Cordsets & Field Attachables

Pico Quick Disconnect

Quick Selection Guide 3-2 Selection Criteria 3-3 Mini Quick Disconnect Introduction Introduction 3-7 Cordsets & Patchcords 3-10 T-Ports 3-22 Receptacles 3-24 Terminal Chambers 3-26 Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction Corfigurator 3-30 Corfigurator Secure 3-30 Cordsets & Patchcords 3-32 Receptacles 3-36 DC Micro Quick Disconnect Introduction Introduction 3-41 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-60 Y-Cables 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-78 AC Micro Quick Disconnect Introduction Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92	Introduction
Mini Quick Disconnect Introduction 3-7 Corfigurator 3-8 Cordsets & Patchcords 3-10 T-Ports 3-22 Receptacles 3-24 Terminal Chambers 3-26 Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction Introduction 3-29 Corfigurator 3-3 Cordsets & Patchcords 3-36 DC Micro Quick Disconnect Introduction Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-66 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-78 AC Micro Quick Disconnect Introduction Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles	Quick Selection Guide3-2
Introduction 3-7 Configurator 3-8 Cordsets & Patchcords 3-10 T-Ports 3-22 Receptacles 3-24 Terminal Chambers 3-26 Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction Introduction 3-29 Configurator 3-30 Cordsets & Patchcords 3-36 DC Micro Quick Disconnect Introduction Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96	Selection Criteria3-3
Introduction 3-7 Configurator 3-8 Cordsets & Patchcords 3-10 T-Ports 3-22 Receptacles 3-24 Terminal Chambers 3-26 Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction Introduction 3-29 Configurator 3-30 Cordsets & Patchcords 3-36 DC Micro Quick Disconnect Introduction Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96	
Configurator 3-8 Cordsets & Patchcords 3-10 T-Ports 3-22 Receptacles 3-24 Terminal Chambers 3-26 Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction 3-29 Configurator 3-30 Cordsets & Patchcords 3-36 DC Micro Quick Disconnect Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-98 Each Micro Quick Disconnect Introduction Introduction 3-99 Cordsets 3-100 </td <td>Mini Quick Disconnect</td>	Mini Quick Disconnect
Cordsets & Patchcords 3-10 T-Ports 3-22 Receptacles 3-24 Terminal Chambers 3-26 Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction Introduction 3-29 Corfigurator 3-30 Cordsets & Patchcords 3-32 Receptacles 3-36 DC Micro Quick Disconnect Introduction Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 <t< td=""><td>Introduction3-7</td></t<>	Introduction3-7
T-Ports. 3-22 Receptacles 3-24 Terminal Chambers 3-26 Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction Introduction 3-30 Cordsets & Patchcords 3-32 Receptacles 3-36 DC Micro Quick Disconnect Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-66 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-95 EAC Micro Quick Disconnect Introduction Introduction 3-99 Configurator 3-99 Configurator 3-100 Cordsets 3-101 <td>Configurator3-8</td>	Configurator3-8
Receptacles 3-24 Terminal Chambers 3-26 Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction Introduction 3-30 Cordsets & Patchcords 3-32 Receptacles 3-36 DC Micro Quick Disconnect Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-60 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-99 Configurator 3-100 Cordsets 3-101 <td>Cordsets & Patchcords3-10</td>	Cordsets & Patchcords3-10
Terminal Chambers 3-26 Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction Introduction 3-30 Cordsets & Patchcords 3-32 Receptacles 3-36 DC Micro Quick Disconnect Introduction Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction Introduction 3-99 Configurator 3-90 Configurator 3-100 Cordsets 3-101	
Bulkhead Pass-Thru 3-28 Mini Plus Quick Disconnect Introduction 3-29 Configurator 3-30 Cordsets & Patchcords 3-32 Receptacles 3-36 Beceptacles 3-36 DC Micro Quick Disconnect Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-60 Y-Cables 3-66 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Teild Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-100 Cordsets 3-101 3-101 3-101 3-101 3-101 3-101 3-101 3-101 3-101 3-101 3-101 3-101 3-101 3-101 3-101	Receptacles3-24
