E-2
Individual power wiring	NPN	Yellow PVC	Straight Female	Straight Female	879D-A4AC5T1M-2
				Right Angle Female	879D-N4AC5T1M-2
			Right Angle Female	Straight Female	879D-A4AC5T1E-2
				Right Angle Female	879D-N4AC5T1E-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **0M3** (0.3 m), **1** (1 m), or **5** (5 m) for standard cable lengths.

† The **1** represents the Y-cable extension. Replace the **1** with **0M3** (0.3 m), **2** (2 m), **5** (5 m), or **10** (10 m) for standard Y-cable lengths.

‡Change AC to:	For:	
EC	22 AWG	Yellow, Braided Cable
BC	22 AWG	Black PVC Cable
AE	18 AWG	Yellow PVC Cable
HJ	18 AWG	Yellow TPE Flex-rated Cable

3-Cordsets

Cordsets & Field Attachables
Splitters, DC Micro Style
 Standard Individual Power and Tap-Style Wiring



Splitter, DC Micro

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Black epoxy-coated zinc
Material	Black PUR
Connector Insert Material	PUR
Contact Material	Gold over nickel-plated brass
O-Ring Material	Viton®
Electrical	
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-20...+105 ° (-4...+221 °)

Features

- Standard wiring models with or without pin 5 designed for use with dual input distribution boxes and IP67 distributed I/O
- Standard wiring with pin 5 version specifically keyed for MDSA applications
- Individual power wiring version for use with dual input distributed I/O with point-level diagnostics
- Tap-style wiring version used for DeviceNet and micro auxiliary power applications
- PUR body offers good oil and chemical resistance
- Ratcheting coupling nuts for vibration resistance

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

Figure A

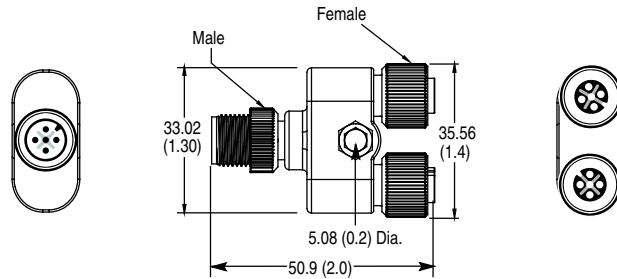


Figure B

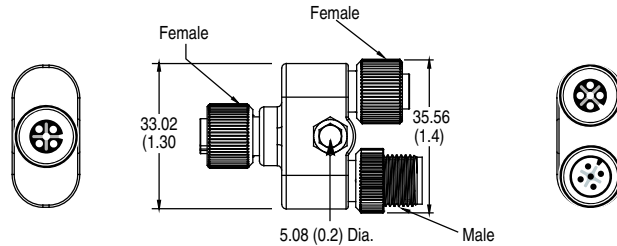
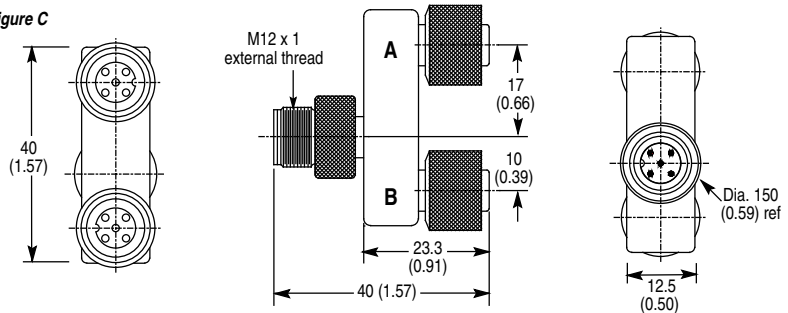


Figure C



Pinout and Color Code

Face View Pinout		
4-Pin		
Color Code	1 Brown 2 White	3 Blue 4 Black
A		

Product Selection

Splitters

Connector Style	Wiring Diagram	Assembly Rating	Dimensions	Cat. No.
Standard Wiring (without pin 5)		250V, 4 A	Fig. A	879D-F4DM
Standard Wiring (with pin 5)				879D-F5DM
Standard Wiring (with pin 5) for MDSA		250V, 4 A	Fig. C	* 898D-53PY-D5
Individual Power Wiring		250V, 4 A	Fig. A	879D-F4D5M
Tap-Style Wiring		250V, 4 A		1485P-RDR5
		250V, 4 A	Fig. B	1485P-DRR5

3-Cordsets

* This model comes with nickel plated brass coupling nuts as standard and is not available in stainless steel version.

Note: Stainless steel connectors may be ordered by adding an **S** to the bulletin number (e.g. 879DS-F4DM-*).

Receptacles, DC Micro Style

18 and 22 AWG, 1/2 NPT, 1/4 NPT, M14, Rear-Mount, or PG9 Mounting Threads



DC Micro Female Receptacle

Specifications

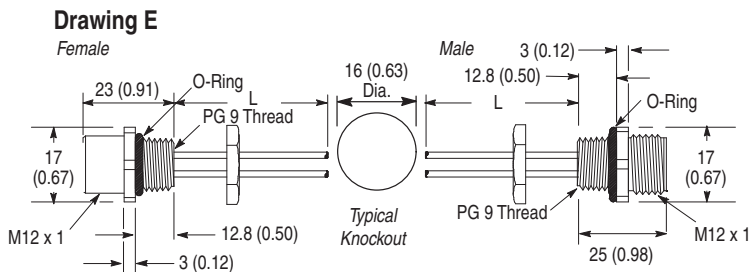
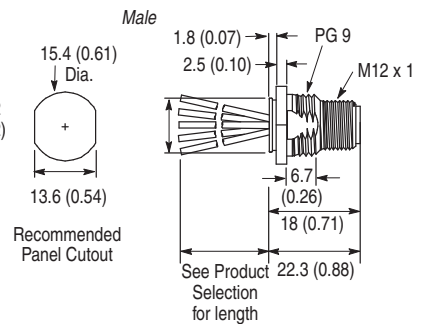
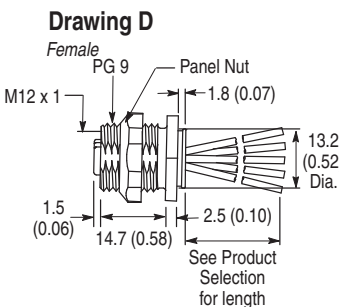
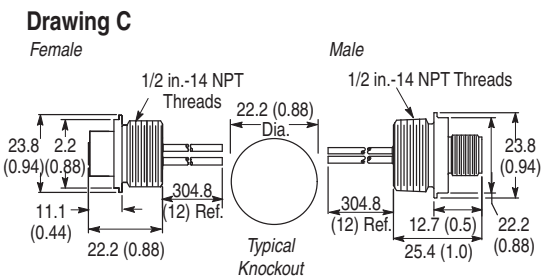
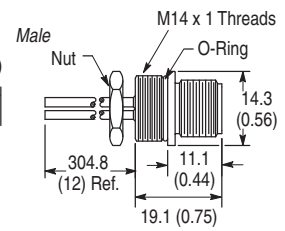
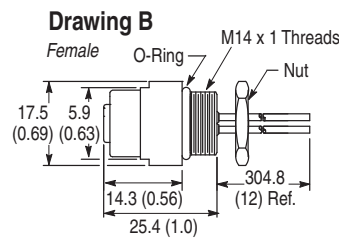
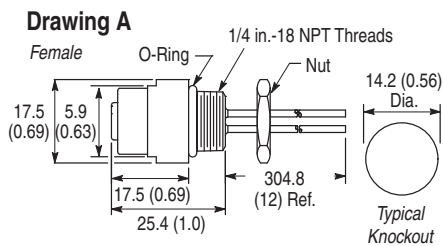
Certifications	UL Recognized and CSA Certified
Mechanical	
Receptacle Shell Material	Black anodized machined aluminum
Connector Insert Material	Nylon
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC, 18 or 22 AWG stranded copper, 300V, UL Recognized and CSA Certified
Electrical	
Assembly Rating	250V, 4 A; 8-pin: 300V 1.5 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-20...+105° (-4...+221°)

Features

- 22 AWG conductors
- Female and male bulkhead receptacles
- 3-, 4-, 5-, or 8-pin configuration
- 1/4 in., 1/2 in., M14, or PG 9 mounting threads
- Rear mount receptacles available in 3-, 4-, and 5-pin configuration

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Mating Components & Accessories

Description	Cat. No.	Page
1/2 inch-14 NPT mounting nut*	889A-U1NUT-10	3-162
1/2 inch-14 NPT flat sealing washer*	889A-U1FSL-10	3-162

* Sold in bags of 10.



Cordsets & Field Attachables
Receptacles, DC Micro Style

18 and 22 AWG, 1/2 NPT, 1/4 NPT, M14, Rear-Mount, or PG9 Mounting Threads

Pinout and Color Code

Color Code	Face View Pinout							
	3-Pin		4-Pin		5-Pin		8-Pin	
	Female		Male		Female		Male	
A	1 Brown 2 N/C	3 Blue 4 Black	1 Brown 2 White	3 Blue 4 Black	1 Brown 2 White 3 Blue	4 Black 5 Grey	1 White 2 Brown 3 Green 4 Yellow	5 Grey 6 Pink 7 Blue 8 Red

Product Selection

22 AWG Receptacles

No. of Pins	Assembly Rating [AWG]	Drawing	Panel Mount Threads	Cat. No.			
				Female		Male	
3-Pin	250V, 4 A	A	1/4 inch-18 NPT		888D-F3AC2-1		—
		C	1/2 inch-14 NPT	*	888D-F3AC1-1	*	888D-M3AC1-1
		B	M14 x 1		888D-F3AC6-1	*	888D-M3AC6-1
		D	Rear Mount PG 9	⊗	888D-F3AC5-1	⊗	888D-M3AC5-1
4-Pin		A	1/4 inch-18 NPT		888D-F4AC2-1		—
		C	1/2 inch-14 NPT	*	888D-F4AC1-1	*	888D-M4AC1-1
		B	M14 x 1		888D-F4AC6-1	*	888D-M4AC6-1
		D	Rear Mount PG 9	⊗	888D-F4AC5-1	⊗	888D-M4AC5-1
5-Pin		C	1/2 inch-14 NPT	*	888D-F5AC1-1	*	888D-M5AC1-1
		B	M14 x 1	*	888D-F5AC6-1	*	888D-M5AC6-1
		D	Rear Mount PG 9	⊗	888D-F5AC5-1	⊗	888D-M5AC5-1
8-Pin		24 AWG, 300V, 1.5 A	E	PG 9	*	888D-F8AB3-1	*

18 AWG Receptacles

No. of Pins	Assembly Rating [AWG]	Drawing	Panel Mount Threads	Cat. No.			
				Female		Male	
4-Pin	250V, 4 A	C	1/2 inch-14 NPT	*	888D-F4AE1-1	*	888D-M4AE1-1
		D	Rear Mount PG9	⊗	888D-F4AE5-1	⊗	888D-M4AE5-1
5-Pin		C	1/2 inch-14 NPT	*	888D-F5AE1-1	*	888D-M5AE1-1

* The 1 at the end of the cat. no. is for 1 m cable length. Replace the 1 with **0M3** (0.3 m) for standard cable lengths.

⊗ The 1 at the end of the cat. no. is for 1 m cable length. Replace the 1 with **0M5** (0.5 m) for standard cable lengths.

Note: 1/2 inch NPT mounting threads model mounting nuts and flat sealing washers sold separately.

3-Cordsets

Cordsets & Field Attachables

Terminal Chambers, DC Micro Style



DC Micro Female

Specifications

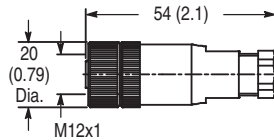
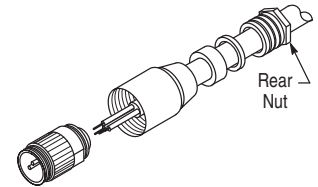
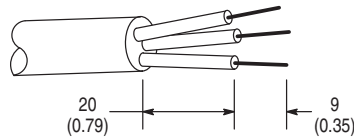
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Shell Material	PBT, except embedded thermistor models: Nylon
Contact Material	Gold plated palladium nickel
Cable Diameter	18 AWG (0.75 mm ²) max.
Electrical	
Assembly Rating	4- or 5-pin: 250V, 4 A 8-pin: 60V, 2 A
Environmental	
Enclosure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

Approximate Dimensions

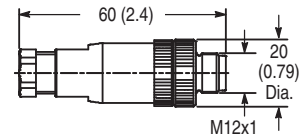
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

Features

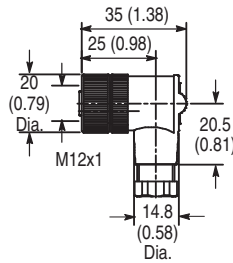
- Field installable
- 4- or 5-pin DC micro style
- Straight or right angle
- Single cable or dual cable models
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations
- Embedded thermistor models designed for use with ArmorPoint thermocoupling input modules provide cold junction compensation capability



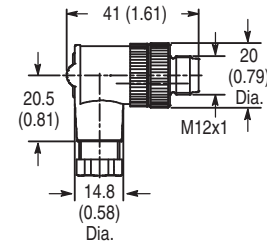
Straight Female



Straight Male

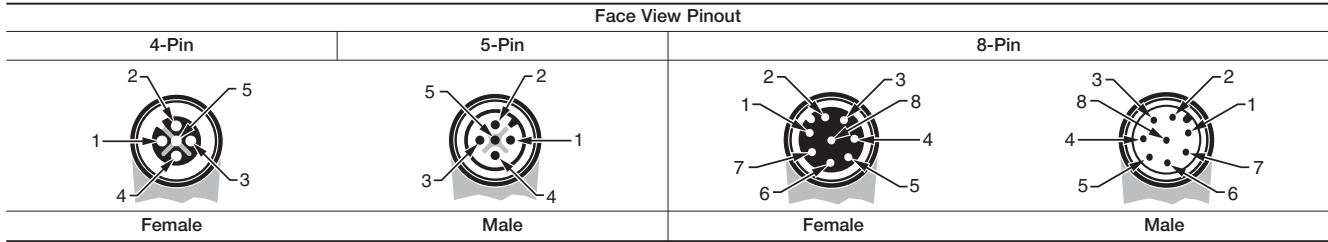


Right Angle Female



Right Angle Male

Pinout



Product Selection

Single-Cable Model Terminal Chambers



No. of Pins	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	871A-TS4-D	871A-TR4-D	871A-TS4-DM	871A-TR4-DM
	6.0...8.0 (0.24...0.32)		871A-TS4-D1	871A-TR4-D1	871A-TS4-DM1	871A-TR4-DM1	
5-Pin	4.0...6.0 (0.16...0.24)		PG 7	871A-TS5-D	871A-TR5-D	871A-TS5-DM	871A-TR5-DM
	6.0...8.0 (0.24...0.32)		PG 9	871A-TS5-D1	871A-TR5-D1	871A-TS5-DM1	871A-TR5-DM1
8-Pin	6.0...8.0 (0.24...0.32)	60V, 2 A	PG 9	871A-TS8-D1	—	871A-TS8-DM1	—

Dual Cable Model Terminal Chambers



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

Embedded Thermistor Terminal Chambers



No. of Pins	Cable Jacket Diameter [mm (in.)]	Assembly Rating	Wiring Diagram	Cat. No.*	
				Straight Male	Right Angle Male
4-Pin	3.0...6.5 (0.12...0.26)	250V, 4 A		871A-TS4CJC-DM	871A-TR4CJC-DM

* This model comes with nickel plated brass coupling nuts as standard and is not available in stainless steel version.

Note: Stainless steel coupling nuts available, add an **S** to the bulletin number (e.g. 871AS-TS4-DM).

3-Cordsets

Field Attachable, DC Micro Style

Insulation Displacement Connector



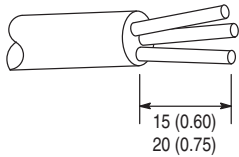
DC Micro Male

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

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Specifications

Mechanical	
Coupling Nut Material	Zinc die-cast
Connector Shell Material	Zinc die-cast or polyamide
Contact Material	Gold-plated palladium nickel
IDC Installations	10 max.
Cable Diameter [mm (in.)]	26...22 AWG, 20 AWG: 1.0...1.6 (0.039...0.063) 24...22 AWG, 22...18 AWG: 1.6...2.0 (0.063...0.079)
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°)

Figure A

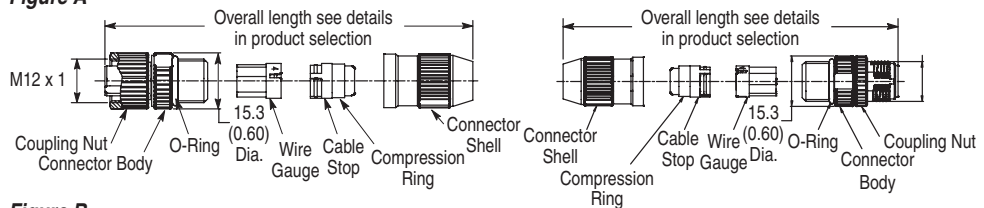


Figure B

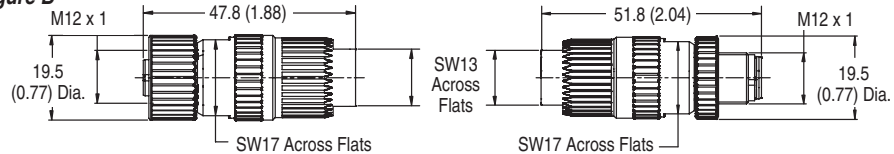


Figure C

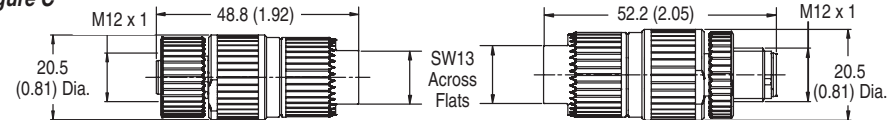
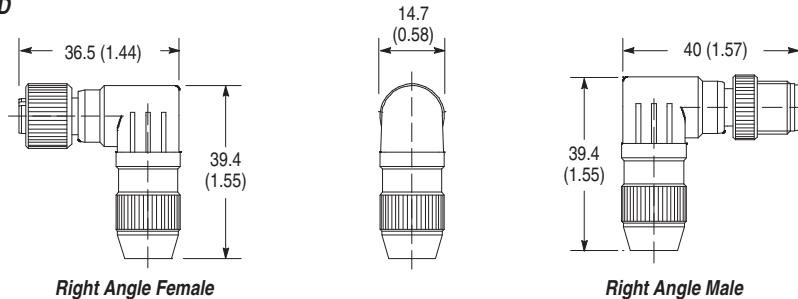


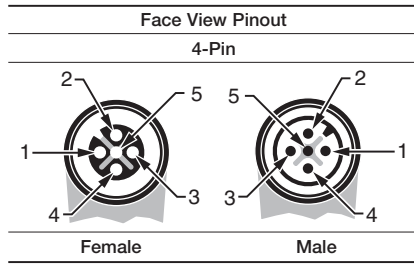
Figure D



Right Angle Female

Right Angle Male

Pinout



Product Selection

IDC Field Attachables

No. of Pins	Connector Body	Dimensions	Cable Diameter [mm (in.)]	Wire Size	Assembly Rating	Cat. No.			
						Straight Female	Straight Female	Straight Female	Straight Female
4-Pin	Polyamide Small body unshielded	Figure A & D	4.0...5.1 (0.16...0.20)	26...22 AWG	32V 4 A	889D-F4DC-H	889D-M4DC-H	889D-R4DC-H	889D-E4DC-H
	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	—	—

3-Cordsets

Cordsets & Field Attachables

Bulkhead Pass-Thru, DC Micro Style



DC Micro Bulkhead Pass-Thru

Features

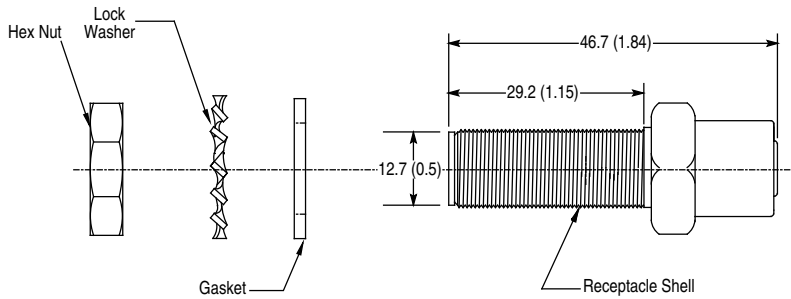
- Male to female bulkhead pass-thru provides flexibility in thru-panel installations
- Standard 5-pin DC micro version allows use for a variety of pin-count configurations

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Shell & Locknut Material	Nickel-plated brass
Connector Insert Material	Nylon
Gasket Material	Neoprene
Thrust Washer	Steel alloy
Contact Material	Gold-plated palladium nickel
Typical Knockout	12.7 mm (0.50 in.)
Environmental	
Enclosure Type Rating	IP67
Operating Temperature [C (F)]	-20...+80 ° (-4...+176 °)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Product Selection

IDC Field Attachables

Face View of Female	Assembly Rating	Face View of Male	Cat. No.
	250V, 4 A		1485A-CXR5-D5



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. All Allen-Bradley AC micro cabling products are UL Recognized and CSA Certified.

Featuring industry standard 3-, 4-, 5-, or 6-pin, dual key overmolded connectors, Allen-Bradley AC micro cordsets provide secure connection for proximity sensors, limit switches, photoelectric sensors, and other field devices. Cables can be 22 AWG or 18 AWG, shielded or unshielded with straight or right-angled connectors. Special coiled cables are also available for applications involving moving equipment. For bulkhead or panel installation, Rockwell Automation offers die cast, dual keyway 3-, 4-, 5-, or 6-pin AC micro male or female receptacles.

Allen-Bradley passive distribution boxes allow multiple devices to be connected to a control system through a single pigtail. Each distribution box features internal-thread female receptacles (4, 6, or 8, depending on model) for quick and easy connection with quick disconnect mating plugs.

Available in male and female versions, terminal chambers are passive field-installable connectors for use with raw cable. Allen-Bradley 3-pin AC micro style terminal chambers contain screw terminals for quick and easy assembly of custom QD cables on the plant floor. Terminal chambers can be straight or right angled and are also available for various cable diameters.

Rockwell Automation is continually expanding its connection system offerings. If our standard catalog does not contain the item that you need, or you have a special application, please contact your local Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Styles

Configurator3-78
 Cordsets & Patchcords3-80
 Splitters3-92
 Receptacles.....3-94
 Terminal Chambers3-96

Cordsets & Field Attachables
AC Micro Style
 Configurator

Cordset

889R S - F 3 E C A - 5
 a b c d e f g

a

Coupling Nut Material	
Code	Description
Blank	Standard Coupling Nut (Epoxy-Coated Zinc)
N	Nickel-Plated Brass
S	Stainless Steel

b

Connector Type	
Code	Description
E	Right Angle Male (External Threads)
F	Straight Female (Internal Threads)
M	Straight Male (External Threads)
R	Right Angle Female (Internal Threads)

c

Number of Pins	
Code	Description
3...6	Number of Pins

d

Jacket Material	
Code	Description
A	PVC Cable, Yellow, Unshielded
E	PVC Cable, Yellow, Braided Shield
G	PVC, Grey, Unshielded
H	ToughLink, TPE, Unshielded
K	PVC, Grey, Braided Shield
U	PUR, Yellow, Unshielded
W	ToughWeld™

e

Wire Gauge	
Code	Description
C	22 AWG
D	20 AWG
E	18 AWG

f

Wire Color Code	
Code	Description
A	Automotive Color Code

g

Cable Length	
Code	Description
C	Coil Cable
Blank	Meters *

Patchcord

889R S - F 3 A E D M - 10
 a b c d e f g h

a

Coupling Nut Material	
Code	Description
Blank	Standard Coupling Nut (Epoxy-Coated Zinc)
N	Nickel-Plated Brass
S	Stainless Steel

b

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
R	Right Angle Female (Internal Threads)

c

No. of Pins	
Code	Description
3...6	No. of Pins

d

Jacket Material	
Code	Description
A	PVC Cable, Yellow, Unshielded
E	PVC Cable, Yellow, Braided Shielded
G	PVC, Grey, Unshielded
H	ToughLink, TPE, Unshielded
K	PVC, Grey, Braided Shield
U	PUR, Yellow, Unshielded
W	ToughWeld

e

Wire Gauge	
Code	Description
C	22 AWG
D	20 AWG
E	18 AWG

f

Male End Connector Style	
Code	Description
R	AC Micro QD

g

Male End Connector Type	
Code	Description
E	Right Angle Male (External Threads)
M	Straight Male (External Threads)

h

Cable Length	
Code	Description
Blank	Meters *

* To indicate desired length in meters (all lengths are available) add 0M3 for 0.3 m (1 ft) or 10 for 10 m (32.8 ft) (example: 889DS-F4AC-10).

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.

Receptacles

888R - $\frac{F}{a}$ $\frac{4}{b}$ $\frac{A}{c}$ $\frac{C}{d}$ $\frac{1}{e}$ - $\frac{1F}{f}$

a

Connector Type	
Code	Description
F	Female (External Threads)
M	Male (External Threads)

b

No. of Pins	
Code	Description
3...6	No. of Pins

c

Wire Type	
Code	Description
A	PVC

d

Wire Gauge	
Code	Description
C	22 AWG

e

Mounting Threads	
Code	Description
1	1/2 inch-14 NPT
2	1/4 inch-18 NPT

f

Cable Length	
Code	Description
F	Feet (1F5 = 1.5 ft)

3-Cordsets

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.

Cordsets and Patchcords, AC Micro Style

18 or 22 AWG, PVC



3-Pin AC Micro Cordset

Features

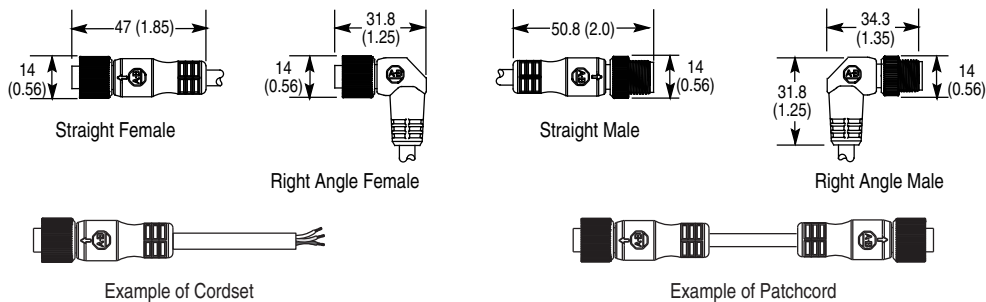
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Heavy duty reinforcing braiding can be used as a grounded shield to reduce noise
- Ratcheting coupling nut for vibration resistance

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant polyurethane
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC jacket, 18 or 22 AWG conductors, 300V
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	3/c (22 AWG) = 6.7 (0.26) 3/c (18 AWG) = 6.7 (0.26) 4/c (18 AWG) = 6.7 (0.26) 4/c (22 AWG) = 6.7 (0.26) 5/c (18 AWG) = 7.5 (0.30) 6/c (22 AWG) = 6.7 (0.26)
Braiding	Shield aluminum mylar stranding 26 x #36 (AWG) (Braided cable models only)
Electrical	
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
Environmental	
Enclosure Type Rating	IP67, IP69K
Temperature Rating [C (F)]	-20...+105° (-4...221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout and Color Code

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

Product Selection

Cordsets

No. of Pins	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	889R-F3ECA-2	889R-R3ECA-2	889R-M3ECA-2	889R-E3ECA-2
	18 AWG , 250V, 4 A		889R-F3AEA-2	889R-R3AEA-2	889R-M3AEA-2	889R-E3AEA-2
4-Pin	Braided 22 AWG , 250V, 4 A		889R-F4ECA-2	889R-R4ECA-2	889R-M4ECA-2	889R-E4ECA-2
	18 AWG , 250V, 4 A		889R-F4AEA-2	889R-R4AEA-2	889R-M4AEA-2	889R-E4AEA-2
5-Pin	Braided 22 AWG , 250V, 4 A		889R-F5ECA-2	889R-R5ECA-2	889R-M5ECA-2	889R-E5ECA-2
	18 AWG , 250V, 4 A		889R-F5AEA-2	889R-R5AEA-2	889R-M5AEA-2	889R-E5AEA-2
6-Pin	Braided 22 AWG , 250V, 4 A		889R-F6ECA-2	889R-R6ECA-2	889R-M6ECA-2	889R-E6ECA-2

Patchcords

No. of Pins	Assembly Rating	Color Code	Cat. No.*			
			Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin	Braided 22 AWG , 250V, 4 A	A	889R-F3ECRM-2	889R-F3ECRE-2	889R-R3ECRM-2	889R-R3ECRE-2
	18 AWG , 250V, 4 A		889R-F3AERM-2	889R-F3AERE-2	889R-R3AERM-2	889R-R3AERE-2
4-Pin	Braided 22 AWG , 250V, 4 A		889R-F4ECRM-2	889R-F4ECRE-2	889R-R4ECRM-2	889R-R4ECRE-2
	18 AWG , 250V, 4 A		889R-F4AERM-2	889R-F4AERE-2	889R-R4AERM-2	889R-R4AERE-2
5-Pin	Braided 22 AWG , 250V, 4 A		889R-F5ECRM-2	889R-F5ECRE-2	889R-R5ECRM-2	889R-R5ECRE-2
	18 AWG , 250V, 4 A		889R-F5AERM-2	889R-F5AERE-2	889R-R5AERM-2	889R-R5AERE-2
6-Pin	Braided 22 AWG , 250V, 4 A		889R-F6ECRM-2	889R-F6ECRE-2	889R-R6ECRM-2	889R-R6ECRE-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

3-Cordsets

Cordsets and Patchcords, AC Micro Style

18 AWG, ToughWeld™



3-Pin AC Micro Cordset

Features

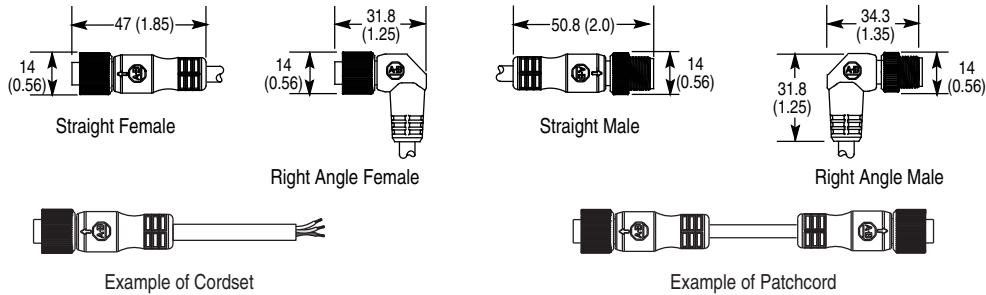
- Durable SJOOW 18 AWG cable
- Highly visible yellow ToughWeld neoprene rubber jacket offers excellent weld slag resistance
- Ratcheting coupling nuts for vibration resistance

Specifications



Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant polyurethane
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow TPE jacket, 18 AWG stranded copper, cable voltage = 300V
Bend Radius	10x diameter
Cable Diameter [mm (in.)]	9 (0.35)
Electrical	
Cable Rating	UL -50C SJOOW 90C dry and 60C water resistant, CSA -50C SJOOW 90C FT1
Assembly Rating	250V, 3 A
Environmental	
Enclosure Type Rating	IP67, IP69K
Temperature Rating [C (F)]	-50...+105° (-58...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout and Color Code

Face View Pinout	
3-Pin	
	
Color Code	Female Male
A	1 Green 2 Red/Black Tr. 3 Red/White Tr.

Product Selection

Cordsets 

No. of Pins	Assembly Rating	Material	Color Code	Cat. No.*			
				Straight Female	Right Angle Female	Straight Male	Right Angle Male
3-Pin	18 AWG, 250V, 4 A	ToughWeld	A	889R-F3WEC-2	889R-R3WEC-2	889R-M3WEC-2	889R-E3WEC-2
4-Pin	18 AWG, 250V, 4 A	ToughWeld	A	889R-F4WEC-2	889R-R4WEC-2	889R-M4WEC-2	889R-E4WEC-2
5-Pin	18 AWG, 250V, 4 A	ToughWeld	A	889R-F5WEC-2	889R-R5WEC-2	889R-M5WEC-2	889R-E5WEC-2
3-Pin	18 AWG, 250V, 4 A	ToughLink	A	889R-F3HEA-2	889R-R3HEA-2	889R-M3HEA-2	889R-E3HEA-2
4-Pin	18 AWG, 250V, 4 A	ToughLink	A	889R-F4HEA-2	889R-R4HEA-2	889R-M4HEA-2	889R-E4HEA-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Patchcords 

No. of Pins	Assembly Rating	Material	Color Code	Cat. No.*			
				Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin	18 AWG, 250V, 4 A	ToughWeld	A	889R-F3WERM-3F	889R-F3WERE-3F	889R-R3WERM-3F	889R-R3WERE-3F
4-Pin	18 AWG, 250V, 4 A	ToughWeld	A	889R-F4WERM-3F	889R-F4WERE-3F	889R-R4WERM-3F	889R-R4WERE-3F
5-Pin	18 AWG, 250V, 4 A	ToughWeld	A	889R-F5WERM-3F	889R-F5WERE-3F	889R-R5WERM-3F	889R-R5WERE-3F
3-Pin	18 AWG, 250V, 4 A	ToughLink	A	889R-F3HERM-3F	889R-F3HERE-3F	889R-R3HERM-3F	889R-R3HERE-3F
4-Pin	18 AWG, 250V, 4 A	ToughLink	A	889R-F4HERM-3F	889R-F4HERE-3F	889R-R4HERM-3F	889R-R4HERE-3F

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

3-Cordsets

Cordsets & Field Attachables

Cordsets and Patchcords, AC Micro Style

18 AWG, Yellow PUR & TPE (Flex Rated)



3-Pin AC Micro Cordset

Features

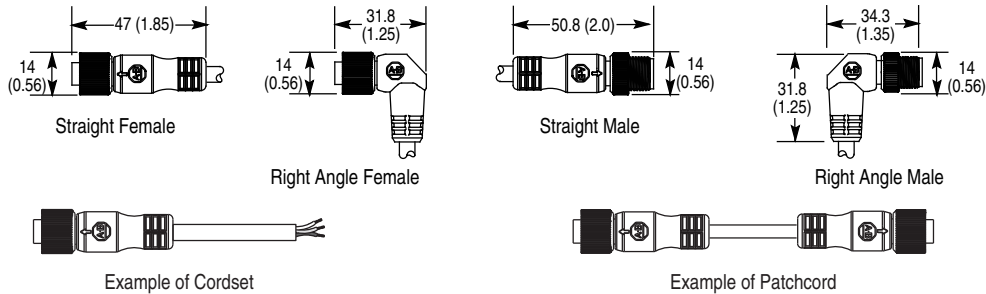
- PUR cable rated to 5 million flex cycles
- TPE cable rated to 10 million flex cycles
- Durable in high-flex applications

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Molding oil-resistant PVC
Contact Material	Gold over nickel-lated brass
Cable Type	Unshielded, oil, water, and UV resistant
Cable Diameter [mm (in.)]	3/c TPE 6.0 (0.24) 3/c PUR 6.6 (0.26) 4/c TPE 6.6 (0.26) 4/c PUR 6.6 (0.26) 5/c TPE 7.7 (0.30) 5/c PUR 7.7 (0.30)
Electrical	
Cable Rating	UL AWM, UV, oil and water resistant, 18 AWG
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	IP67, IP69K

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Cordsets & Field Attachables
Cordsets and Patchcords, AC Micro Style
 18 AWG, Yellow PUR & TPE (Flex Rated)

Pinout and Color Code

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

Product Selection

Cordsets

No. of Pins	Cable Rating	Temperature Rating [C (F)]	Jacket Material	Cat. No.*			
				Straight Female	Right Angle Female	Straight Male	Right Angle Male
3-Pin	Flex rated to 5 million cycles	-20...+80° (-4...+105)	Yellow PUR	889R-F3UEA-2	889R-R3UEA-2	889R-M3UEA-2	889R-E3ECA-2
	Flex rated to 10 million cycles	-50...+105° (-58...+221)	Yellow TPE	889R-F3HJA-2	889R-R3HJA-2	889R-M3HJA-2	889R-E3AEA-2
4-Pin	Flex rated to 5 million cycles	-20...+80° (-4...+105)	Yellow PUR	889R-F4UEA-2	889R-R4UEA-2	889R-M4UEA-2	889R-E4ECA-2
	Flex rated to 10 million cycles	-50...+105° (-58...+221)	Yellow TPE	889R-F4HJA-2	889R-R4HJA-2	889R-M4HJA-2	889R-E4AEA-2
5-Pin	Flex rated to 5 million cycles	-20...+80° (-4...+105)	Yellow PUR	889R-F5UEA-2	889R-R5UEA-2	889R-M5UEA-2	889R-E5ECA-2
	Flex rated to 10 million cycles	-50...+105° (-58...+221)	Yellow TPE	889R-F5HJA-2	889R-R5HJA-2	889R-M5HJA-2	889R-E5AEA-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Patchcords

No. of Pins	Cable Rating	Temperature Rating [C (F)]	Jacket Material	Cat. No.*			
				Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin	Flex rated to 5 million cycles	-20...+80° (-4...+176)	Yellow PUR	889R-F3UERM-2	889R-R3UERE-2	889R-R3UERM-2	889R-R3UERE-2
	Flex rated to 10 million cycles	-50...+105° (-58...+221)	Yellow TPE	889R-F3HJRM-2	889R-F3HJRE-2	889R-R3HJRM-2	889R-R3HJRE-2
4-Pin	Flex rated to 5 million cycles	-20...+80° (-4...+176)	Yellow PUR	889R-F4UERM-2	889R-F4UERE-2	889R-R4HJRM-2	889R-R4UERE-2
	Flex rated to 10 million cycles	-50...+105° (-58...+221)	Yellow TPE	889R-F4HJRM-2	889R-F4HJRE-2	889R-R4HJRM-2	889R-R4HJRE-2
5-Pin	Flex rated to 10 million cycles	-50...+105° (-58...+221)	Yellow TPE	889R-F5UERM-2	889R-F5UERE-2	889R-R5HJRM-2	889R-R5UERE-2
	Flex rated to 5 million cycles	-20...+80° (-4...+176)	Yellow PUR	889R-F5HJRM-2	889R-F5HJRE-2	889R-R5HJRM-2	889R-R5HJRE-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 0M3 (0.3 m), 1 (1 m), 3 (3 m), 5 (5 m), or 10 (10 m) for standard lengths.

3-Cordsets

Cordsets and Patchcords, AC Micro Style

PLTC, 18 and 22 AWG, Grey PVC



4-Pin AC Micro Cordset

Features

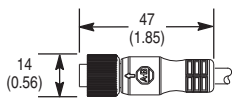
- Power Limited Tray Cable (PLTC)
- Grey PVC jacket offers good oil and chemical resistance
- Heavy-duty reinforced braiding can be used as a grounded shield to reduce noise
- Ratcheting coupling nut for vibration resistance

Specifications

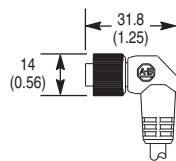
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil-resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant grey PVC jacket, 18 or 22 AWG conductors, 300V UL Listed and CSA Certified
Bend Radius	10x diameter
Electrical	
Cable Rating	UL PLTC AWM Style 2661VW-1 105C 300V, CSA AWM A/B 1/11 80C 300V FT1, UV oil and water resistant
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	IP67 & IP69K
Temperature Rating [C (F)]	-20...+105 (-4...+221)

Approximate Dimensions

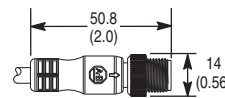
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



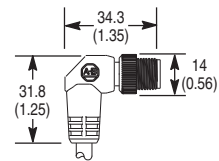
Straight Female



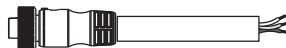
Right Angle Female



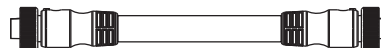
Straight Male



Right Angle Male



Example of Cordset



Example of Cordset

Cordsets & Field Attachables
Cordsets and Patchcords, AC Micro Style
 PLTC, 18 and 22 AWG, Grey PVC

Pinout and Color Code

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

Product Selection

Cordsets 

No. of Pins	Jacket Material	Wire Size, AWG	Cable Diameter [mm (in.)]	Cat. No.*			
				Straight Female (Internal Threads)	Right Angle Female	Straight Male	Right Angle Male
3-pin	Grey PVC	18	6.7 (0.26)	889R-F3GEA-2	889R-R3GEA-2	889R-M3GEA-2	889R-E3GEA-2
4-pin	Grey PVC	18	6.7 (0.26)	889R-F4GEA-2	889R-R4GEA-2	889R-M4GEA-2	889R-E4GEA-2
5-pin	Grey PVC	18	7.6 (0.3)	889R-F5GEA-2	889R-R5GEA-2	889R-M5GEA-2	889R-E5GEA-2
6-pin	Grey PVC Braided	22	6.7 (0.26)	889R-F6KCA-2	889R-R6KCA-2	889R-M6KCA-2	889R-E6KCA-2

Patchcords 

No. of Pins	Jacket Material	Wire Size, AWG	Cable Diameter [mm (in.)]	Cat. No.*			
				Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-pin	Grey PVC	18	6.7 (0.26)	889R-F3GERM-2	889R-F3GERE-2	889R-R3GERM-2	889R-R3GERE-2
4-pin	Grey PVC	18	6.7 (0.26)	889R-F4GERM-2	889R-F4GERE-2	889R-R4GERM-2	889R-R4GERE-2
5-pin	Grey PVC	18	7.6 (0.3)	889R-F5GERM-2	889R-F5GERE-2	889R-R5GERM-2	889R-R5GERE-2
6-pin	Grey PVC Braided	22	6.7 (0.26)	889R-F6KCRM-2	889R-F6KCRE-2	889R-R6KCRM-2	889R-R6KCRE-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

3-Cordsets

Cordsets and Patchcords, AC Micro Style

20 AWG, Coil Cable, PVC



3-Pin AC Micro Cordset

Features

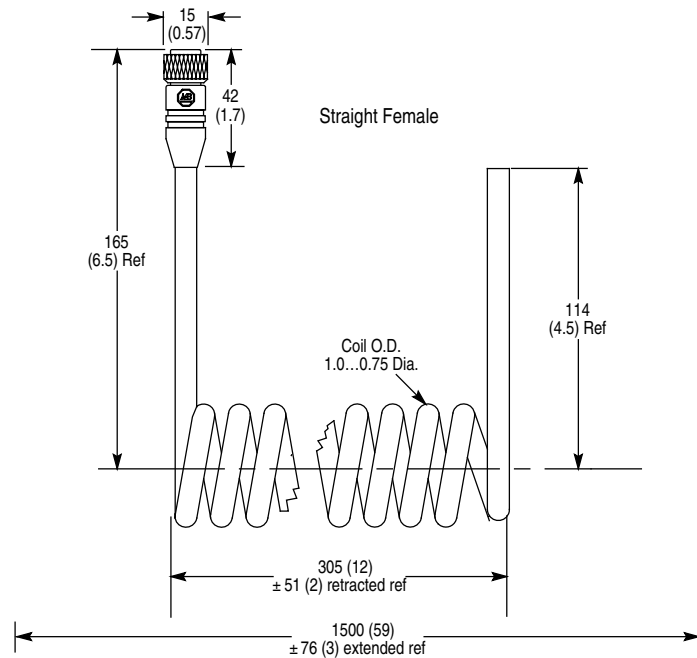
- Coil provides retractable cable for moving applications
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- One-piece molded body design

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC jacket, 20 AWG stranded copper, 300V, UL Recognized and CSA Certified
Cable Diameter [mm (in.)]	7.1 (0.28)
Electrical	
Cable Rating	300V, UL style 20197, CSA AWM 1/11 A/B
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	IP67
Temperature Rating [C (F)]	-20...+105° (-4...+221°)



Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



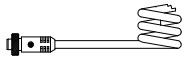
Cordsets & Field Attachables
Cordsets and Patchcords, AC Micro Style
 20 AWG, Coil Cable, PVC

Pinout and Color Code

Face View Pinout		
4-Pin		
		
Color Code	Female	Male
A	1 Black 2 Blue	3 Brown 4 White
B	1 Red/Black Tr. 2 Red/White Tr.	3 Red 4 Green (GND)

Product Selection

Cordsets



No. of Pins	Assembly Rating	Color Code	Length [m (ft)]	Cat. No.
				Straight Female
4-Pin	20 AWG 250V 4 A	A	1.5 (5)	889R-F4AD-C5F
		B		889R-F4ADA-C5F