Mini Plus Quick Disconnect Introduction 3-29 Configurator 3-30 Cordsets & Patchcords 3-32 Receptacles 3-36 DC Micro Quick Disconnect Introduction Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-66 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Configurator 3-100 Cordsets 3-101	Terminal Chambers
Introduction	Bulkhead Pass-Thru3-28
Configurator 3-30 Cordsets & Patchcords 3-32 Receptacles 3-36 DC Micro Quick Disconnect Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-66 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-95 EAC Micro Quick Disconnect Introduction Introduction 3-99 Configurator 3-100 Cordsets 3-101	Mini Plus Quick Disconnect
Configurator 3-30 Cordsets & Patchcords 3-32 Receptacles 3-36 DC Micro Quick Disconnect Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-66 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-95 EAC Micro Quick Disconnect Introduction Introduction 3-99 Configurator 3-100 Cordsets 3-101	Introduction 3-29
Cordsets & Patchcords 3-32 Receptacles 3-36 DC Micro Quick Disconnect Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-96 EAC Micro Quick Disconnect Introduction 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	
Receptacles 3-36 DC Micro Quick Disconnect Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction Introduction 3-99 Configurator 3-90 Configurator 3-100 Cordsets 3-101	S .
DC Micro Quick Disconnect Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction Introduction 3-99 Configurator 3-90 Configurator 3-90 Configurator 3-100 Cordsets 3-101	
Introduction 3-41 Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	
Configurator 3-42 Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	DC Micro Quick Disconnect
Cordsets & Patchcords 3-44 V-Cables 3-60 Y-Cables 3-68 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	Introduction3-41
V-Cables 3-60 Y-Cables 3-66 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	Configurator3-42
Y-Cables 3-66 Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	Cordsets & Patchcords3-44
Splitters 3-68 Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	V-Cables3-60
Receptacles 3-70 Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction Introduction 3-77 Configurator 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	Y-Cables3-66
Terminal Chambers 3-72 Field Attachable 3-74 Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction Introduction 3-77 Configurator 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	Splitters3-68
Field Attachable .3-74 Bulkhead Pass-Thru .3-76 AC Micro Quick Disconnect Introduction .3-77 Configurator .3-80 Splitters .3-92 Receptacles .3-94 Terminal Chambers .3-96 EAC Micro Quick Disconnect Introduction .3-99 Configurator .3-100 Cordsets .3-101	Receptacles3-70
Bulkhead Pass-Thru 3-76 AC Micro Quick Disconnect Introduction 3-77 Configurator 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	
AC Micro Quick Disconnect Introduction	
Introduction 3-77 Configurator 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	Bulkhead Pass-Thru3-76
Configurator 3-78 Cordsets & Patchcords 3-80 Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	AC Micro Quick Disconnect
Cordsets & Patchcords. 3-80 Splitters. 3-92 Receptacles. 3-94 Terminal Chambers. 3-96 EAC Micro Quick Disconnect Introduction. 3-99 Configurator 3-100 Cordsets 3-101	Introduction
Splitters 3-92 Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	Configurator3-78
Receptacles 3-94 Terminal Chambers 3-96 EAC Micro Quick Disconnect Introduction 3-99 Configurator 3-100 Cordsets 3-101	Cordsets & Patchcords3-80
Terminal Chambers	Splitters3-92
EAC Micro Quick Disconnect Introduction	•
Introduction 3-99 Configurator 3-100 Cordsets 3-101	Terminal Chambers3-96
Introduction 3-99 Configurator 3-100 Cordsets 3-101	FAC Micro Quick Disconnect
Configurator 3-100 Cordsets 3-101	
Cordsets	
	S .
	Receptacles