3-Cordsets

Patchcords, AC Micro to Mini and AC Micro to DC Micro Style

18 and 22 AWG, Yellow PVC



3-Pin AC Micro

Features

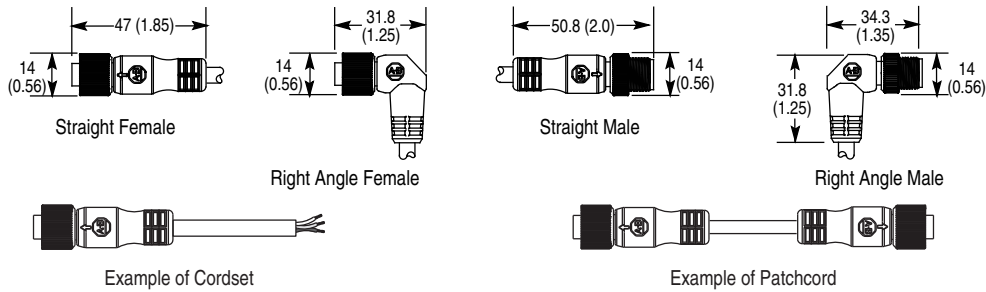
- Provides transition from AC micro to mini or DC micro applications
- Highly visible yellow PVC jacket offers good oil and chemical resistance

Specifications

Certifications	UL Recognized and CSA Certified
Electrical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Rating	Unshielded, oil, water, and UV resistant, AWM, 18 AWG
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	IP67
Temperature Rating [C (F)]	-20...+105° (-4...221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

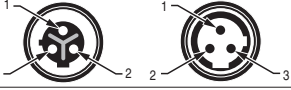




Cordsets & Field Attachables

Patchcords, AC Micro to Mini and AC Micro to DC Micro Style

18 and 22 AWG, Yellow PVC

Pinout and Color Code

No. of Pins	Face View Pinout		
	3-Pin	3-Pin	4-Pin
Face View Pinout			
Color Code	A	B	C
	1 Green 2 Red/Black Tr. 3 Red/White Tr.	1 Green 2 Black 3 White	1 Brown 2 NA 3 Blue 4 Black

Product Selection

Patchcords

No. of Pins	Connector Style	Color Code	Wire Size, AWG	Cat. No.*			
				Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin	Mini to AC Micro	B-A	18	889N-F3AERM-2	889N-F3AERE-2	889N-R3AERM-2	889N-R3AERE-2
	AC Micro to Mini	A-B	18	889R-F3AENM-2	889R-F3AENE-2	889R-R3AENM-2	889R-R3AENE-2
	AC Micro to DC Micro	A-C	18	889R-F3AEDM-2	889R-F3AEDE-2	889R-R3AEDM-2	889R-R3AEDE-2
	DC Micro to AC Micro	C-A	22	889R-F3ACDM-2	889R-F3ACDE-2	889R-R3ACDM-2	889R-R3ACDE-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Cordsets & Field Attachables
Splitters, AC Micro Style
MDSA Module Wiring



Splitter, AC Micro

Features

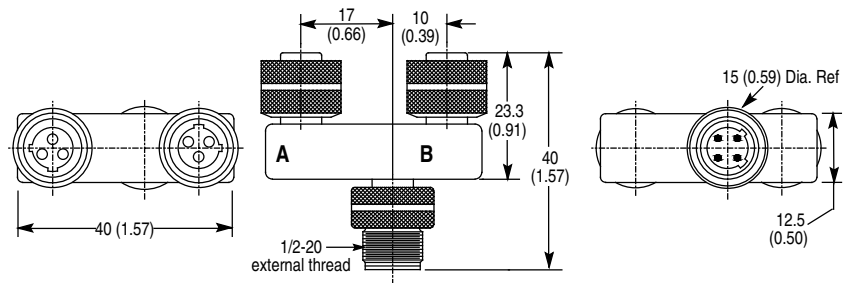
- Splitter designed for use with Bulletin 198 MDSA AC modules
- PUR body offers good oil and chemical resistance
- Ratcheting coupling nut for vibration resistance

Specifications

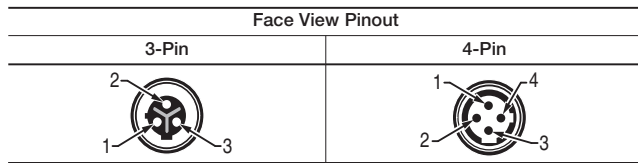
Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Black PUR
Connector Insert Material	PUR
Receptacle Shell Material	Nickel-plated brass
Contact Material	Brass, gold over nickel plating
O-Ring Material	Viton®
Electrical	
Assembly Rating	300V, 3 A
Environmental	
Enclosure Type Rating	IP67; NEMA 6P
Operating Temperature [C (F)]	-30...+105° (-22...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout



Product Selection

Splitters



Type	Wiring Diagram	Assembly Rating	Cat. No.
Standard wiring	<p>The diagram shows two female connectors, A and B, connected to a male connector. Female A has pins 1, 2, and 3. Female B has pins 01, 02, and 03. The male connector has pins 4, 3, 2, and 1. Connections are as follows: Female A pin 1 to Male Connector pin 4; Female A pin 2 to Male Connector pin 3; Female A pin 3 to Male Connector pin 2; Female B pin 01 to Male Connector pin 1; Female B pin 02 to Male Connector pin 2; Female B pin 03 to Male Connector pin 3.</p>	300V, 3 A	898R-33PYX-R3

3-Cordsets

Receptacles, AC Micro Style

18 and 22 AWG, 1/2 and 1/4 NPT Mounting Threads



AC Micro Male Receptacle

Features

- 22 AWG conductors
- Male bulkhead receptacles
- 3-, 4-, 5-, or 6-pin configuration
- 1/2 in.-14 NPT or 1/4 in.-18 NPT threads

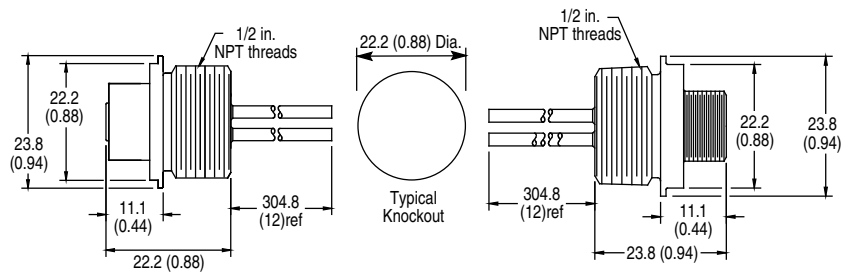
Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Receptacle Shell Material	Machined anodized aluminum with clear sealant
Connector Insert Material	Nylon
Contact Material	Machined brass
Wire Insulation	Oil-resistant PVC, 22 AWG stranded copper, 300V, UL Recognized and CSA Certified
Electrical	
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	IP67
Operating Temperature [C (F)]	-20...+105° (-4...+221°)

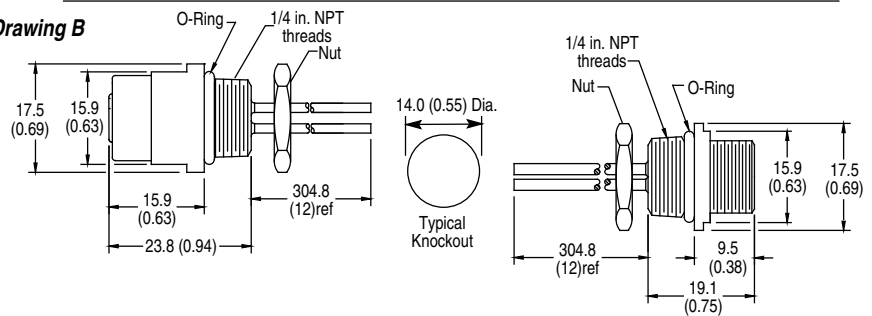
Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

Drawing A



Drawing B



Mating Components & Accessories

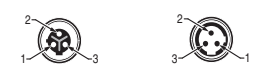


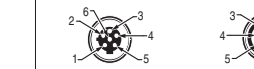
Description	Cat. No.	Page
1/2 inch-14 NPT mounting nut*	889A-U1NUT-10	3-162
1/2 inch-14 NPT flat sealing washer*	889A-U1FSL-10	3-162

* Sold in bags of 10.

Cordsets & Field Attachables
Receptacles, AC Micro Style

18 and 22 AWG, 1/2 and 1/4 NPT Mounting Threads

Pinout and Color Code

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

Product Selection

22 AWG Receptacle 

No. of Pins	Assembly Rating	Color Code	Panel Mount Threads	Dimension Drawing	Cat. No.*	
					Female	Male
3-pin	250V, 4 A	A	1/2 inch-14 NPT	A	888R-F3AC1-1F	888R-M3AC1-1F
			1/4 inch-18 NPT	B	888R-F3AC2-1F	888R-M3AC2-1F
4-pin			1/2 inch-14 NPT	A	888R-F4AC1-1F	888R-M4AC1-1F
			1/4 inch-18 NPT	B	888R-F4AC2-1F	888R-M4AC2-1F
5-pin			1/2 inch-14 NPT	A	888R-F5AC1-1F	888R-M5AC1-1F
			1/4 inch-18 NPT	B	888R-F5AC2-1F	888R-M5AC2-1F
6-pin	1/2 inch-14 NPT	A	888R-F6AC1-1F	888R-M6AC1-1F		
Mounting nuts for 1/2 inch-14 NPT threaded receptacles are available in bags of 10 pieces					889A-U1NUT-10	
Flat, sealing washers for 1/2 inch-14 NPT threaded receptacles are available in bags of 10 pieces					889A-U1FSL-10	

18 AWG Receptacle 

No. of Pins	Assembly Rating	Color Code	Panel Mount Threads	Dimension Drawing	Cat. No.*	
					Female	Male
3-pin	250V, 4 A	A	1/2 inch-14 NPT	A	888R-F3AE1-1F	888R-M3AE1-1F
			1/4 inch-18 NPT	B	888R-F3AE2-1F	888R-M3AE2-1F
4-pin			1/2 inch-14 NPT	A	888R-F4AE1-1F	888R-M4AE1-1F
			1/4 inch-18 NPT	B	888R-F4AE2-1F	888R-M4AE2-1F
5-pin			1/2 inch-14 NPT	A	888R-F5AE1-1F	888R-M5AE1-1F
			1/4 inch-18 NPT	B	888R-F5AE2-1F	888R-M5AE2-1F
Mounting nuts for 1/2 inch-14 NPT threaded receptacles are available in bags of 10 pieces					889A-U1NUT-10	
Flat, sealing washers for 1/2 inch-14 NPT threaded receptacles are available in bags of 10 pieces					889A-U1FSL-10	

* The **1F** at the end of the cat. no. is for 1 ft cable length. Replace the **1F** with **3F** (3 ft) for standard lengths.

3-Cordsets

Terminal Chambers, AC Micro Style

Screw-Type Field Attachable Connectors



AC Micro Male Receptacle

Features

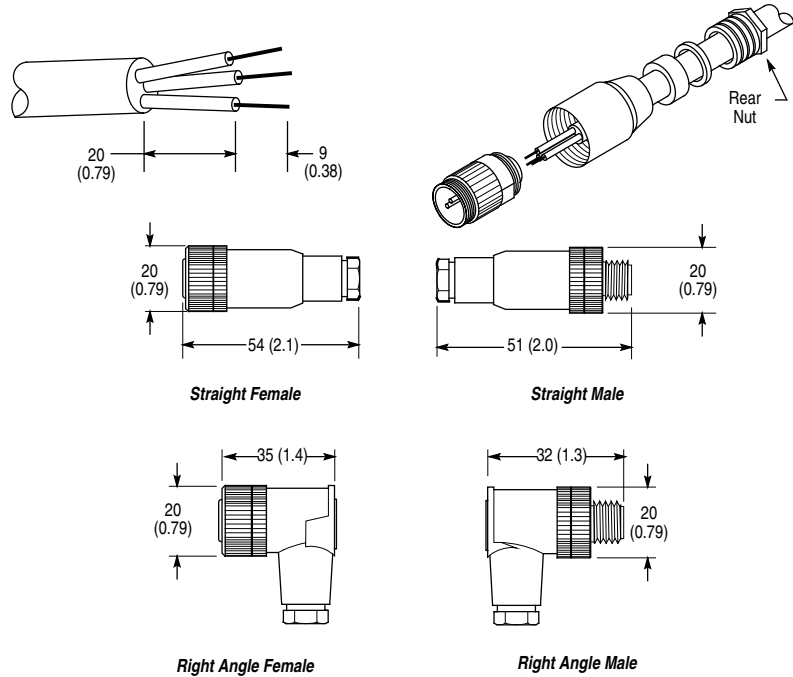
- Field installable
- 3-pin AC micro style
- Straight or right angle
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations

Specifications

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



Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.




Cordsets & Field Attachables
Terminal Chambers, AC Micro Style
 Screw-Type Field Attachable Connectors

Pinout and Color Code

Face View Pinout	
3-Pin	
	
Color Code	Female Male
A	1 Green 2 Red/Black Tr 3 Red/White Tr

Product Selection

Terminal Chambers 

Connector Style	Cable Jacket Diameter [mm (in.)]	Wire Size	Cat. No.	
			Female	Male
Straight	4.0...6.0 (0.16...0.23)	18 (0.75 mm ²)	871A-TS3-R	871A-TS3-RM
Right Angle			871A-TR3-R	871A-TR3-RM
Straight	6.0...8.0 (0.23...0.31)	18 (0.75 mm ²)	871A-TS3-R1	871A-TS3-RM1
Right Angle			871A-TR3-R1	871A-TR3-RM1

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

3-Cordsets



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 4-pin overmolded connectors, Allen-Bradley EAC micro quick-disconnect cables provide secure connection for proximity sensors, photoelectric sensors and other field devices. Connectors can be straight or right-angled and are physically keyed to

prevent wiring mishaps. Allen-Bradley EAC micro style cordsets are UL Recognized and CSA Certified and feature a yellow PVC jacket for high visibility and increased oil/chemical resistance.

Rockwell Automation is continually expanding its connection system offerings. If our standard catalog does not contain the item that you need, or you have a special application, please contact your local Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Styles

Configurator	3-100
Cordsets	3-101
Receptacles.....	3-102

Cordsets & Field Attachables
EAC Micro Style
 Configurator

Cordset

889B – F 4 A C – 10
 a b c d e

a

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
R	Right Angle Female (Internal Threads)

b

Number of Pins	
Code	Description
3...4	Number of Pins

c

Jacket Material	
Code	Description
A	PVC Cable, Yellow, Unshielded

d

Wire Gauge	
Code	Description
C	22 AWG

e

Cable Length	
Code	Description
Blank	Meters

Receptacles

888B – M 4 A C 6 – 0M3
 a b c d e f

a

Connector Type	
Code	Description
M	Straight Male (External Threads)

b

No. of Pins	
Code	Description
4	No. of Pins

c

Wire Type	
Code	Description
A	PVC

d

Wire Gauge	
Code	Description
C	22 AWG

e

Mounting Threads	
Code	Description
6	M14 x 1

f

Cable Length	
Code	Description
Blank	Meters (0M3 = 0.3 m)

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.



4-Pin EAC Micro Cordset

Features

- Ratcheting coupling nut
- Highly visible yellow PVC jacket offers good oil and chemical resistance

Specifications

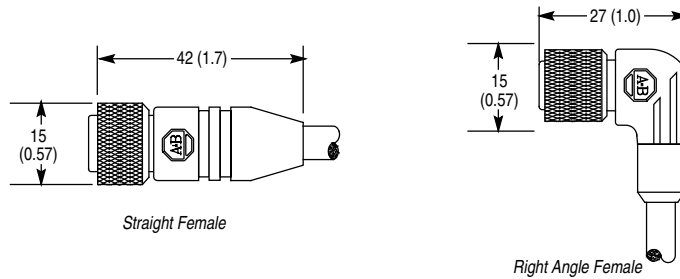
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant polyurethane body
Contact Material	Gold over nickel-plated brass
Cable Type	Yellow oil-resistant PVC jacket, 22 AWG conductors, 300V, UL Recognized and CSA Certified
Cable Diameter [mm (in.)]	5 (0.21)
Electrical	
Cable Rating	300V
Assembly Rating	300V, 3 A
Environmental	
Enclosure Type Rating	IP67
Temperature Rating [C (F)]	-40...+90° (-40...+194°)

Pinout and Color Code

Color Code	Face View Pinout
	4-Pin Female
A	1 Brown 2 Blue 3 Not Used 4 Green/Yellow
B	1 Brown 2 Blue 3 Black 4 Green/Yellow

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Product Selection

No. of Pins	Wire Size [AWG]	Color Code	Cat. No.*	
			Straight Female	Right Angle Female
3-Pin	22 AWG 300V 3 A	A	889B-F3AC-2	889B-R3AC-2
4-Pin		B	889B-F4AC-2	889B-R4AC-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

3-Cordsets

Cordsets & Field Attachables
Receptacles, EAC Micro Style
 22 AWG, M14 Mounting Threads



EAC Micro Male Receptacle

Features

- 22 AWG conductors
- Male bulkhead receptacles
- 3- or 4-wire configuration
- M14 x 1 threads

Pinout and Color Code

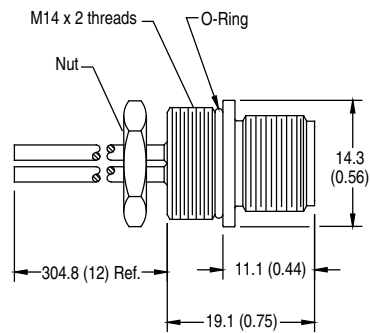
Color Code	Face View Pinout	
	4-Pin Male	
A	1 Brown 2 Blue	3 Not Used 4 Green/Yellow
B	1 Brown 2 Blue	3 Black 4 Green/Yellow

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Receptacle Shell Material	Black anodized machined aluminum
Connector Insert Material	Nylon
Contact Material	Machined brass with gold over nickel plating
Electrical	
Assembly Rating	300V, 3 A
Environmental	
Enclosure Type Rating	IP67
Operating Temperature [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Product Selection

No. of Pins	Assembly Rating	Color Code	Panel Mount Threads	Length [m (ft)]	Cat. No.
4-Pin	22 AWG 300V 3 A	A	M14 x 1	0.3 (1)	888B-M3AC6-0M3
		B			888B-M4AC6-0M3

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.



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 3- or 4-pin overmolded connectors, Allen-Bradley pico quick-disconnect cables provide secure connection for proximity sensors, photoelectric sensors, and other field devices. Connectors come in either thread-on or snap-on styles and can be straight or right-angled. They are also physically keyed to prevent wiring mishaps.

Allen-Bradley pico style 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)
- **Splitters/Y-cables:** A single cable with male connector that splits into two female connectors, allowing connection of two devices to a single I/O port

Available with straight or right angle connectors, Allen-Bradley pico quick disconnect cordsets, patchcords, and Y-cables feature a yellow PVC jacket for increased visibility and oil/chemical resistance. PUR cables, cables with snap-

on connectors, as well as, LED versions with power and output status indication are also available.

For bulkhead or panel installation, Allen-Bradley pico receptacles are also offered. These 3- or 4-wire connectors, available in male or female versions, are ideal for use in enclosures. Pico receptacles also allow for custom wiring configurations.

Allen-Bradley passive distribution boxes interface multiple devices to a control system through a single cable. Each pico distribution box features internal-thread female receptacles (4, 6, 8, or 10 depending on model) for quick and easy connection with quick-disconnect mating plugs. All products are LED versions for use with PNP (sourcing) inputs.

Available in male and female versions, terminal chambers, or field attachable connectors are passive field installable connectors for use with raw cable. Allen-Bradley 3- and 4-pin pico style IDC field installable connectors contain insulation displacement connectors for quick and easy assembly of custom QD cables on the plant floor with minimal tools required.

Rockwell Automation is continually expanding its connection system offerings. If our standard catalog does not contain the item that you need, or you have a special application, please contact your local Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Styles

Configurator	3-104
Cordsets & Patchcords	3-106
V-Cables	3-118
Receptacles	3-122
Terminal Chambers	3-124
Field Attachable (IDC)	3-126

Cordsets & Patchcords
Pico Style
 Configurator

Cordset

889P – F 4 A B – 10
 a b c d e

a

Connector Type	
Code	Description
A	Straight Female, LED, NPN
B	Straight Female, LED, PNP
E	Right Angle Male (External Threads)
F	Straight Female (Internal Threads)
G	Straight Male, Snap On
H	Right Angle Male, Snap On
J	Straight Female, NPN, Snap On
K	Straight Female, PNP, Snap On
M	Straight Male (External Threads)
N	Right Angle Female, LED—NPN
P	Right Angle Female, LED—PNP
R	Right Angle Female (Internal Threads)
S	Straight Female, Snap-On
W	Right Angle Female, PNP, Snap-On
Y	Right Angle Female, NPN, Snap-On
Z	Right Angle Female, Snap-On

b

Number of Pins	
Code	Description
3...4	Number of Pins

c

Jacket Material	
Code	Description
A	PVC Cable, Yellow, Unshielded
J	PUR Cable, Black, Unshielded, Halogen Free
U	PUR Cable, Yellow, Unshielded

d

Wire Gauge	
Code	Description
B	24 AWG

e

Cable Length	
Code	Description
Blank	Meters (OM3 = 0.3 m)

Patchcord

889P – F 4 A B P M – 10
 a b c d e f g

a

Connector Type	
Code	Description
A	Straight Female, LED, NPN
B	Straight Female, LED, PNP
F	Straight Female (Internal Threads)
J	Straight Female, NPN, Snap On
K	Straight Female, PNP, Snap On
N	Right Angle Female, LED—NPN
P	Right Angle Female, LED—PNP
R	Right Angle Female (Internal Threads)
S	Straight Female, Snap-On
W	Right Angle Female, PNP, Snap-On
Y	Right Angle Female, NPN, Snap-On
Z	Right Angle Female, Snap-On

b

No. of Pins	
Code	Description
3...4	No. of Pins

c

Jacket Material	
Code	Description
A	PVC Cable, Yellow, Unshielded
J	PUR Cable, Black, Unshielded, Halogen Free
U	PUR Cable, Yellow, Unshielded

d

Wire Gauge	
Code	Description
B	24 AWG

e

Male End Connector Style	
Code	Description
D	DC Micro Quick Disconnect
P	Pico Quick Disconnect

f

Male End Connector Type	
Code	Description
E	Right Angle Male (External Threads)
G	Straight Male, Snap On
H	Right Angle Male, Snap On
M	Straight Male (External Threads)

g

Cable Length	
Code	Description
V	Reverse Wiring
Blank	Meters (OM3 = 0.3 m)

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.

Receptacles

888P – F 4 A C 1 – 0M3
 a b c d e f

a

Connector Type	
Code	Description
F	Female (External Threads)
M	Male (External Threads)

b

No. of Pins	
Code	Description
3...4	No. of Pins

c

Wire Type	
Code	Description
A	PVC

d

Wire Gauge	
Code	Description
B	24 AWG

e

Mounting Threads	
Code	Description
4	M8 x 0.5

f

Cable Length	
Code	Description
Blank	Meters (0M3 = 0.3 m)

3-Cordsets

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.

Cordsets and Patchcords, Pico Style

24 AWG, Yellow PVC or PUR, Screw-On, LED and NonLED



Pico Screw-On Style

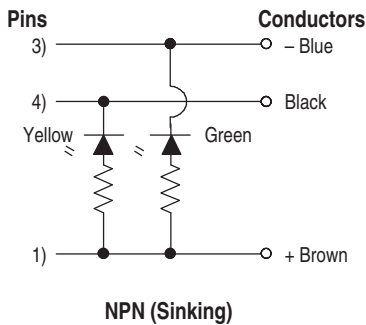
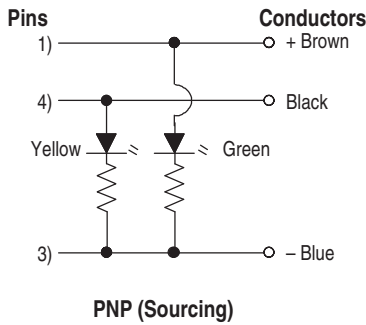
Features

- 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

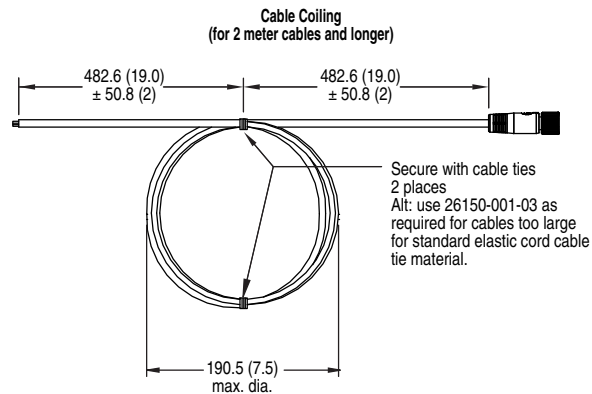
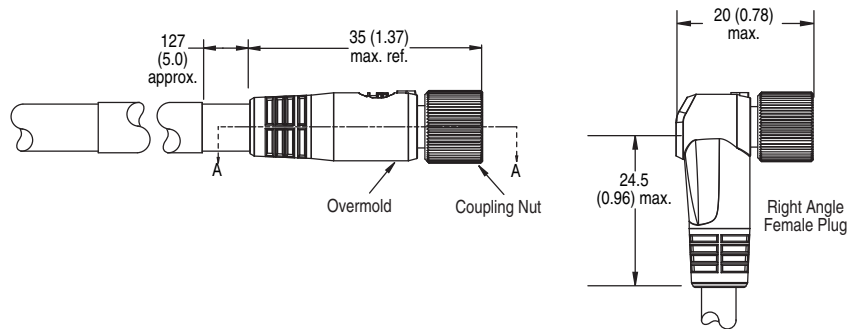
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC or PUR jacket, 24 AWG conductors, 300V, UL Recognized, CSA Certified
Cable Diameter [mm (in.)]	3/c = 4.6 (0.18) 4/c = 4.6 (0.18)
Electrical	
Cable Rating	PVC: UL CM AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1; PUR: UL AWM style 20233 or 20549 80C 300V
Assembly Rating	NonLED: 60V AC/75V DC, 4 A; LED: 10...30V DC, 4 A
Environmental	
Enclosure Type Rating	Screw-type: IP67; Snap-on type: IP65
Temperature Rating [C (F)]	PVC models: -20...+105° (-4...+221°) PUR models: -20...+80° (-4...+176°)

Typical Wiring Diagrams



Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Cordsets and Patchcords, Pico Style

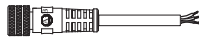
24 AWG, Yellow PVC or PUR, Screw-On, LED and NonLED

Pinout and Color Code

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

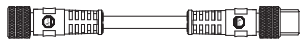
Product Selection

Screw-On Cordsets



No. of Pins	Jacket Material	Assembly Rating	Color Code	LED Type	Cat. No.*			
					Straight Female	Right Angle Female	Straight Male	Right Angle Male
3-Pin	Yellow PVC	24 AWG 60V AC/75V DC 4 A	A	—	889P-F3AB-2	889P-R3AB-2	889P-M3AB-2	889P-E3AB-2
	Yellow PUR				889P-F3UB-2	889P-R3UB-2	—	—
3-Pin LED	Yellow PVC	24 AWG 10...30V DC/4 A		PNP	—	889P-P3AB-2	—	—
	Yellow PUR				—	889P-P3UB-2	—	—
	Yellow PVC				—	889P-N3AB-2	—	—
	Yellow PUR				—	889P-N3UB-2	—	—
4-Pin	Yellow PVC	24 AWG 60V AC/75V DC 4 A		—	889P-F4AB-2	889P-R4AB-2	889P-M4AB-2	889P-E4AB-2
	Yellow PUR				889P-F4UB-2	889P-R4UB-2	889P-M4UB-2	889P-E4UB-2

Screw-On Patchcords



No. of Pins	Jacket Material	Assembly Rating	Color Code	Cat. No.*			
				Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin	Yellow PVC	24 AWG 60V AC/75V DC 4 A	A	889P-F3ABPM-2	889P-F3ABPE-2	889P-R3ABPM-2	889P-R3ABPE-2
4-Pin Female to 3-Pin Male				889P-F3UBPM-2	—	889P-R3UBPM-2	—
				889P-F4ABP3M-2	889P-F4ABP3E-2	889P-R4ABP3M-2	889P-R4ABP3E-2
4-Pin				889P-F4UBPM3-2	—	—	—
				889P-F4ABPM-2	—	—	—
				889P-F4UBPM-2	—	889P-R4UBPM-2	—

3-Cordsets

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 1 (1 m), 3 (3 m), 5 (5 m), or 10 (10 m) for standard lengths.

Cordsets and Patchcords, Pico Style

24 AWG, Yellow & Black PVC, TPE, PUR Screw-On



Pico Screw-On Style

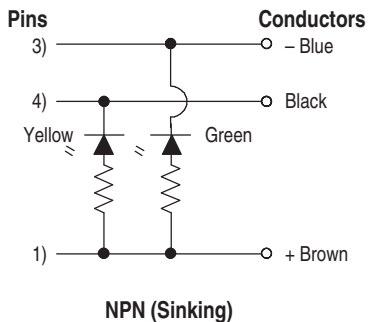
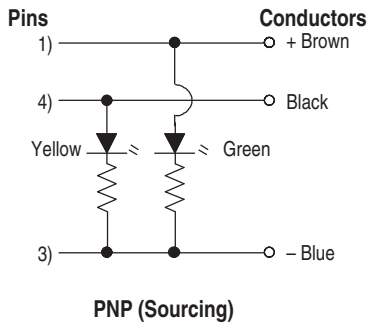
Features

- 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

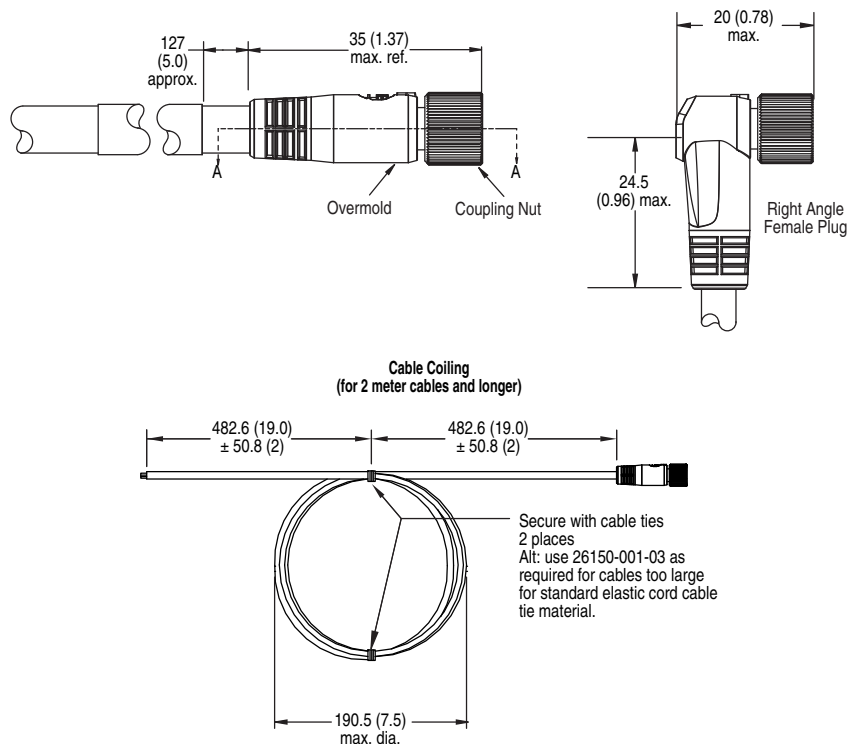
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC or PUR jacket, 24 AWG conductors, 300V, UL Recognized, CSA Certified
Cable Diameter [mm (in.)]	3/c = 4.6 (0.18) 4/c = 4.6 (0.18)
Electrical	
Cable Rating	PVC: CM UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1; PUR: UL AWM style 20233 or 20549 80C 300V
Assembly Rating	NonLED: 60V AC/75V DC, 4 A; LED: 10...30V DC, 4 A
Environmental	
Enclosure Type Rating	Screw-type: IP67; Snap-on type: IP65
Temperature Rating [C (F)]	PVC and TPE models: -20...+105° (-4...+221°) PUR models: -20...+80° (-4...+176°)

Typical Wiring Diagrams





Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



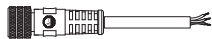
Cordsets & Patchcords
Cordsets and Patchcords, Pico Style
 24 AWG, Yellow & Black PVC, TPE, PUR Screw-On

Pinout and Color Code

Color Code	Face View Pinout	
	3-Pin	4-Pin
A	 1 Brown 2 NA 3 Blue 4 Black	—
B	—	 1 Brown 2 White 3 Blue 4 Black

Product Selection

Screw-On Cordsets

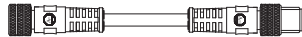


No. of Pins	Jacket Material	Color Code	Cat. No.*			
			Straight Female	Right Angle Female	Straight Male	Right Angle Male
3-Pin	Yellow PVC	A	889P-F3AB-2	889P-R3AB-2	889P-M3AB-2	889P-E3AB-2
4-Pin	Yellow PVC	A	889P-F4AB-2	889P-R4AB-2	889P-M4AB-2	889P-E4AB-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Change AB to:	For:
BB	Black PVC Cable
FB	Yellow PVC/Foil Shield and Drain
UB	Yellow PUR, Flex Cable
JB	Black Hallogen Free PUR
HB	Yellow TPE Flex

Screw-On Patchcords



No. of Pins	Jacket Material	Color Code	Cat. No.*			
			Straight Female to Straight Male	Straight Female to Right Angle Male	Right Angle Female to Straight Male	Right Angle Female to Right Angle Male
Male: Pico (3p) Female: Pico (3p)	Yellow PVC	A	889P-F3ABPM-2	889P-F3ABPE-2	889P-R3ABPM-2	889P-R3ABPE-2
Male: Pico (3p) Female: Pico (4p)			889P-F4ABP3M-2	889P-F4ABP3E-2	889P-R4ABP3M-2	889P-R4ABPE3-2
Male: Pico (3p) Female: Micro (4p)			889D-F4ABP3M-2	889D-F4ABP3E-2	889D-R4ABP3M-2	889D-R4ABP3E-2
Male: Pico (3p) Female: Micro (4p)			889D-F4ABP3M-V2	889D-F4ABP3E-2	889D-R4ABP3M-V2	889D-R4ABP3E-V2
Male: Micro (4p) Female: Pico (3p)			889P-F3ABD4M-2	889P-F3ABD4E-2	889P-R3ABD4M-2	889P-R3ABD4E-2
Male: Pico (4p) Female: Pico (4p)		B	889P-F4ABPE-2	889P-F4ABPE-2	889P-R4ABPM-2	889P-R4ABPE-2
Male: Pico (4p) Female: Micro (4p)			889D-F4ABPM-2	889D-F4ABPE-2	889D-R4ABPM-2	889D-R4ABPE-2
Male: Micro (4p) Female: Pico (4p)			889P-F4ABDM-2	889P-F4ABDE-2	889P-R4ABDM-2	889P-R4ABDE-2
Male: Micro (4p) Female: Pico (4p)			889P-F4ABDE-V2	889P-F4ABDE-V2	889P-R4ABDM-V2	889P-R4ABDE-V2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Change AB to:	For:
BB	Black PVC Cable
UB	Yellow PUR, Flex Cable
JB	Black Hallogen Free PUR
HB	Yellow TPE Flex

3-Cordsets

Cordsets and Patchcords, Pico Style

24 AWG, Yellow & Black PUR, PVC, TPE Snap-On



Pico Snap-On Style

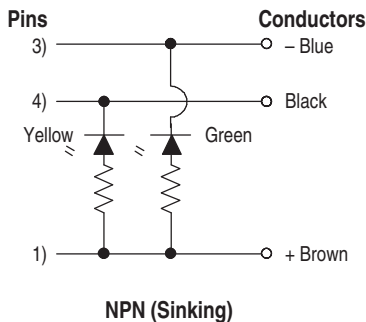
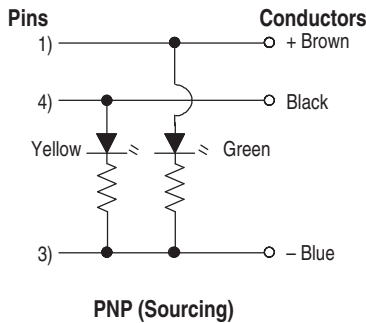
Features

- 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

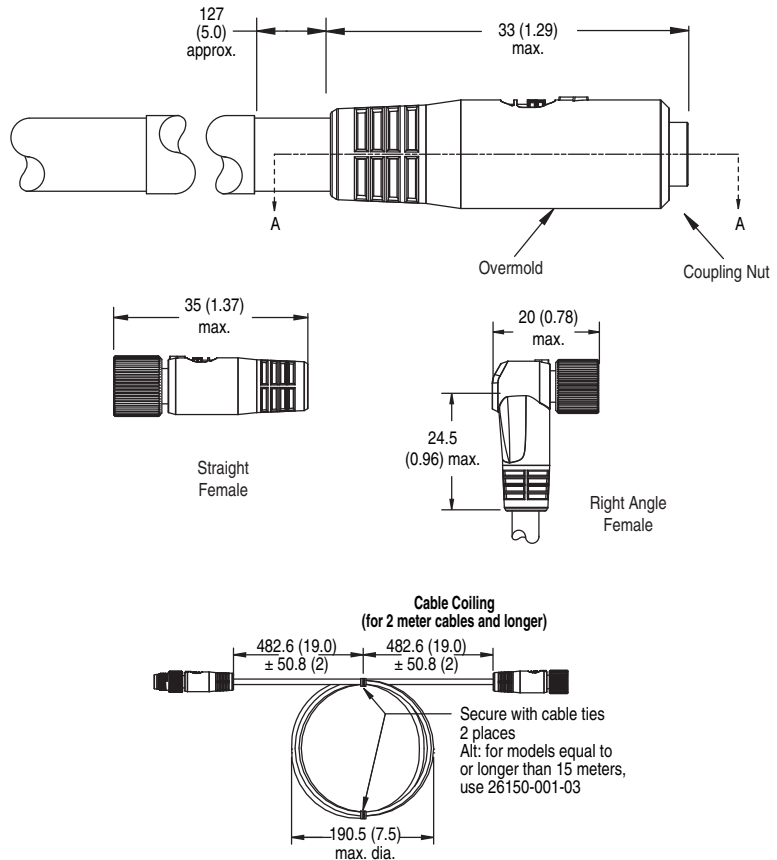
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC or PUR jacket, 24 AWG conductors, 300V, UL Recognized, CSA Certified
Cable Diameter [mm (in.)]	3/c = 4.6 (0.18) 4/c = 4.6 (0.18)
Electrical	
Cable Rating	PVC: UL CM AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1; PUR: UL AWM style 20233 or 20549 80C 300V
Assembly Rating	NonLED: 60V AC/75V DC, 4 A; LED: 10...30V DC, 4 A
Environmental	
Enclosure Type Rating	Screw-type: IP67; Snap-on type: IP65
Temperature Rating [C (F)]	PVC and TPE models: -20...+105° (-4...+221°) PUR models: -20...+80° (-4...+176°)

Typical Wiring Diagrams



Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



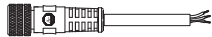
Cordsets & Patchcords
Cordsets and Patchcords, Pico Style
 24 AWG, Yellow & Black, PUR, PVC, TPE Snap-On

Pinout and Color Code

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

Product Selection

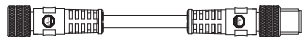
Snap-On Cordsets



No. of Pins	Jacket Material	Assembly Rating	Color Code	LED Type	Cat. No.*	
					Straight Female	Right Angle Female
3-Pin	Yellow PVC	24 AWG 60V AC/75V DC 4 A	A	—	889P-S3AB-2	889P-Z3AB-2
	Yellow PUR				889P-S3UB-2	889P-Z3UB-2
3-Pin LED	Yellow PVC	24 AWG 10...30V DC 4 A		PNP	—	889P-W3AB-2
	Yellow PUR				—	889P-W3UB-2
	Yellow PVC				—	889P-Y3AB-2
	Yellow PUR				—	889P-Y3UB-2
4-Pin	Yellow PVC	24 AWG 60V AC/75V DC 4 A		—	889P-S4AB-2	889P-Z4AB-2
	Yellow PUR				889P-S4UB-2	889P-Z4UB-2

Change AB to:	For:
BB	Black PVC Cable
FB	Yellow PVC/Foil Shield and Drain
UB	Yellow PUR, Flex Cable
JB	Black Hallogen Free PUR
HB	Yellow TPE Flex

Snap-On Patchcords



No. of Pins	Jacket Material	Color Code	Cat. No.*			
			Straight Female to Straight Male	Straight Female to Right Angle Male	Right Angle Female to Straight Male	Right Angle Female to Right Angle Male
Male: Pico (3p) Female: Pico (3p)	Yellow PVC	A	889P-S3ABPG-2	889P-S3ABPH-2	889P-Z3ABPG-2	889P-Z3ABPH-2
Male: Pico (3p) Female: Pico (4p)	Yellow PVC	A	889P-S4ABPG-2	889P-S4ABPH-2	889P-Z4ABPG-2	889P-Z4ABPH-2
Male: Pico (4p) Female: Pico (4p)	Yellow PVC	A	889P-S4ABPG-2	889P-S4ABPH-2	889P-Z4ABPG-2	889P-Z4ABPH-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Change AB to:	For:
BB	Black PVC Cable
UB	Yellow PUR, Flex Cable
JB	Black Hallogen Free PUR
HB	Yellow TPE Flex

3-Cordsets

Cordsets and Patchcords, Pico Style

24 AWG, Pico LED and Pico to Micro LED, PUR, PVC, TPE



Pico Screw-On Style

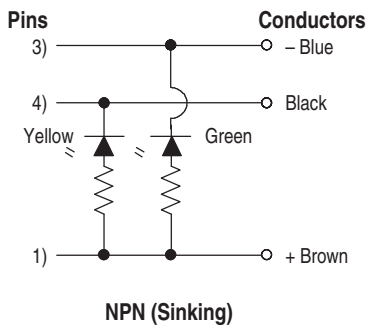
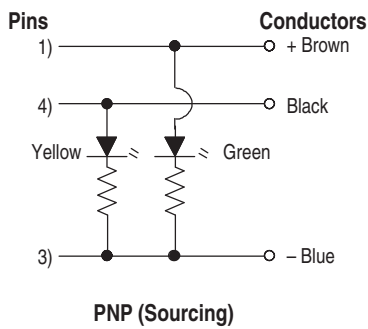
Features

- 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
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Material	Molded, oil-resistant, PUR
Contact Material	Gold-plated brass
Cable Type	Oil , water-, and UV-resistant, 24 AWG conductors, 300V, 4 A, AWM
Cable Diameter [mm (in.)]	3/c = 4.6 (0.18) 4/c = 4.6 (0.18)
Electrical	
Cable Rating	PVC: UL CM AWM style 2661 VW-1 105°C 300V, CSA AWM A/B I/II 105°C 300V FT1 PUR: UL AWM style 20233, 21198 or 10493 80°C 300V FT2 TPE: UL AWM style 20327 VW-1 105°C 300V FT1
Assembly Rating	NonLED: 60V AC/75V DC, 4 A LED: 10...30V DC, 4 A
Environmental	
Enclosure Type Rating	Screw type: IP67 Snap on type: IP65
Temperature Rating [C (F)]	PVC and TPE models: -20...+105° (-4...+221°) PUR models: -20...+80° (-4...+176°)

Typical Wiring Diagrams



Pinout and Color Code

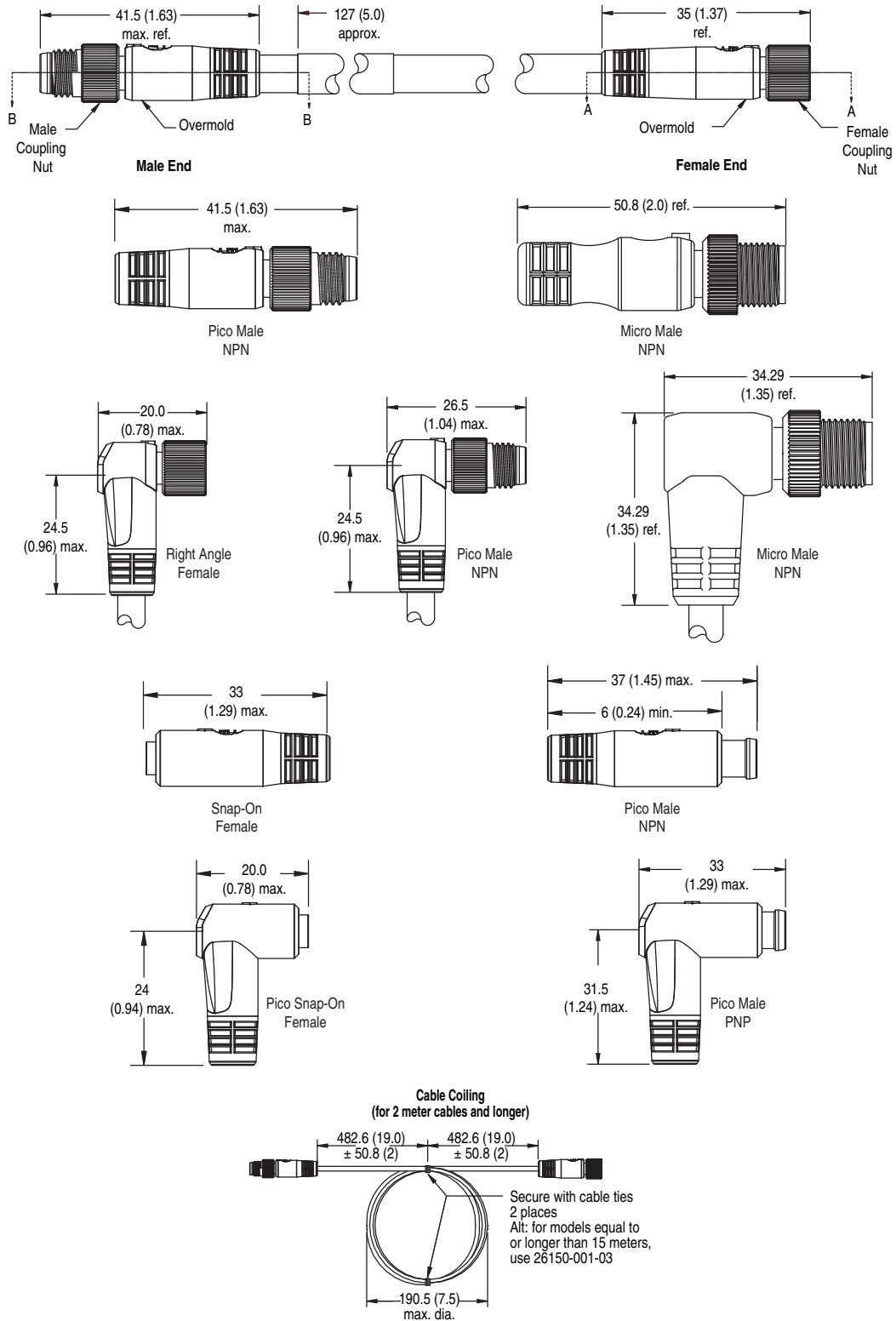
Color Code	Face View Pinout			
	3-Pin		4-Pin	
	Female	Male	Female	Male
A	1 Brown 2 Blue	4 Black	1 Brown 2 White	3 Blue 4 Black

Cordsets and Patchcords, Pico Style

24 AWG, Pico LED and Pico to Micro LED, PUR, PVC, TPE

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



3-Cordsets

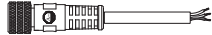
Cordsets & Patchcords

Cordsets and Patchcords, Pico Style

24 AWG, Pico LED and Pico to Micro LED, PUR, PVC, TPE

Product Selection

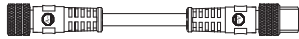
Screw-On Cordsets



No. of Pins	Jacket Material	Color Code	LED Type	Cat. No.*	
				Straight Female	Right Angle Female
3-pin	Yellow PVC	A	PNP	889P-B3AB-2	889P-P3AB-2
			NPN	889P-A3AB-2	889P-N3AB-2

Change AB to:	For:
BB	Black PVC Cable
FB	Yellow PVC, Shielded Cable
UB	Yellow PUR Cable
JB	Black PUR Cable
HB	TPE/ToughLink Cable

Screw-On Patchcords



Female Connector	Male Connector	Jacket Material	Color Code	Output	Cat. No.*			
					Straight Female to Straight Male	Straight Female to Right Angle Male	Right Angle Female to Straight Male	Right Angle Female to Right Angle Male
3-pin Pico	3-pin Pico	Yellow PVC	A	PNP	889P-B3ABPM-2	889P-B3ABPE-2	889P-P3ABPM-2	889P-P3ABPE-2
				NPN	889P-A3ABPM-2	889P-A3ABPE-2	889P-N3ABPM-2	889P-N3ABPE-2
	4-pin Micro			PNP	889P-B3ABD4M-2	889P-B3ABD4E-2	889P-P3ABD4M-2	889P-P3ABD4E-2
				NPN	889P-A3ABD4M-2	889P-A3ABD4E-2	889P-A3ABD4M-2	889P-N3ABD4E-2
	5-pin Micro	Yellow PVC, Shielded		PNP	889P-B3FBD5M-J2	889P-B3FBD5E-J2	889P-P3FBD5M-J2	889P-P3FBD5E-J2
				NPN	889P-A3FBD5M-J2	889P-A3FBD5E-J2	889P-N3FBD5M-J2	889P-N3FBD5E-J2

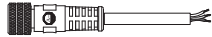
* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

Change AB to:	For:
BB	Black PVC Cable
UB	Yellow PUR, Flex Cable
JB	Black PUR Cable
HB	Yellow TPE/ToughLink Cable

Cordsets and Patchcords, Pico Style

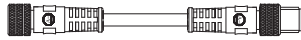
24 AWG, Pico LED and Pico to Micro LED, PUR, PVC, TPE

Snap-On Cordsets



No. of Pins	Jacket Material	Color Code	LED Type	Cat. No.*	
				Straight Female	Right Angle Female
3-pin	Yellow PUR	A	PNP	889P-K3UB-2	889P-W3UB-2
			NPN	889P-J3UB-2	889P-Y3UB-2
	Black PUR		PNP	889P-K3JB-2	889P-W3JB-2
			NPN	889P-J3JB-2	889P-Y3JB-2

Snap-On Patchcords



Female Connector	Male Connector	Jacket Material	Color Code	Output	Cat. No.*❖			
					Straight Female to Straight Male	Straight Female to Right Angle Male	Right Angle Female to Straight Male	Right Angle Female to Right Angle Male
3-pin Pico	4-pin Micro	Yellow PUR	A	PNP	889P-K3UBPM-2	889P-K3UBPE-2	889P-W3UBPM-2	889P-W3UBPE-2
				NPN	889P-J3UBPM-2	889P-J3UBPE-2	889P-Y3UBPM-2	889P-Y3UBPE-2
				PNP	889P-K3UBD4M-2	889P-K3UBD4E-2	889P-W3UBD4M-2	889P-W3UBD4E-2
				NPN	889P-Y3UBD4M-2	889P-J3UBD4E-2	889P-Y3UBD4M-2	889P-Y3UBD4E-2
		Black PUR		PNP	889P-K3JBPM-2	889P-K3JBPE-2	889P-W3JBPM-2	889P-W3JBPE-2
				NPN	889P-J3JBPM-2	889P-J3JBPE-2	889P-Y3JBPM-2	889P-Y3JBPE-2
				PNP	889P-K3JBD4M-2	889P-K3JBD4E-2	889P-W3JBD4M-2	889P-W3JBD4E-2
				NPN	889P-J3JBD4M-2	889P-J3JBD4E-2	889P-Y3JBD4M-2	889P-Y3JBD4E-2

* The 2 at the end of the cat. no. is for 2 m cable length. Replace the 2 with 5 (5 m) or 10 (10 m) for standard cable lengths.

❖ Stainless steel models are available by adding S to the cat. no., e.g., 889PS-P#ABDM-2.

❖ Nickel-plated brass models are available by adding N to the cat. no., e.g., 889PN-P3ABDM-2.

Patchcords, Pico Style

24 AWG, Pico to DC Micro, PVC

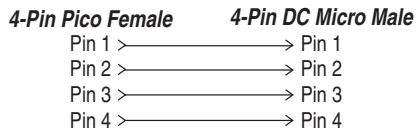
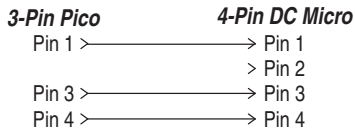


DC Micro to Pico Patchcord

Features

- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Convenient connection from pico to DC micro
- Ratcheting coupling nut for vibration resistance

Typical Wiring Diagrams

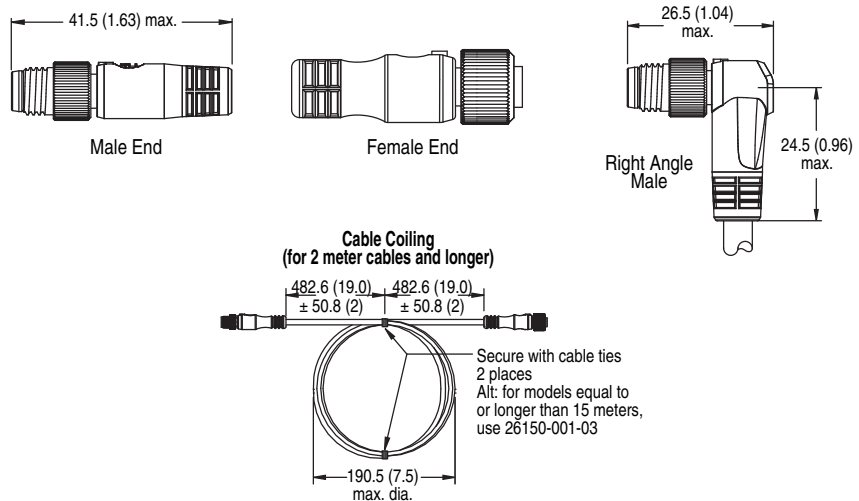


Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	DC Micro: Black epoxy-coated zinc; Pico: Nickel-plated brass
Connector Material	DC Micro: Molded oil-resistant PUR; Pico: Molded oil-resistant TPE
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC jacket, 24 AWG conductors, 300V, UL Recognized and CSA Certified
Cable Diameter [mm (in.)]	3/c = 4.6 (0.18) 4/c = 4.6 (0.18)
Electrical	
Cable Rating	UL CM AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1
Assembly Rating	60V AC/75V DC, 4 A
Environmental	
Enclosure Type Rating	Screw-type: IP67; Snap-on type: IP65
Temperature Rating [C (F)]	PVC and TPE models: -20...+105 ° (-4...+221 °) PUR models: -20...+80 ° (-4...+176 °)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout

Pinout	Face View Pinout					
	A		B		C	
	Female	Male	Female	Male	Female	Male
	3-Pin Pico Female to 4-Pin DC Micro Male		4-Pin Pico Female to 4-Pin DC Micro Male		4-Pin DC Micro Female to 3-Pin Pico Male	

Product Selection

Snap-On Female, Screw-On Male Patchcords 

Style: Female to Male	Pinout	Cat. No.*			
		Straight Female	Right Angle Female	Straight Male	Right Angle Male
Male: Pico (3p) Female: Pico (3p)	A	889P-S3ABPM-2	889P-S3ABPE-2	889P-Z3ABPM-2	889P-Z3ABPE-2
Male: Pico (3p) Female: Pico (4p)	A	889P-S4ABP3M-2	889P-S4ABP3E-2	889P-Z4ABP3M-2	889P-Z4ABP3E-2
Male: Micro (4p) Female: Pico (3p)	A	889P-S3ABD4M-2	889P-S3ABD4E-2	889P-Z3ABD4M-2	889P-Z3ABD4E-2
Male: Pico (4p) Female: Pico (4p)	B	889P-S4ABPM-2	889P-S4ABPE-2	889P-Z4ABPM-2	889P-Z4ABPE-2
Male: Micro (4p) Female: Pico (4p)	B	889P-S4ABDM-2	889P-S4ABDE-2	889P-Z4ABDM-2	889P-Z4ABDE-2
Male: Micro (4p) Female: Pico (4p)	B	889P-S4ABDM-V2	889P-S4ABDE-V2	889P-Z4ABDM-V2	889P-Z4ABDE-V2

Change AB to:	For:
AB	Yellow PVC Cable
BB	Black PVC Cable
UB	Yellow PUR, Flex Cable
JB	Black Halogen Free PUR Cable
HB	Yellow TPE Flex Cable

Screw-On Patchcords 

Style: Female to Male	Pinout	Cat. No.*			
		Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin Pico to 4-Pin Micro	A	889P-F3ABD4M-2	889P-F3ABD4E-2	889P-R3ABD4M-2	889P-R3ABD4E-2
4-Pin Pico to 4-Pin Micro	B	889P-F4ABDM-2	889P-F4ABDE-2	—	—
4-Pin Micro to 3-Pin Pico	C	889D-F4ABP3M-2	889D-F4ABP3E-2	889D-R4ABP3M-2	889D-R4ABP3E-2
Male: Pico (3p) Female: Pico (3p)	A	889P-F3ABPG-2	889P-F3ABPH-2	889P-R3ABPG-2	889P-R3ABPH-2
Male: Pico (3p) Female: Pico (4p)	B	889P-F4ABP3G-2	889P-F4ABP3H-2	889P-R4ABP3G-2	889P-R4ABP3H-2
Male: Micro (4p) Female: Pico (3p)	C	889D-F4ABP3G-2	889D-F4ABP3H-2	889D-R4ABP3G-2	889D-R4ABP3H-2
Male: Pico (3p) Female: Pico (4p)	A	889P-F4ABP3G-2	889D-F4ABP3H-V2	889D-R4ABP3G-V2	889D-R4ABP3H-V2
Male: Micro (4p) Female: Pico (4p)	B	889P-F4ABPG-2	889P-F4ABPH-2	889P-R4ABPG-2	889P-R4ABPH-2
Male: Micro (4p) Female: Pico (4p)	C	889D-F4ABPG-2	889D-F4ABPH-2	889D-R4ABPG-2	889D-R4ABPH-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **1** (1 m), **5** (5 m), or **10** (10 m) for standard lengths.

Change AB to:	For:
AB	Yellow PVC Cable
BB	Black PVC Cable
UB	Yellow PUR, Flex Cable
JB	Black Halogen Free PUR Cable
HB	Yellow TPE Flex Cable

3-Cordsets

Cordsets & Patchcords

V-Cables, Pico Style

24 AWG, Pico to DC Micro, PVC or PUR, LED and Non-LED

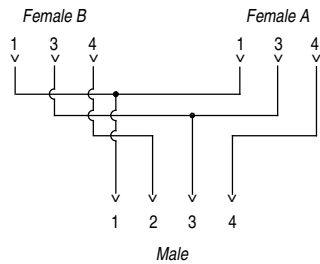


Pico V-Cables

Features

- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Convenient connection of two sensors to one I/O port
- Screw-on coupling nuts for rugged reliable connection
- Ratcheting coupling nuts for vibration resistance

Typical Wiring Diagrams

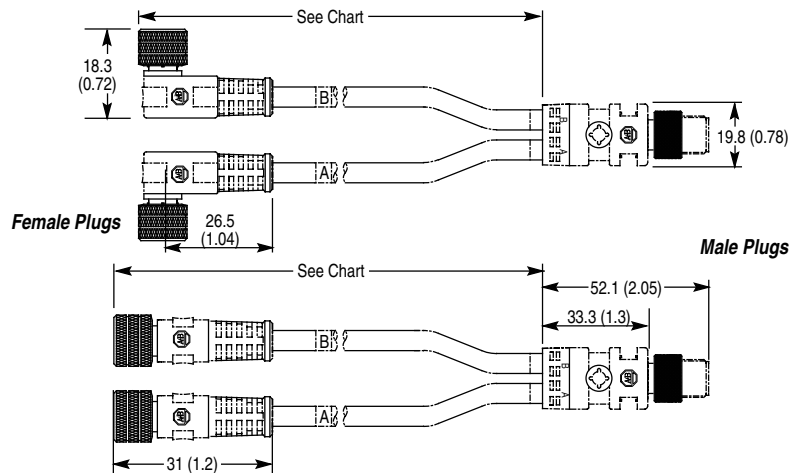


Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass (Pico); Epoxy-coated zinc (DC Micro)
Connector Material	Molded TPE
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC jacket, 24 AWG conductors, 300V, UL Recognized, CSA Certified
Bend Radius	10 x diameter
Cable Diameter [mm (in.)]	3/c = 4.3 (0.17) 4/c = 4.6 (0.18)
Electrical	
Cable Rating	UL CM AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1
Assembly Rating	NonLED: 60V AC/75V DC, 4 A; LED: 10...30V DC, 4 A
Environmental	
Enclosure Type Rating	IP67
Temperature Rating [C (F)]	PVC models: -20...+105° (-4...+221°) PUR models: -20...+80° (-4...+176°)

Approximate Dimensions


Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout

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

Product Selection

Screw-On V-Cables 

Female Connector	Jacket Material	Male Connector	LED Type	Pinout	Cat. No.*	
					Straight Female Connector	Right Angle Female Connector
3-Pin Pico	Yellow PVC	4-Pin DC Micro	—	A	879P-F3ABD4M-2	879P-R3ABD4M-2
	PUR		—		879P-F3UBD4M-2	879P-R3UBD4M-2
4-Pin Pico	PVC		—	B	879P-F4ABD4M-2	—
3-Pin Pico LED	PVC		PNP	A	—	879P-P3ABD4M-2
	PVC		NPN		—	879P-N3ABD4M-2
	PUR		PNP		—	879P-P3UBD4M-2
	PUR		NPN		—	879P-N3UBD4M-2

Snap-On Female, Screw-On Male V-Cables 

No. of Pins	Wire Size, AWG	Jacket Material	LED Type	Cat. No.*
3-pin	24	Yellow PVC	—	879P-S3UBD4M-2
			—	879P-Z3UBD4M-2
			PNP	879P-K3UBD4M-2
			PNP	879P-W3UBD4M-2
			NPN	879P-J3UBD4M-2
			NPN	879P-Y3UBD4M-2
4-pin			—	879P-S4UBDM-2
			—	879P-Z4UBDM-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **0M3** (0.3 m), **1** (1 m), **5** (5 m), or **10** (10 m) for standard lengths.

Change UB to:	For:	
JB	24 AWG	Black Halogen Free PUR Cable

3-Cordsets

Splitter, Pico Style

Pico to Pico, DC Micro to Pico



Splitter

Features

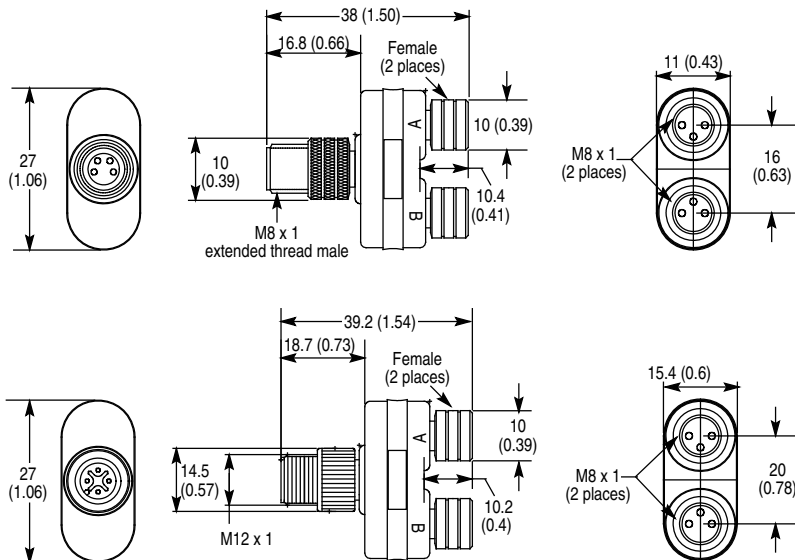
- Two 3-pin female pico to one 4-pin DC micro connector allows simplification of wiring
- PUR body offers good oil and chemical resistance
- Ratcheting coupling nuts for vibration resistance

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Black PUR
Connector Insert Material	PUR
Receptacle Shell Material	Nickel-plated brass
Contact Material	Gold-plated palladium/nickel
O-Ring Material	Viton®
Electrical	
Assembly Rating	60V AC/75V DC, 4 A
Environmental	
Enclosure Type Rating	IP67; NEMA 6P
Operating Temperature [C (F)]	-0...+85° (-32...+185°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout

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

Product Selection

Splitters

Connector Style	Wiring Diagram	Assembly Rating	Pinout	Cat. No.
Standard Wiring Pico to Pico		60V AC/75V DC, 4 A	A	898P-32YY-PM4
Standard Wiring Pico to DC Micro			B	898P-32YY-DM4

3-Cordsets

Receptacles, Pico Style

24 AWG, M8 Mounting Threads



Pico Receptacles

Features

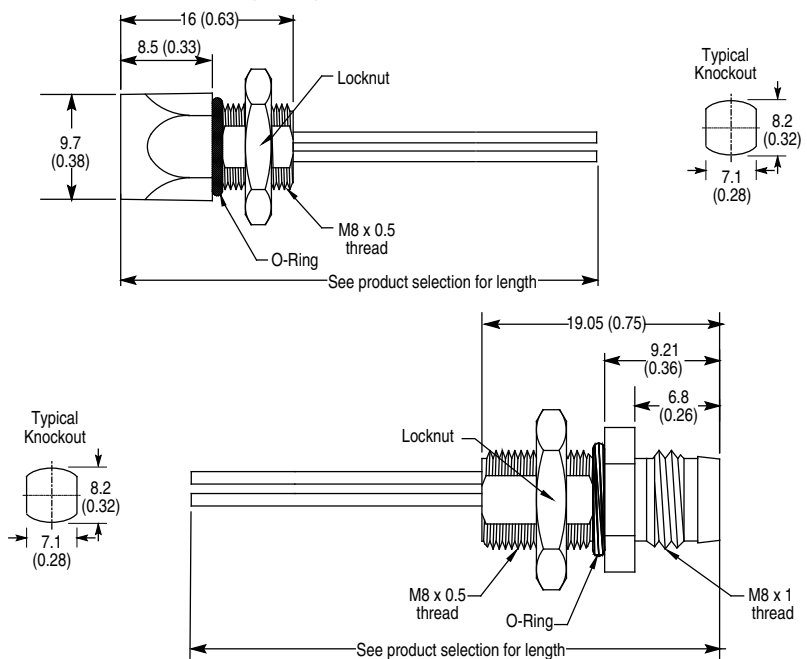
- Connector shell design accommodates threaded male connector types only
- 3-pin and 4-pin configurations provide standard connectivity
- M8 x 0.5 mounting threads for convenient installation

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Receptacle Shell Material	Nickel-plated brass
Connector Insert Material	PBT
Contact Material	Gold over nickel-plated brass
Electrical	
Assembly Rating	60V AC/75V DC, 7 A
Environmental	
Enclosure Type Rating	IP67
Operating Temperature [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout and Color Code

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

Product Selection

Receptacles

No. of Pins	Assembly Rating	Color Code	Panel Mount Threads	Cat. No.	
				Female	Male
3-pin	60V AC/75V DC, 7 A	A	M8 x 0.5	888P-F3AB4-1	888P-M3AB4-1
4-pin				888P-F4AB4-1	888P-M4AB4-1

* The **1** at the end of the cat. no. is for 1 m cable length. Replace the **1** with **0M3** (0.3 m) for standard lengths.

Terminal Chambers, Pico Style

Screw Terminal Field Attachable Connectors



3-Pin Pico Female

Features

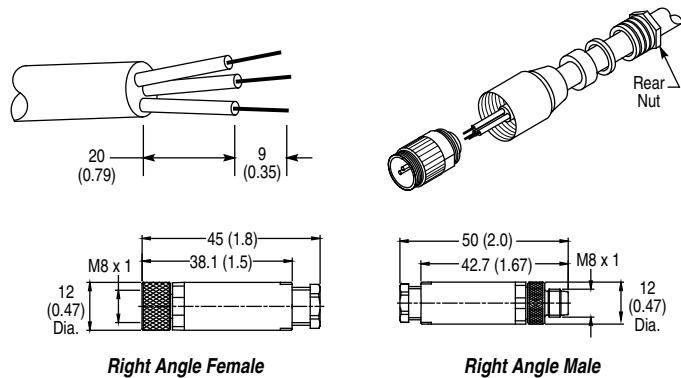
- Field installable
- 3- or 4-pin DC micro style
- Straight connectors
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations

Specifications

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

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Right Angle Female

Right Angle Male

Pinout and Color Code

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

Product Selection

Terminal Chambers

No. of Pins	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

3-Cordsets

Field Attachable, Pico Style

Insulated Displacement Connector



Pico Style Male

Features

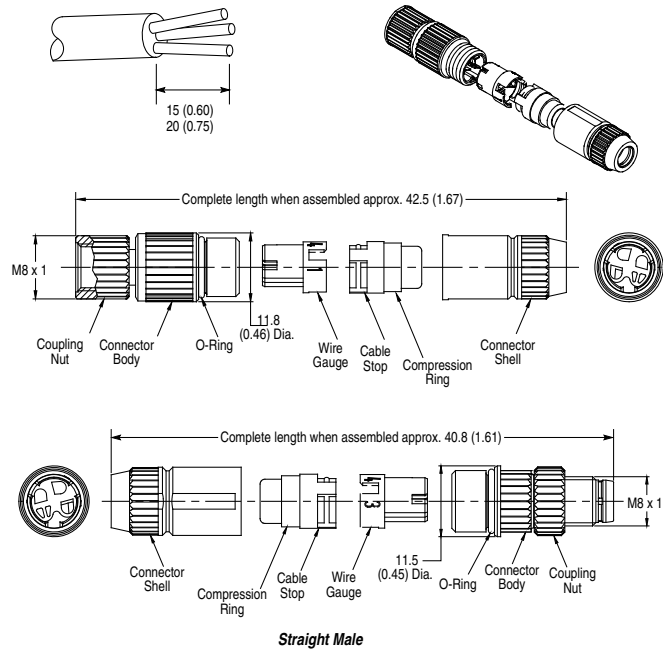
- Field installable with no hand tools needed
- 3- or 4-pin pico style
- Straight male or straight female connectors
- Allows easy modification of existing cable installations
- Insulation displacement technology for secure and reliable installation

Specifications





Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Shell Material	Nickel-plated brass
Connector Material	Hytrek Htr 8068
Field Contact Material	Gold-plated palladium nickel
IDC Installations, Max.	10
Cable Diameter	1.0...1.6 mm (0.04...0.063 in.)
Wire Size	22...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

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout and Color Code

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

Product Selection

Terminal Chambers 

Connector Style	Cable Jacket Diameter [mm (in.)]	Assembly Rating	Cat. No.	
			Female	Male
Straight	4.0...5.1 (0.16...0.20)	22V 3 A	889P-F3DC-H	889P-M3DC-H
			889P-F4DC-H	889P-M4DC-H

3-Cordsets



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 12-pin connectors, the Allen-Bradley M23 cables provide secure connection for high pin-count field devices utilizing M23 style connectors. Connectors can be straight or right angled and are physically keyed to prevent wiring mishaps. Allen-Bradley M23 style cabling options include:

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

M23 connector receptacles are also offered for bulkhead/panel installation. These 12-pin male connectors are ideal for use in enclosures and on field devices with M20 conduit openings, and allow for custom wiring configurations.

Terminal chambers, or field attachable connectors, are passive field-installable connectors for use with raw cable. Allen-Bradley 12-pin M23 style terminal chambers contain solder-cups and machined housing components for reliable installation and assembly.

Rockwell Automation is continually expanding its connection systems offerings. If our standard catalog does not contain the item that you need, or you have a special application, please contact your local Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Styles

Configurator3-130
 Cordset & Patchcords3-132
 Receptacles3-134
 Field Attachable (IDC)3-136

Cordsets & Field Attachables

M23 Style

Configurator

Cordset

889M F 12X9 A E - 10
a b c d e

a

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
R	Right Angle Female (Internal Threads)
U	Straight Male (Internal Threads)
V	Right Angle Male (Internal Threads)

b

Number of Pins	
Code	Description
9	12 pins, 9 conductors
11	12 pins, 11 conductors
12	12 pins, 12 conductors
19	19 pins, 19 conductors

c

Jacket Material	
Code	Description
A	PVC Cable, Yellow, Unshielded
R	PUR Cable, Black, Unshielded

d

Wire Gauge	
Code	Description
E	18 AWG
H	18 AWG with one twisted pair
M	3/18 AWG and Rest 22 AWG

e

Cable Length	
Code	Description
Blank	Meters (OM3 = 0.3 m)

Patchcord

888M - F 12 A H M U - 1
a b c d e f g

a

Connector Type	
Code	Description
F	Straight Female (Internal Threads)
R	Right Angle Female (Internal Threads)

b

No. of Pins	
Code	Description
12X9	12 pins, 9 conductors
11	12 pins, 11 conductors
12	12 pins, 12 conductors
19	19 pins, 19 conductors

c

Wire Type	
Code	Description
A	PVC Cable, Yellow, Unshielded
R	PUR Cable, Black, Unshielded

d

Wire Gauge	
Code	Description
H	18 AWG with one twisted pair
M	3/18 AWG and Rest 22 AWG

e

Male End Connector Style	
Code	Description
M	M23

f

Male End Connector Type	
Code	Description
U	Straight Male (Internal Threads)
V	Right Angle Male (Internal Threads)

g

Cable Length	
Code	Description
Blank	Meters (OM3 = 0.3 m)

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.

Receptacles

888M – F 12 A E CR – 0M3
 a b c d e f

a

Connector Type	
Code	Description
F	Female (External Threads)
M	Male (External Threads)

b

No. of Pins	
Code	Description
12X9	12 pins, 9 conductors
11	12 pins, 11 conductors
12	12 pins, 12 conductors
19	19 pins, 19 conductors

c

Wire Type	
Code	Description
A	PVC

d

Wire Gauge	
Code	Description
E	18 AWG

e

Mounting Threads	
Code	Description
Blank	M20 x 1.5

f

Cable Length	
Code	Description
Blank	Meters (0M3 = 0.3 m)

3-Cordsets

Note: The Configurators are for reference only. Please do not use these to create a catalog number as the result may be unavailable.

Cordsets & Field Attachables

Cordsets and Patchcords, M23 Style

18 or 18/22 AWG, Black or Yellow PVC



12-Pin M23 Cordset

Features

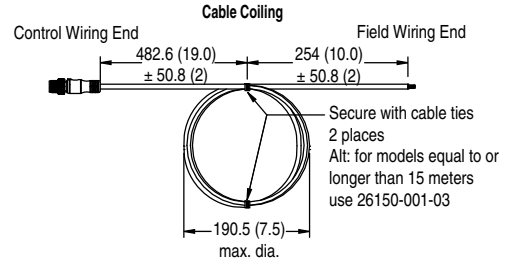
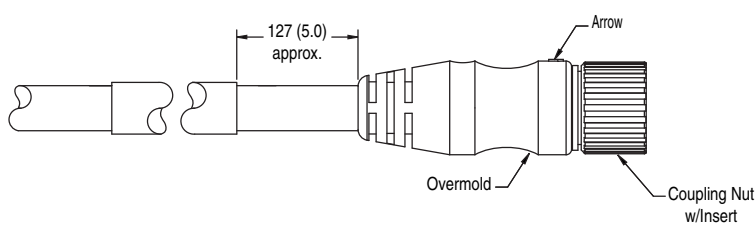
- 12-pin configuration for SafeShield™ light curtains and other applications
- 12-pin/11-conductor on 19-pin for passive distribution and other box applications
- Subtle black or highly visible yellow PVC jacket offers good oil and chemical resistance

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	9- & 12-conductor cables: oil-resistant PVC, yellow, PLTC, 300V, UL/CSA, 18 AWG 11-conductor cable: oil-resistant PUR, black, ITC/PLTC, 300V, UL/CSA (3) 18 AWG, (8) 22 AWG 19-conductor cable: oil-resistant PUR, black, ITC/PLTC, 300V, UL/CSA (3) 18 AWG, (16) 22 AWG
Bend Radius	10x diameter
Electrical	
Cable Rating	300V
Assembly Rating	9- & 12-pin: 6 A 11- & 19-conductor: 18 AWG-8 A, 22 AWG-2 A
Environmental	
Enclosure Type Rating	IP67, IP68
Temperature Rating [C (F)]	-20...+105° (-4...+221°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout and Color Code

Color Code	Face View Pinout																																		
	12-Pin	19-Pin																																	
	<p>Female Male</p>	<p>Female Male</p>																																	
A	<p>9-Conductor</p> <table border="0"> <tr> <td>1 Brown</td> <td>5 NA</td> <td>9 Pink</td> </tr> <tr> <td>2 NA</td> <td>6 Green</td> <td>10 Red</td> </tr> <tr> <td>3 Blue</td> <td>7 Yellow</td> <td>11 NA</td> </tr> <tr> <td>4 White</td> <td>8 Grey</td> <td>12 Green/Yellow</td> </tr> </table>	1 Brown	5 NA	9 Pink	2 NA	6 Green	10 Red	3 Blue	7 Yellow	11 NA	4 White	8 Grey	12 Green/Yellow	<table border="0"> <tr> <td>1 Violet</td> <td>7 Grey/Pink</td> <td>13 Yellow/Brown</td> </tr> <tr> <td>2 Red</td> <td>8 White/Green</td> <td>14 Brown/Green</td> </tr> <tr> <td>3 Grey</td> <td>9 White/Yellow</td> <td>15 White</td> </tr> <tr> <td>4 Red/Blue</td> <td>10 White/Grey</td> <td>16 Yellow</td> </tr> <tr> <td>5 Green*</td> <td>11 Black</td> <td>17 Pink</td> </tr> <tr> <td>6 Blue*</td> <td>12 Green/Yellow</td> <td>18 Grey/Brown</td> </tr> <tr> <td></td> <td></td> <td>19 Brown*</td> </tr> </table>	1 Violet	7 Grey/Pink	13 Yellow/Brown	2 Red	8 White/Green	14 Brown/Green	3 Grey	9 White/Yellow	15 White	4 Red/Blue	10 White/Grey	16 Yellow	5 Green*	11 Black	17 Pink	6 Blue*	12 Green/Yellow	18 Grey/Brown			19 Brown*
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B	<p>11-Conductor (pins 9/10 jumpered)</p> <table border="0"> <tr> <td>1 White</td> <td>5 Pink</td> <td>9 Blue*</td> </tr> <tr> <td>2 Green</td> <td>6 Red</td> <td>10 Blue</td> </tr> <tr> <td>3 Yellow</td> <td>7 Black</td> <td>11 Brown*</td> </tr> <tr> <td>4 Grey</td> <td>8 Violet</td> <td>12 Green/Yellow*</td> </tr> </table>	1 White	5 Pink	9 Blue*	2 Green	6 Red	10 Blue	3 Yellow	7 Black	11 Brown*	4 Grey	8 Violet	12 Green/Yellow*	—																					
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C	<p>12-Conductor</p> <table border="0"> <tr> <td>1 Brown</td> <td>5 Red</td> <td>9 Black</td> </tr> <tr> <td>2 Blue</td> <td>6 Yellow</td> <td>10 Violet</td> </tr> <tr> <td>3 Grey</td> <td>7 White</td> <td>11 Grey/Pink</td> </tr> <tr> <td>4 Pink</td> <td>8 Red/Blue</td> <td>12 Green</td> </tr> </table>	1 Brown	5 Red	9 Black	2 Blue	6 Yellow	10 Violet	3 Grey	7 White	11 Grey/Pink	4 Pink	8 Red/Blue	12 Green	—																					
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3 Grey	7 White	11 Grey/Pink																																	
4 Pink	8 Red/Blue	12 Green																																	

* 18 AWG

Cordsets & Field Attachables
Cordsets and Patchcords, M23 Style
 18 or 18/22 AWG, Black or Yellow PVC

Product Selection

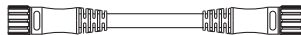
Cordsets



No. of Conductors	Color Code	Connector Type	Cable Diameter [mm (in.)]	Cat. No.*					
				Straight Female	Right Angle Female	Straight Male	Right Angle Male	Straight Male	Right Angle Male
				(Internal Threads)		w/Internal Threads		w/External Threads	
9	A	12-pin	10.1 (0.40)	889M-FX9AE-2	889M-RX9AE-2	889M-UX9AE-2	889M-VX9AE-2	889M-MX9AE-2	889M-EX9AE-2
11	B	12-pin	10.1 (0.40)	889M-F11RM-2	889M-R11RM-2	889M-U11RM-2	889M-V11RM-2	889M-M11RM-2	889M-E11RM-2
12	C	12-pin	10.8 (0.43)	889M-F12AH-2	889M-R12AH-2	889M-U12AH-2	889M-V12AH-2	889M-M12AH-2	889M-E12AH-2
19	A	19-pin	12.1 (0.48)	889M-F19RM-2	889M-R19RM-2	889M-U19RM-2	889M-V19RM-2	889M-M19RM-2	889M-E19RM-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **5** (5 m) or **10** (10 m) for standard cable lengths.

Patchcords with Internal Threads



No. of Conductors	Connector Type	Cable Diameter [mm (in.)]	Cat. No.§			
			Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
			w/Internal Threads			
—	12-pin	10.1 (0.40)	889M-FX9AEMU-2	889M-FX9AEMV-2	889M-RX9AEMU-2	889M-RX9AEMV-2
11	12-pin	10.1 (0.40)	889M-F11RMMU-2	889M-F11RMMV-2	889M-R11RMMU-2	889M-R11RMMV-2
12	12-pin	10.8 (0.43)	889M-F12AHMU-2	889M-F12AHMV-2	889M-R12AHMU-2	889M-R12AHMV-2
19	12-pin	12.1 (0.48)	889M-F19RMMU-2	889M-F19RMMV-2	889M-R19RMMU-2	889M-R19RMMV-2

§ The **2** at the end of the cat. no. is for 2 m cable length. For Cat. No. 889M-F12AHMU only, replace the **2** with **0M3** (0.3 m), **0M6** (0.6 m), **1** (1 m), or **3** (3 m) for standard cable lengths. For all other cat. nos., replace the **2** with **0M3** (0.3 m), **1** (1 m), **5** (5 m) or **10** (10 m) for standard cable lengths.

Patchcords with External Threads



No. of Conductors	Connector Type	Cable Diameter [mm (in.)]	Cat. No.§			
			Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
			w/External Threads			
9	12-pin	10.1 (0.40)	889M-FX9AEMM-2	889M-FX9AEME-2	889M-RX9AEMM-2	889M-RX9AEME-2
11	12-pin	10.1 (0.40)	889M-F11RMMM-2	889M-F11RMME-2	889M-R11RMMM-2	889M-R11RMME-2
12	12-pin	10.8(0.43)	889M-F12AHMM-2	889M-F12AHME-2	889M-R12AHMM-2	889M-R12AHME-2
19	19-pin	12.1 (0.48)	889M-F19RMMM-2	889M-F19RMME-2	889M-R19RMMM-2	889M-R19RMME-2

§ The **2** at the end of the cat. no. is for 2 m cable length. For Cat. No. 889M-F12AHMU only, replace the **2** with **0M3** (0.3 m), **0M6** (0.6 m), **1** (1 m), or **3** (3 m) for standard cable lengths. For all other cat. nos., replace the **2** with **0M3** (0.3 m), **1** (1 m), **5** (5 m) or **10** (10 m) for standard cable lengths.

3-Cordsets

Cordsets & Field Attachables
Receptacles, M23 Style
 18 or 18/22 AWG, M20 Mounting Threads



12-Pin Male M23 Receptacle

Features

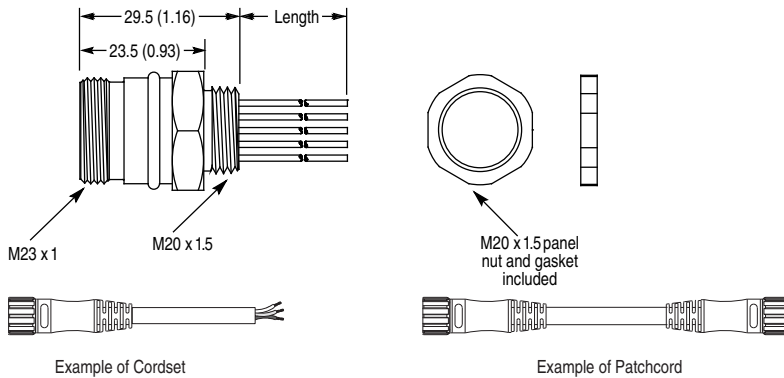
- 18 AWG conductors for ease of wiring
- 12-pin configuration provides standard connectivity
- M20 x 1.5 threads for convenient mounting to safety switches
- Mounting nut and rubber sealing washer included

Specifications

Mechanical	
Receptacle Shell Material	Nickel-plated brass
Connector Insert Material	Nylon
Contact Material	Machined brass with gold over nickel plating
Cable Type	Oil-resistant PVC, 18 AWG stranded copper, 300V, UL Recognized and CSA Certified
Electrical	
Assembly Rating	9-, 11-, 12-pin: 63V, 6 A 19-pin: 63V, 12 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6P, 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-20...+105° (-4...+221°)

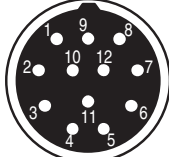
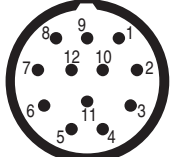
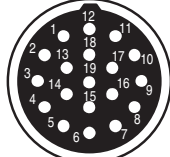
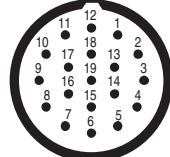
Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Cordsets & Field Attachables
Receptacles, M23 Style
 18 or 18/22 AWG, M20 Mounting Threads

Pinout and Color Code

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

Product Selection

Receptacles 

No. of Pins	Color Code	Wire Size	Cat. No.§	
			Female	Male
9-Pin	A	18 AWG	888M-F12X9AE-1	888M-M12X9AE-1
11-Pin	B	3/18 & 8/22 AWG	888M-F11AE-1	888M-M11AE-1
12-Pin	C	18 AWG	888M-F12AE-1	888M-M12AE-1
19-Pin	A	3/18 & 16/22 AWG	888M-F19AE-1	888M-M19AE-1

§ The 1 at the end of the cat. no. is for 1 ft (12 in.) cable length. Replace the 1 with **0F5** for 0.5 ft (6 in.) cable length.

3-Cordsets

Cordsets & Field Attachables
Field Attachable, M23 Style
 Solder Type



Field-Attachable M23 Connector

Features

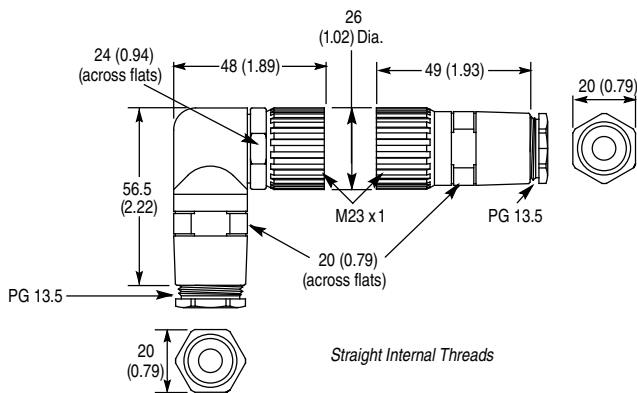
- Straight or right angle, male or female
- 12- or 19-pin M23 style for standard connectivity
- Allows modification of existing cable installations and field creation of special cable lengths
- Solder connector for secure and reliable installation
- Spanner wrench for assembly of connector available

Specifications

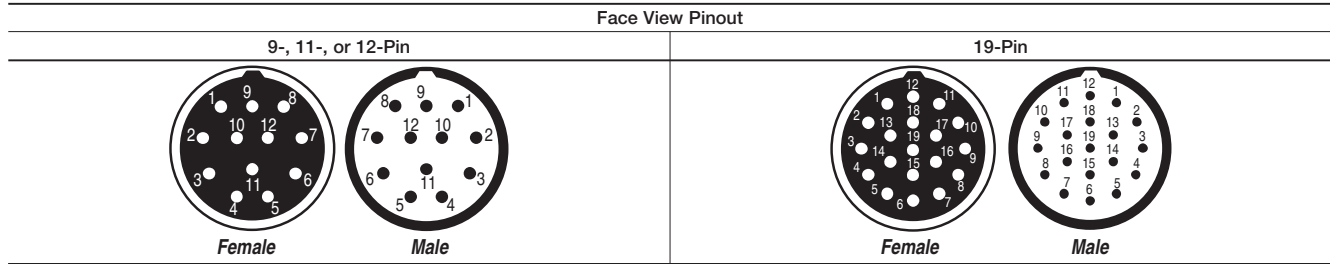
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Shell Material	Nickel-plated brass
Contact Material	Gold-plated palladium/nickel
Cable Diameter [mm (in.)]	10...14 (0.39...0.55)
Electrical	
Assembly Rating	63V, 12 A power, 3 A all others
Environmental	
Enclosure Type Rating	IP65
Operating Temperature [C (F)]	-20...+105° (-4...221°)

Approximate Dimensions


Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout



Product Selection

Field Attachables 

No. of Pins	Cable Jacket Diameter [mm (in.)]	Assembly Rating	Cat. No.			
			Straight Female	Right Angle Female	Straight Male	Right Angle Male
12-Pin	10...14 (0.39...0.55)	63V, 12 A power, 3 A all others	889M-F12AH-T	889M-R12AH-T	889M-M12AH-T	889M-E12AH-T
19-Pin			889M-F19AH-T	889M-R19AH-T	889M-M19AH-T	889M-E19AH-T
Spanner wrench (sold separately)						889A-M23SW

3-Cordsets



Description

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

Allen-Bradley DIN valve field attachable connectors and cables provide a secure connection in industrial hydraulic and pneumatic applications involving solenoid valves and pressure switches. Available in a variety of sizes and wiring configurations, these DIN valve connectivity products not only provide standard connectivity, but also provide environmental protection. In addition, some models incorporate surge protection circuitry, that protects the solenoid coils within other devices from potentially harmful current spikes. Rockwell Automation DIN valve offerings include:

- **Cordsets:** Cable with integral female connector at one end and flying leads at the other. Available in Valve A style (18 mm), Valve B style (11 mm), and Valve C style (9.4 mm).
- **Field attachable connectors:** passive field-installable connectors for use with raw cable. Screw terminals for quick and easy assembly of custom QD cables on the plant floor. Available in Valve A style (18 mm), Valve B style (11 mm), Valve BEU style (10 mm), Valve C style (9.4 mm), and Valve CEU style (8 mm).

Features

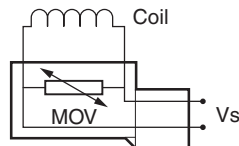
- Standard connectivity for a variety of fluid power applications
- Integral surge protection circuitry (on some models) protect field devices from potentially disruptive current spikes
- Available with power indicating LED option
- Cordsets available in Valve A (18 mm), Valve B (11 mm), and Valve C (9.4 mm) styles
- Field attachable connectors allow for quick and easy customization of cables on the plant floor
- Field attachable connectors available in Valve A (18 mm), Valve B (11 mm), Valve BEU (10 mm), Valve C (9.4 mm), and Valve CEU (8 mm) styles
- IP 67 enclosure rating for cordsets and IP65 for field attachables

Rockwell Automation is continually expanding its connection system offerings. If our standard catalog does not contain the item that you need, or you have a special application, please contact your Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Surge Suppression Circuitry

Allen-Bradley uses a MOV (metal oxide varistor) in parallel with the coil. When applying or disconnecting power, the energy stored in the coil is limited by the MOV.

- Best drop out time (time it takes for the energy stored in the coil to drop to zero)
- Works with AC or DC voltages
- Not polarity dependent
- Coil, supply, and switch are protected



Styles

Competitive Naming Convention	3-140
Configurator	3-141
Cordsets & Patchcords	3-142
Field Attachable (IDC)	3-148

3-Cordsets

Cordsets & Field Attachables

DIN Valve Style

Competitive Naming Convention

Competitive Naming Convention

Company Name	Product Name	18 mm	11 mm	10 mm	9.4 mm	8 mm
Rockwell Automation	DIN Valve Style	Valve A Style Bulletin 889V	Valve B Style Bulletin 889W	Valve BEU Style Bulletin 889Y	Valve C Style Bulletin 889Z	Valve CEU Style Bulletin 889S
Binder	Solenoid Valve	Size A—Series 210	Size B—Industrial Standard	Size B—DIN EN 175301-803	Size C—Industrial Standard	Size C—DIN EN 175301-803
Canfield	Solenoid Valve	ISO Form A	MINI Industry Standard	Form B	Sub Micro Form C	Sub Micro Form C
Crouse-Hinds	DIN-43650 Valve	DIN 43650 Form A	Industry Standard	DIN 43650 Form B	Industry Standard	DIN 43650 Form C
Lumberg	DIN Valve	DIN Form A—VAD Series/ISO 4400	Industry Standard—DIN Form B—VB Series	DIN Form B—VBD Series	Industry Standard—DIN Form C—VC Series	DIN Form C—VCD Series
Turck	V-Fast	Type A	Type I	Type B	Type C	Type C
Woodhead/Brad Harrison	mPm DIN 43650	DIN 43650 Type A	DIN 43650 Industrial Standard B	DIN 43650 Form B	DIN 43650 Industrial Standard C	DIN 43650 Form C
Phoenix	Actuator Cables with Valve Connector	Valve Connector Type A	Valve Connector Type BI	Valve Connector Type B	Valve Connector Type CI	Valve Connector Type C

Cordset

889 **V** - **R** **Z** **2D** **B** **E** **DD** **2**
a b c d e f g h

a

Product Type	
Code	Description
V	DIN Valve A style (18 mm)
W	DIN Valve B style (11 mm)
Z	DIN Valve C style (9.4 mm)

b

First End Descriptor	
Code	Description
L	LED, Right Angle, Female
R	Right Angle Female

c

Voltage Range	
Code	Description
Z	0...250V
D	24V
A	115V

d

Pole Count, Orientation	
Code	Description
2A	2 pole + ground (away from cable exit)
2D	2 pole + dual ground
2G	2 pole + ground (toward cable exit)
3A	3 pole + ground (away from cable exit)
3G	3 pole + ground (toward cable exit)

e

Cable Type/Thread Size	
Code	Description
B	PVC Cable, Black, Unshielded
R	PUR Cable, Black, Unshielded

f

Wire Size	
Code	Description
D	20 AWG
E	18 AWG

g (Patchcords only)

Second End Descriptor	
Code	Description
DD	Straight, M12, Male

h

Cable Length	
Code	Description
X	Meters (2 = 2 m) Meters (5 = 5 m) Meters (10 = 10 m)

Field Attachable Connectors

889 **V** - **R** **Z** **2G** **C** **F** **T**
a b c d e f g

a

Product Type	
Code	Description
V	DIN Valve A style (18 mm)
W	DIN Valve B style (11 mm)
Y	DIN Valve BEU style (10 mm)
Z	DIN Valve C style (9.4 mm)
S	DIN Valve CEU style (8 mm)

b

First End Descriptor	
Code	Description
L	LED, Right Angle, Female
R	Right Angle Female

c

Voltage Range	
Code	Description
Z	0...250V
D	24V
A	115V
C	230V

d

Pole Count, Orientation	
Code	Description
2G	2 pole + ground
3G	3 pole + ground

e

Cable Type/Thread Size	
Code	Description
D	PG 7
C	PG 9
F	PG 11
N	1/2 in. NPTF

f

Wire Size, Max.	
Code	Description
E	20 AWG
F	14 AWG

g

Cable Length	
Code	Description
T	Terminal Chamber

3-Cordsets

Cordsets & Patchcords, DIN Valve Style

DIN Valve A (18 mm)



Valve A Cordset

Features

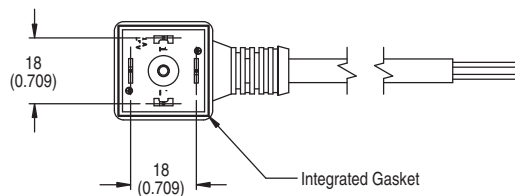
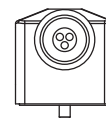
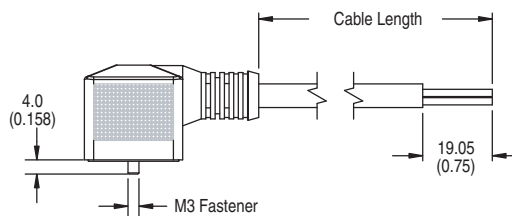
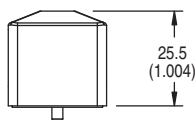
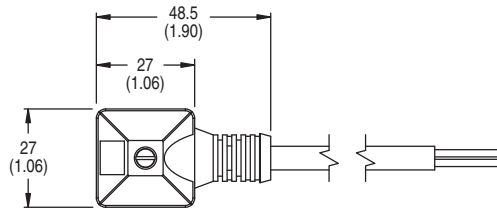
- Conforms to EN 175301-803/DIN 43650
- Black PVC jacket offers good oil and chemical resistance
- Indicating amber LED option
- Available with surge protection circuitry
- 2-pole + dual ground and 3-pole + ground configurations
- DIN to M12 option available

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Housing Material	Molded oil-resistant PUR (NonLED version: black, LED version: clear)
Gasket Material	Nitrile
Contact Material	Tin-plated copper
Mounting Screw	18-8 Stainless Steel
Cable Type	Oil-resistant black PVC jacket, 18 AWG conductor, 300V, UL Recognized and CSA Certified
Home Run Connection	10x diameter, min.
Cable Diameter [mm (in.)]	18 AWG, 3-conductor: 5.5 (0.216), 4-conductor: 6 (0.235)
Electrical	
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	Straight wired: 0...250V AC/DC, 10 A LED & Varistor surge suppression: 24V or 115V AC/DC, 10 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6
Temperature Rating [C (F)]	-25...+80° (-13...+176°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Cordsets & Field Attachables
Cordsets & Patchcords, DIN Valve Style
 DIN Valve A (18 mm)

Pinout

Face View Pinout			
2-Pin	3-Pin		5-Pin
Dual Ground	Ground Toward Cable Exit	Ground Away from Cable Exit	
			 Female
	1 Brown 2 Blue 3 Black GND Yellow & Green		 Male
			1 Brown 2 White 3 Blue 4 Black 5 Grey

Product Selection

Cordsets

Pinout	Color Code	Wiring	Voltage	Orientation	Cat. No.	
2-pole + dual ground	Brown, Blue, Green/Yellow	Straight Wired	0...250V AC/DC	N/A	889V-RZ2DBE-2	
					889V-RZ2DBE-5	
					889V-RZ2DBE-10	
					889V-LD2DBE-2	
		LED & Varistor Surge Suppression	24V AC/DC		889V-LD2DBE-5	
					889V-LD2DBE-10	
					115V AC/DC	889V-LA2DBE-2
						889V-LA2DBE-5
3-pole + ground	Brown, Blue, Black, Green/Yellow	Straight Wired	0...250V AC/DC	Ground Toward Cable Exit	889V-LA2DBE-10	
					889V-RZ3GBE-2	
					889V-RZ3GBE-5	
					889V-RZ3GBE-10	
				Ground Away from Cable Exit	889V-RZ3ABE-2	
					889V-RZ3ABE-5	
					889V-RZ3ABE-10	
					889V-RZ3ABE-10	

3-Cordsets

Note: 20 AWG PUR DIN valve cordsets may be ordered by replacing **BE** with **RD** (i.e., 889V-LA2DRD-2).

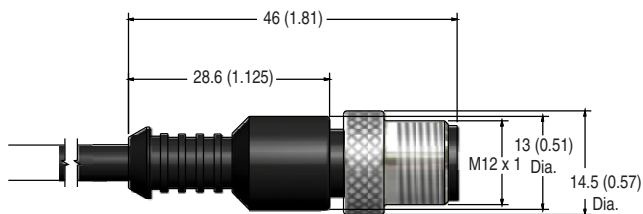
Patchcords

Pinout	Wire Size, AWG	Jacket Material	Wire Type	Voltage	Orientation	Cat. No.*
2-pole + dual ground	20	PVC	Standard	0...120V	N/A	889V-RZ2DBDD-2
			LED & MOV	24V	N/A	889V-LD2DBDD-2
			LED & MOV	120V	N/A	889V-LA2DBDD-2
3-pole + ground	20	PVC	Standard	0...120V	N/A	889V-RZ3GBDD-2
			Standard	0...120V	N/A	889V-RZ3ABDD-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **1** (1 m), **5** (5 m), or **10** (10 m) for standard lengths.

Note: 20 AWG PUR DIN valve cordsets may be ordered by replacing **BD** with **RD** (i.e., 889V-LA2DRD-2).

M12 Connector End of Patchcord



Cordsets & Patchcords, DIN Valve Style

DIN Valve B (11 mm)



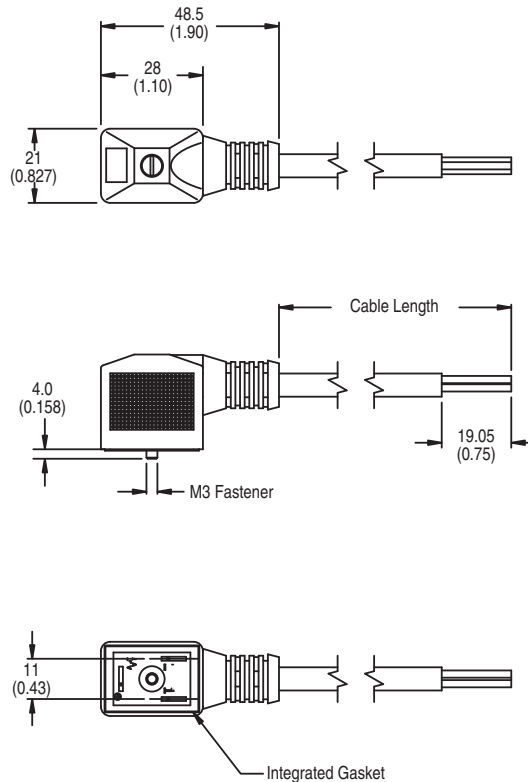
Valve B Cordset

Features

- Conforms to EN 175301-803/DIN 43650
- Black PVC jacket offers good oil and chemical resistance
- Indicating amber LED option
- Available with surge protection circuitry
- 2-pole and ground configurations
- DIN to M12 option available

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



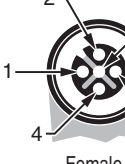



Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Housing Material	Molded oil-resistant PUR (NonLED version: black, LED version: clear)
Gasket Material	Nitrile
Contact Material	Tin-plated copper
Mounting Screw	18-8 Stainless Steel
Cable Type	Oil-resistant PVC jacket, 18 AWG conductor, 300V, UL Recognized and CSA Certified
Home Run Connection	10x diameter, min.
Cable Diameter [mm (in.)]	18 AWG, 3-conductor: 5.5 (0.216), 4-conductor: 6 (0.235)
Electrical	
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	Straight Wired: 0...250V AC/DC, 10 A LED & Varistor surge suppression: 24V or 115V AC/DC, 10 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6
Temperature Rating [C (F)]	-25...+80° (-13...+176°)

Cordsets & Field Attachables
Cordsets & Patchcords, DIN Valve Style
 DIN Valve B (11 mm)

Pinout

Face View Pinout	
2-Pin	5-Pin
Ground Toward Cable Exit	Ground Away from Cable Exit
	
 Female	 Male
1 Brown 2 Blue GND Yellow & Green	1 Brown 2 White 3 Blue 4 Black 5 Grey

Product Selection

Cordsets

Pinout	Color Code	Cable Type	Wiring	Voltage	Orientation	Cat. No.
2-pole + ground	Brown, Blue, Green/Yellow	18 AWG Black PVC	Straight Wired	0...250V AC/DC	Ground Toward Cable Exit	889W-RZ2GBE-2
						889W-RZ2GBE-5
						889W-RZ2GBE-10
					Ground Away from Cable Exit	889W-RZ2ABE-2
						889W-RZ2ABE-5
						889W-RZ2ABE-10
			LED & Varistor Surge Suppression	24V AC/DC	Ground Toward Cable Exit	889W-LD2GBE-2
						889W-LD2GBE-5
						889W-LD2GBE-10
					Ground Ground Away from Cable Exit	889W-LD2ABE-2
						889W-LD2ABE-5
						889W-LD2ABE-10
Ground Toward Cable Exit	115V AC/DC	889W-LA2GBE-2				
		889W-LA2GBE-5				
		889W-LA2GBE-10				
		Ground Ground Away from Cable Exit	889W-LA2ABE-2			
	889W-LA2ABE-5					
	889W-LA2ABE-10					

3-Cordsets

Note: 20 AWG PUR DIN valve cordsets may be ordered by replacing **BE** with **RD** (i.e., 889W-RZ2GRD-2).

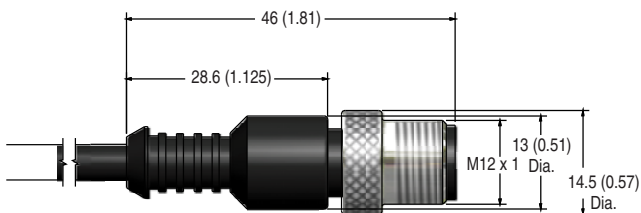
Patchcords

Pinout	Wire Size, AWG	Jacket Material	Wire Type	Voltage	Orientation	Cat. No.*
2-pole + dual ground	20	PVC	Standard	0...120V	N/A	889W-RZ2GBDD-2
				24V		889W-RZ2ABDD-2
			LED & MOV	120V		889W-LD2ABDD-2
						889W-LA2ABDD-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **1** (1 m), **5** (5 m), or **10** (10 m) for standard lengths.

Note: 20 AWG PUR DIN valve cordsets may be ordered by replacing **BD** with **RD** (i.e., 889V-LA2DRD-2).

M12 Connector End of Patchcord



Cordsets & Patchcords, DIN Valve Style

DIN Valve C (9.4 mm)



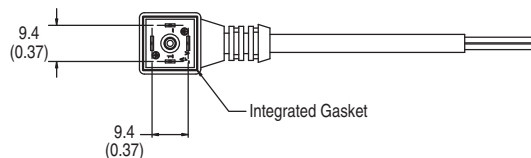
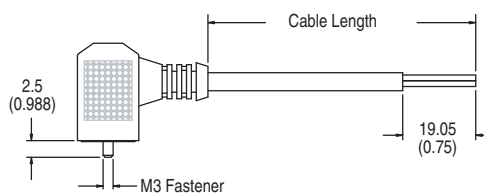
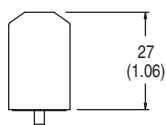
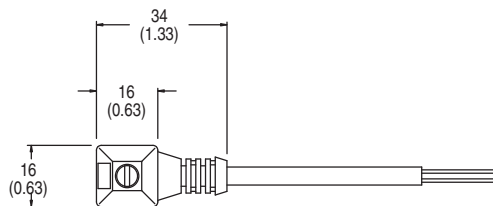
Valve C Cordset

Features

- Conforms to EN 175301-803/DIN 43650
- Subtle black PVC jacket offers good oil and chemical resistance
- Indicating amber LED option
- Available with surge protection circuitry
- 2-pole and dual ground configurations
- DIN to M12 option available

Approximate Dimensions


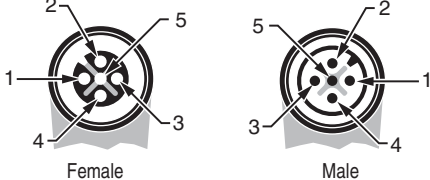
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Housing Material	Molded oil-resistant PUR (NonLED version: black, LED version: clear)
Gasket Material	Nitrile
Contact Material	Tin-plated copper
Mounting Screw	18-8 Stainless Steel
Cable Type	Oil-resistant PVC jacket, 20 AWG conductor, 300V, UL Recognized and CSA Certified
Bend Radius	10x diameter, min.
Cable Diameter [mm (in.)]	20 AWG, 4-conductor: 5.2 (0.205)
Electrical	
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	Straight Wired: 0...250V AC/DC, 6 A LED & Varistor Surge Suppression: 24V or 115V AC/DC, 6 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6
Temperature Rating [C (F)]	-25...+80° (-13...+176°)

Pinout

Face View Pinout	
2-Pin Dual Ground	5-Pin
	
1 Brown 2 Blue GND Yellow & Green	1 Brown 2 White 3 Blue 4 Black 5 Grey

Product Selection

Cordsets

Pinout	Color Code	Cable Type	Wiring	Voltage	Cat. No.	
2-pole + dual ground	Brown, Blue, Green/Yellow	20 AWG Black PVC	Straight Wired	0...250V AC/DC	889Z-RZ2DBD-2	
					889Z-RZ2DBD-5	
					889Z-RZ2DBD-10	
			LED & Varistor Surge Suppression	24V AC/DC	889Z-LD2DBD-2	
					889Z-LD2DBD-5	
					889Z-LD2DBD-10	
					115V AC/DC	889Z-LA2DBD-2
						889Z-LA2DBD-5
889Z-LA2DBD-10						

Note: 20 AWG PUR DIN valve cordsets may be ordered by replacing **BD** with **RD** (i.e., 889Z-RZ2DRD-2).

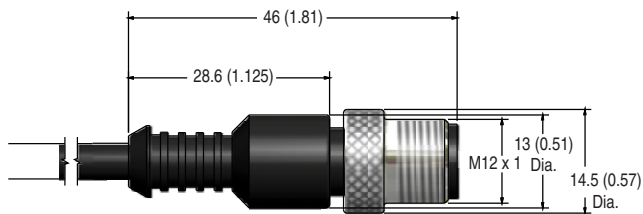
Patchcords

Pinout	Wire Size, AWG	Jacket Material	Wire Type	Voltage	Orientation	Cat. No.*
2-pole + dual ground	20	PVC	Standard	0...120V	N/A	889Z-RZ2DBDD-2
			LED & MOV	24V		889Z-LD2DBDD-2

* The **2** at the end of the cat. no. is for 2 m cable length. Replace the **2** with **1** (1 m), **5** (5 m), or **10** (10 m) for standard lengths.

Note: 20 AWG PUR DIN valve cordsets may be ordered by replacing **BD** with **RD** (i.e., 889V-LA2DRD-2).

M12 Connector End of Patchcord



3-Cordsets

Field Attachable, DIN Valve Style

DIN Valve A (18 mm)



Valve A

Specifications

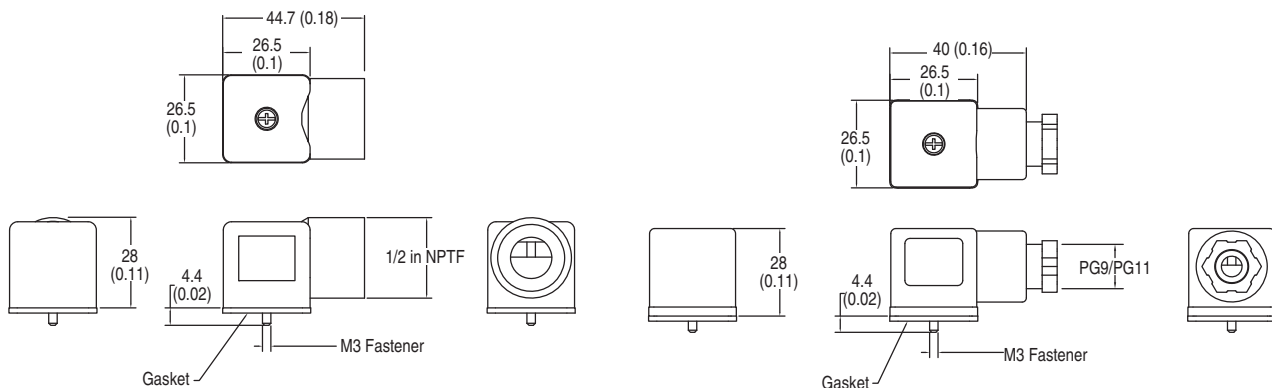
Mechanical	
Connector Shell Material	Polyamid Nylon 6
Gasket Material	Nitrile
Mounting Screw	Zinc-plated steel
No. of Main Contacts	2 + ground, 3 + ground
Cable Type	Connector accepts 14 AWG max.
Electrical	
Assembly Rating	Straight Wire: 0...250V, 10 A LED & Varistor surge suppression: 24V, 115V or 230V, 10 A
Environmental	
Enclosure Type Rating	IP65; NEMA 4
Operating Temperature [C (F)]	-25...+90° (-13...+194°)

Features

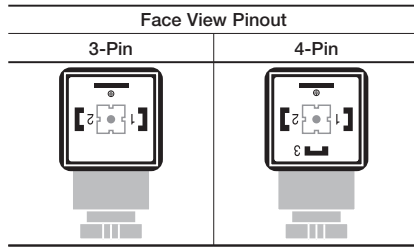
- Conforms to EN 175301-803/DIN 43650
- Field installable
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations
- Indicating red LED option
- Available with surge protection circuitry
- Face plate (ground direction) can be oriented in 90° increments

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Pinout



Note: The faceplate may be oriented in 90° increments.

Product Selection

Pinout	Wiring	Assembly Rating	Thread Size	Accepts Outer Cable Diameter [mm (in.)]	Cat. No.*	
2-pole + ground	Straight Wired	0...250V, 10 A	PG9	5.99...8.0 (0.236...0.315)	889V-RZ2GCF-T	
			PG11	8.0...9.9 (0.315...0.39)	889V-RZ2GFF-T	
			1/2 inch-NPTF	10.4 (0.41) max.	889V-RZ2GNF-T	
	LED & Varistor Surge Suppression	24V, 10 A	24V, 10 A	PG9	5.99...8.0 (0.236...0.315)	889V-LD2GCF-T
				PG11	8.0...9.9 (0.315...0.39)	889V-LD2GFF-T
				1/2 inch-NPTF	10.4 (0.41) max.	889V-LD2GNF-T
		115V, 10 A	115V, 10 A	PG9	5.99...8.0 (0.236...0.315)	889V-LA2GCF-T
				PG11	8.0...9.9 (0.315...0.39)	889V-LA2GFF-T
				1/2 inch-NPTF	10.4 (0.41) max.	889V-LA2GNF-T
		230V, 10 A	230V, 10 A	PG9	5.99...8.0 (0.236...0.315)	889V-LC2GCF-T
				PG11	8.0...9.9 (0.315...0.39)	889V-LC2GFF-T
				1/2 inch-NPTF	10.4 (0.41) max.	889V-LC2GNF-T
3-pole + ground	Straight Wired	0...250V, 10 A	PG9	5.99...8.0 (0.236...0.315)	889V-RZ3GCF-T	
			PG11	8.0...9.9 (0.315...0.39)	889V-RZ3GFF-T	
			1/2 inch-NPTF	10.4 (0.41) max.	889V-RZ3GNF-T	

* Each cat. no. is a single bag of 5 pieces.

3-Cordsets

Field Attachable, DIN Valve Style

DIN Valve B (11 mm) and BEU (10 mm)



Valve B & BEU

Specifications

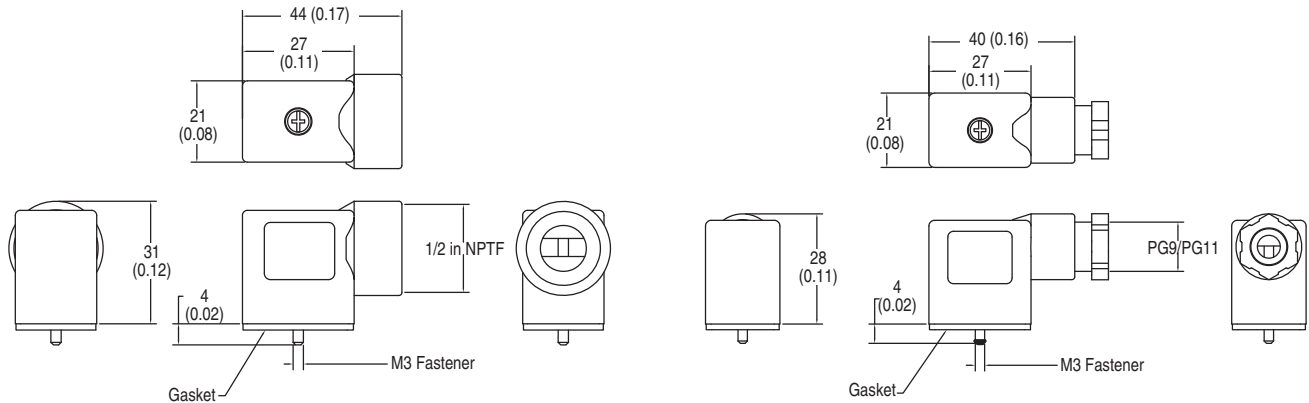
Mechanical	
Connector Shell Material	Polyamid Nylon 6
Gasket Material	Nitrile
Mounting Screw	Zinc-plated steel
No. of Main Contacts	2 + ground
Cable Type	Connector accepts 14 AWG max.
Electrical	
Assembly Rating	Straight Wire: 0...250V, 10 A LED & Varistor surge suppression: 24V, 115V or 230V, 10 A
Environmental	
Enclosure Type Rating	IP65; NEMA 4
Operating Temperature [C (F)]	-25...+90° (-13...+194°)

Features

- Conforms to EN 175301-803/DIN 43650
- Field installable
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations
- Indicating red LED option
- Available with surge protection circuitry
- Face plate (ground direction) can be oriented in 180° increments

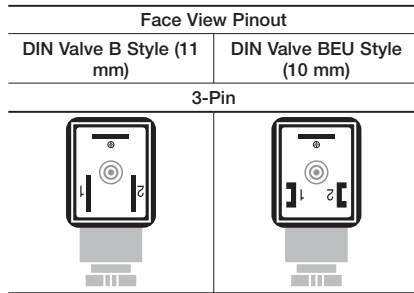
Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Cordsets & Field Attachables
Field Attachable, DIN Valve Style
 DIN Valve B (11 mm) and BEU (10 mm)

Pinout



Note: The faceplate may be oriented in 180° increments.

Product Selection

DIN Valve B Style (11 mm)

Pinout	Wiring	Assembly Rating	Thread Size	Accepts Outer Cable Diameter [mm (in.)]	Cat. No.*	
2-pole + ground	Straight Wired	0...250V	PG9	5.99...8.0 (0.236...0.315)	889W-RZ2GCF-T	
			1/2 inch NPTF	10.4 (0.41) max.	889W-RZ2GNF-T	
	LED & Varistor Surge Suppression	24V	PG9	5.99...8.0 (0.236...0.315)	889W-LD2GCF-T	
					115V	889W-LA2GCF-T
					230V	889W-LC2GCF-T

DIN Valve BEU Style (10 mm)

Pinout	Wiring	Assembly Rating	Thread Size	Accepts Outer Cable Diameter [mm (in.)]	Cat. No.*	
2-pole + ground	Straight Wired	0...250V	PG9	5.99...8.0 (0.236...0.315)	889Y-RZ2GCF-T	
					24V	889Y-LD2GCF-T
	LED & Varistor Surge Suppression	115V			889Y-LA2GCF-T	
					230V	889Y-LC2GCF-T

* Each cat. no. is a single bag of 5 pieces.

3-Cordsets

Field Attachable, DIN Valve Style

DIN Valve C (9.4 mm) and CEU (8 mm)



Valve C & CEU

Features

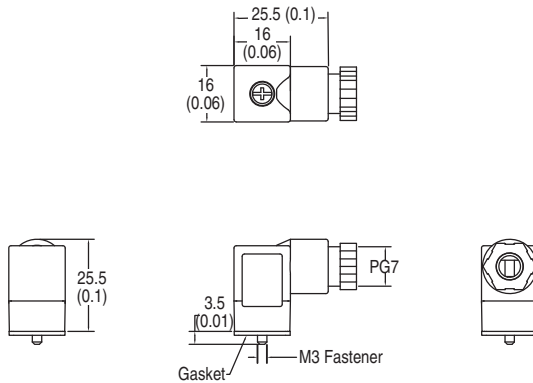
- Conforms to EN 175301-803/DIN 43650
- Field installable
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations
- Indicating red LED option
- Available with surge protection circuitry
- Face plate (ground direction) can be oriented in 90° increments

Specifications

Mechanical	
Connector Shell Material	Polyamid Nylon 6
Gasket Material	Nitrile
Mounting Screw	Zinc-plated steel
No. of Main Contacts	2 + ground, 3 + ground
Cable Type	Connector accepts 20 AWG max.
Electrical	
Assembly Rating	Straight Wire: 250V AC/300V DC, 6 A LED & Varistor surge suppression: 24V, 115V or 230V, 6 A
Environmental	
Enclosure Type Rating	IP65; NEMA 4
Operating Temperature [C (F)]	-25...+90° (-13...+194°)





Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Cordsets & Field Attachables
Field Attachable, DIN Valve Style
 DIN Valve C (9.4 mm) and CEU (8 mm)

Pinout

Face View Pinout			
DIN Valve C Style (9.4 mm)		DIN Valve CEU Style (8 mm)	
3-Pin	4-Pin	3-Pin	4-Pin
			

Note: The faceplate may be oriented in 90° increments.

Product Selection

DIN Valve C Style (9.4 mm)

Pinout	Wiring	Assembly Rating	Thread Size	Accepts Outer Cable Diameter [mm (in.)]	Cat. No.*
2-pole + ground	Straight Wired	250V AC/300V DC	PG7	3.98...5.99 (0.157...0.236)	889Z-RZ2GDE-T
	LED & Varistor Surge Suppression	24V			889Z-LD2GDE-T
		115V			889Z-LA2GDE-T
3-pole + ground	Straight Wired	250V AC/300V DC			889Z-RZ3GDE-T

DIN Valve CEU Style (8 mm)

Pinout	Wiring	Assembly Rating	Thread Size	Accepts Outer Cable Diameter [mm (in.)]	Cat. No.*
2-pole + ground	LED & Varistor Surge Suppression	250V AC/300V DC	PG7	3.98...5.99 (0.157...0.236)	889S-RZ2GDE-T
		24V			889S-LD2GDE-T
		115V			889S-LA2GDE-T
		230V			889S-LC2GDE-T
3-pole + ground	Straight Wired	250V AC/300V DC			889S-RZ3GDE-T

* Each cat. no. is a single bag of 5 pieces.

3-Cordsets

Insulation Displacement Connectors (IDC)



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.

Using field attachable connectors on preleaded sensors, cable spools, or single ended cordsets provides instant custom length cables that maintain the advantages of a fully connector based system. Insulation Displacement Connectors (IDC) terminate cables without stripping and connecting individual leads to screw terminals.

Field attachable insulation displacement connectors are available in DC Micro and Pico connectors. These parts are located in the DC Micro and Pico sections of the catalog.

Rockwell Automation offers the convenience of IDC connections in receptacle form for bulkhead or panel installation. This 4-wire zinc die-cast connector is ideal for terminating wires to enclosures with the flexibility of field customization.

Multiple cables can be terminated with the Allen-Bradley passive IDC distribution box. The ports each have a 3-wire termination and are available on an 8-port box. The 3-pole IDC insert (sold separately) which is needed to make the connection has a much lower profile than a connector on a standard distribution box. LED versions are available for use with PNP (sourcing) inputs.

Rockwell Automation is continually expanding its connection system offerings. If our standard catalog does not contain the item that you need, or you have a special application, please contact your local Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Styles

Receptacles.....3-156

3-Cordsets

Receptacles, Insulation Displacement Connectors (IDC)

4-Pin



4-Pin IDC Receptacle

Features

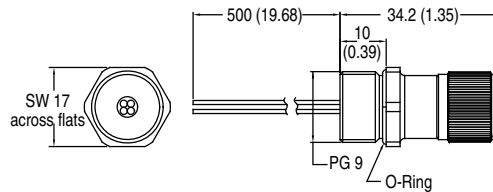
- Field installable with no hand tools needed
- 24...22 AWG conductors
- 4-pin configuration
- PG 9
- Viton® o-ring
- Allows easy modification of existing cable installations
- Insulation displacement technology for secure and reliable installation

Specifications

Mechanical	
Receptacle Shell Material	Nickel-plated brass
Coupling Nut Material	Nickel-plated brass
Connector Shell Material	Nickel-plated brass
Connector Insert Material	Black PUR
Contact Material	Gold over nickel-plated brass
IDC Installations, max.	10
Conductor OD [mm (in.)]	24...22 AWG, 1.6...2.0 (0.063...0.079)
Cable Diameter	1.2...1.6 (0.047...0.063)
Wire Insulation	Oil-resistant PVC, 22 AWG stranded copper, 300V, UL Recognized
Environmental	
Enclosure Type Rating	IP67, 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-20...+85° (-4...+185°)

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Product Selection

Receptacles

Description	Connector Body	Panel Mount Threads	Wire Color	Assembly Rating	Cat. No.
4 Pin Straight Receptacle	Brass with nickel-plating	PG 9	1 Brown 2 White 3 Blue 4 Black	24...22 AWG 32V 4 A	888H-T4DC3-0M5



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.

Many cables which can be ordered in cordset and patchcord form can also be ordered in cable spool form. When combined with field-attachable connectors, spools of raw cable provide enhanced flexibility while allowing for the quick and simple installation characteristic of a fully connector-based system while staying consistent with existing patchcords and cordsets already being used.

Rockwell Automation offers spools in a variety of PVC, PUR, and TPE cable types, including the following:

- Yellow, black, or blue PVC cable
- 22 AWG yellow PVC cable
- 22 AWG with braided shield
- Yellow PVC cable, 18 AWG
- Yellow PUR cable, 22 AWG
- Yellow TPE cable, 18 AWG

Available in 2- to 6-wire configurations in IEC or automotive color code, these cables can be used in a variety of applications.

Rockwell Automation is continually expanding its connection system offerings. If the standard catalog does not contain the item that you need, or you have a special application, please contact your local Rockwell Automation sales office or Allen-Bradley distributor for assistance.

Styles

PVC Cable Spools.....	3-158
PUR & TPE Cable Spools	3-159

Cordsets & Field Attachables

Cable Spools

22 and 18 AWG PVC



Specifications

Cable Type	Oil-resistant PVC jacket, PVC insulated conductors, 300V
Cable Rating	UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant
Operating Temperature [C (F)]	-20...+105 ° (-4...+221 °)

Features

- 3-, 4-, 5-, and 6-conductor AWM styles
- Braided shielded or unshielded versions
- Yellow, blue, or black PVC cable jacket
- 22 AWG or 18 AWG conductors
- IEC or Automotive color-coded conductors

Product Selection

Jacket Material	No. of Conductors	Color Code	Jacket Color	Wire Size, AWG [AWG]	Nominal Outer Diameter	Shielding	Cat. No.*	
PVC	2	Brown, Blue	Yellow	22	5.3 mm (0.21 in.)	None	889-C2AC-S50	
	3	Brown, Blue, Black	Yellow	22	5.3 mm (0.21 in.)	None	889-C3AC-S50	
		Green, Red w/Black stripe, Red w/White stripe	Yellow	22	6.7 mm (0.26 in.)	Braided	889-C3ECA-S50	
	4	Brown, White, Blue, Black	Yellow	22	5.3 mm (0.21 in.)	None	889-C4AC-S50	
			Black	22	5.3 mm (0.21 in.)	None	889-C4BC-S50	
			Blue	22	5.3 mm (0.21 in.)	None	889-C4LC-S50	
			Yellow	22	6.7 mm (0.26 in.)	Braided	889-C4EC-S50	
			Yellow	18	6.7 mm (0.26 in.)	None	889-C4AE-S50	
			Yellow	22	5.5 mm (0.22 in.)	Foil	889-C4FC-S50	
			Yellow	22	6.7 mm (0.26 in.)	Braided	889-C4ECA-S50	
	5	Green, Red w/Black stripe, Red w/White stripe, Red	Yellow	18	6.7 mm (0.26 in.)	None	889-C4AEA-S50	
			Brown, White, Blue, Black, Grey	Yellow	22	6.0 mm (0.24 in.)	None	889-C5AC-S50
				Black	22	6.0 mm (0.24 in.)	None	889-C5BC-S50
				Yellow	22	6.7 mm (0.26 in.)	Braided	889-C5EC-S50
			Yellow	22	6.7 mm (0.26 in.)	None	889-C5ECA-S50	
	6	Green, Red w/Black stripe, Red w/White stripe, Red, Red w/Yellow stripe	Yellow	22	6.7 mm (0.26 in.)	None	889-C5AEA-S50	
			Green, Red w/Black, Red w/White, Red, Red w/Yellow, Red w/Blue stripe	Yellow	22	6.7 mm (0.26 in.)	Braided	889-C6ECA-S50

* The 50 at the end of the cat. no. is for 50 m cable length. Replace the 50 with 100 (100 m) or 200 (200 m) for other standard cable lengths.



Specifications

Cable Type	Oil-resistant jacket, PVC insulated conductors, 300V
Cable Rating	PUR: UL AWM style 20866 VW-1 80C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant; TPE: UL AWM style 20327 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1, UV oil and water resistant
Operating Temperature [C (F)]	PUR: -20...+80° (-4...+176°); TPE: -20...+105° (-4...+221°)

Features

- 4- or 5-conductor AWM styles
- 22 AWG or 18 AWG conductors
- IEC color-coded conductors
- Flex-rated cable design tested to 8 million cycles
- Yellow cable jackets provide high degrees of oil and chemical resistance
- TPE jacket provides weld-slag resistance

Product Selection

Jacket Material	No. of Conductors	Color Code	Jacket Color	Wire Size, AWG	Nominal Outer Diameter	Shielding	Cat. No.
PUR	4	Brown, White, Blue, Black	Yellow	22	5.2 mm (0.21 in.)	None	* 889-C4UC-S50
	5	Brown, White, Blue, Black, Grey		22	5.2 mm (0.21 in.)		* 889-C5UC-S50
TPE	4	Brown, White, Blue, Black		18	7.0 mm (0.28 in.)		* 889-C4HJ-S50
TPE ToughLink™	4	Brown, White, Blue, Black		10	—		—

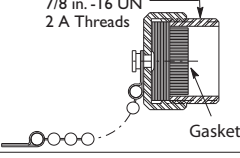
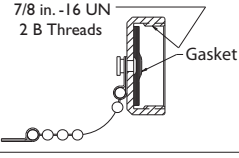
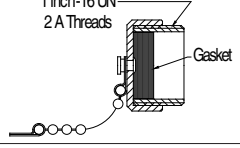
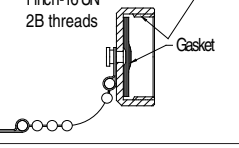
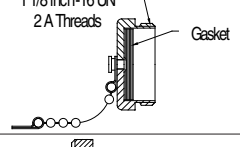
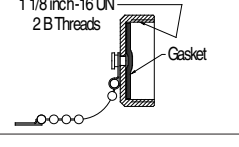
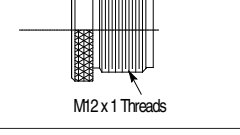
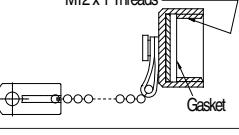
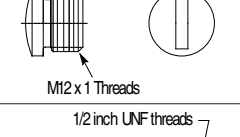
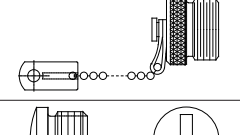
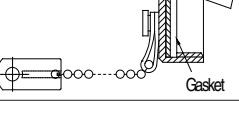
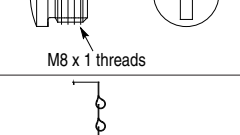
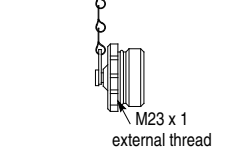
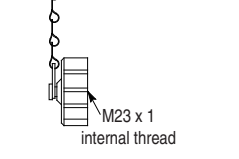
* The **50** at the end of the cat. no. is for 50 m cable length. Replace the **50** with **100** (100 m) or **200** (200 m) for other standard cable lengths.
 * Available in 25, 50, and 75 m cable lengths.

3-Cordsets

Sealing Caps



Mini and Micro Cap

Connector Style	Material	Thread Type	Dimensions [mm (in.)]	Cat. No.	Thread Type	Dimensions [mm (in.)]	Cat. No.
Mini Control Power (M22)	Aluminum grey, anodized	External, male	7/8 in. -16 UN 2 A Threads 	1485A-C1	Internal, female	7/8 in. -16 UN 2 B Threads 	889A-NCAP
Mini-Plus (7- and 8-pin)	Aluminum	External	1 inch-16 UN 2 A Threads 	889A-NM2CAP	Internal	1 inch-16 UN 2 B threads 	889A-N2CAP
Mini-Plus (9-, 10-, and 12-pin)	Aluminum	External	1 1/8 inch-16 UN 2 A Threads 	889A-NM3CAP	Internal	1 1/8 inch-16 UN 2 B Threads 	889A-N3CAP
DC Micro	Aluminum	External		1485A-C3	Internal		889A-DCAP
	Plastic			1485A-M12	—		—
AC Micro	Aluminum	External	1/2 inch UNF threads 	889A-RMCAP	Internal	1/2 inch UNF Threads 	889A-RCAP
Pico	Plastic	External		889A-PMCAP	—	—	—
M23	Nickel-plated brass	External		889A-MMCAP	Internal		889A-MCAP

3-Cordsets

Accessories

Coupling Adaptors/Mounting Accessories

Coupling Adaptors



Connector Style	Material	Approximate Dimensions [mm (in.)]	Cat. No.
Mini	Aluminum		889A-NADPT
Mini-Plus (7- and 8-pin)			889A-N2ADPT
Mini-Plus (9-, 10-, and 12-pin)			889A-N3ADPT

Mounting Accessories

Description	Cat. No.
Mounting nuts for 1/2 inch-14 NPT threaded receptacles are available in bags of 10 pieces	889A-U1NUT-10
Flat, sealing washers for 1/2 inch-14 NPT threaded receptacles are available in bags of 10 pieces	889A-U1FSL-10