Introduction3-103
Configurator3-104
Cordsets & Patchcords3-106
V-Cables3-118
Splitters3-120
Receptacles3-122
Terminal Chambers3-124
Field Attachable
M23 Quick Disconnect
Introduction3-129
Configurator3-130
Cordsets & Patchcords3-132
Receptacles3-134
Field Attachable3-136
DIN Valve
Introduction3-139
Competitive Naming Convention3-140
Configurator3-141
Cordsets & Patchcords3-142
Field Attachable
Insulation Displacement Connectors
Introduction3-155
Receptacles3-156
Cable Spools
Introduction3-157
PVC3-158
PUR & TPE3-159
Accessories
Sealing Caps3-161
Coupling Adaptors3-162
Mounting Accessories3-162
Violating / 10000001100
Cat. No. Index12-1

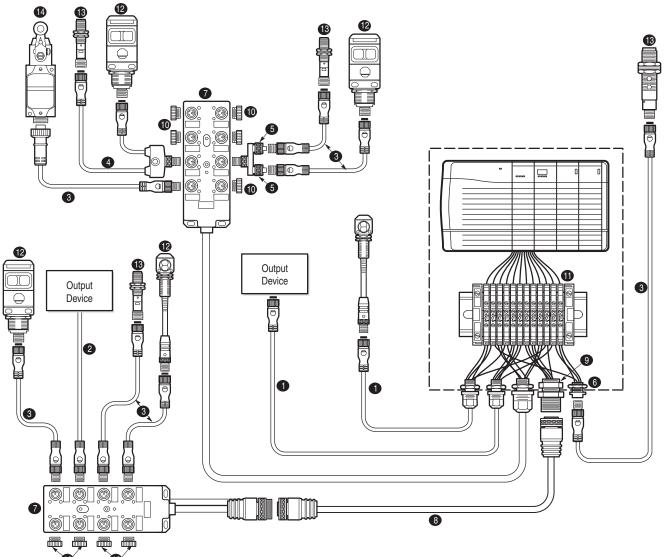


Quick Selection Guide

Specifications	Female Cordsets	Male Cordsets	Patch	ncords	Splitters		V-Cables	
Description	Cable with integral female connector on one end	Cable with integral male connector on one end	Cable with integral connector on each end		Cable with single male connector attached to two female connectors		Cable with single male connector attached to two female connectors	
Features	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	Straight or right angle Multiple standard lengths Male connector provides interface to distribution boxes or DC micro ArmorBlock DeviceNet I/O	and distrib	nection eld devices ution boxes	Straight or right ar connectors Multiple standard lengthse Direct connection between field devi and distribution be or Allen-Bradley ArmorBlock Device I/O	ces	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	Mini	• Mini	Mini-PlusDC MicroDC Micro tAC MicroEAC MicroPico	ii 3-58 3-32 3-44 o Pico 3-54 3-101 3-106 3-132	DC Micro Splitter AC Micro Splitter DC Micro to Pico Splitter	3-92	VCables3-60	
Successifications.	Proportions	Rulkhard Pa	C. Thru	Tomic	and Chambers		Accessories	
Specifications	Receptacles	Bulkhead Pas	ss-ınru lermir		nal Chambers		Accessories Sealing caps, coupling	
Description	Panel mount connector with flying lead Panel mount female		nnector, male to Field instal		allable connectors ada sys		laptors, and other connection stems accessories	
Features	Male and female configura 1/2 in. NPT, 1/4 in. NPT or threads Threaded metal housing	M14 • 1/2 in. NPT, 1/4 in threads	1 • 1/2 in. NPT, 1/4 in. NPT or M14		Screw, solder, or insulation displacement connector styles Straight or right angle Multiple sizes for varying cable jacket diameters		 Rugged durable construction Versions to interface with male or female connectors Multiple sizes for various connector types 	
Available Models	Mini Receptacle DC Micro AC Micro EAC Micro ico ico	.3-70 .3-94 3-102 3-122 • Mini Bulkhead Pas DC Micro Bulkhea thru	Mini Bulkhead Pass-• thru 3-28 DC Micro Bulkhead Pass-• AC M AC M			• Cou	ling caps	



Typical Configuration (DC Micro Connectors Based System)



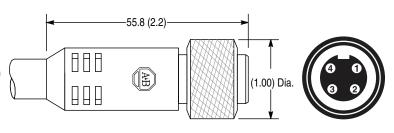
1.	DC	Micro	Cordset	3-44
2.	DC	Micro	Male Cordset	3-44
3.	DC	Micro	Male Patchcord	3-44
4.	DC	Micro	V-Cable	3-60
5.	DC	Micro	Splitter	3-68
6.	DC	Micro	Receptacle	3-70

4-10
3-32
3-36
3-161

11. Terminal Blocks	Controls" catalog
12. Photoelectric Sensors	See "Sensors"
13. Inductive Sensor	catalog

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



AC Micro QD

Dual keyway

• 3-pin, 4-pin, 5-pin or 6-pin

• 1/2 in.-20 thread (English)

• Illuminated and non-illuminated

• 2 m, 5 m, and 10 m lengths (standard)

Straight and right angle

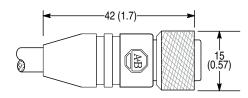
DC Micro QD

• 4-pin or 5-pin

Which Connector to Use?

- 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

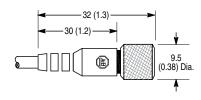






Pico QD

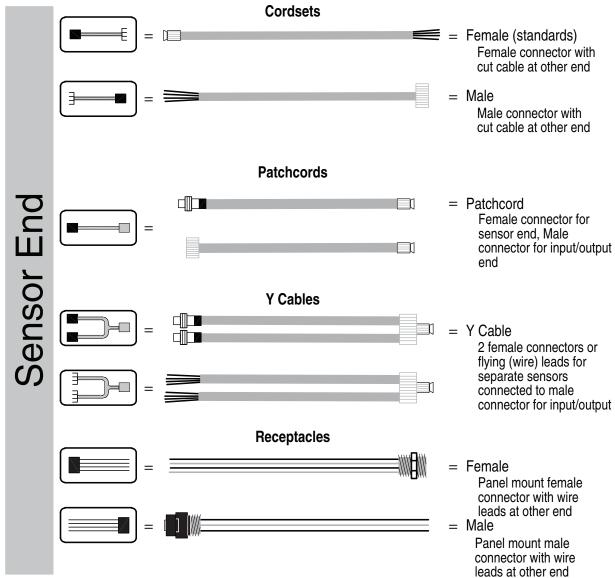
- 3-pin or 4-pin
- Straight and right angle
- Illuminated and non-illuminated
- Snap-on or thread-on
- 2 m, 5 m, and 10 m lengths (standard)



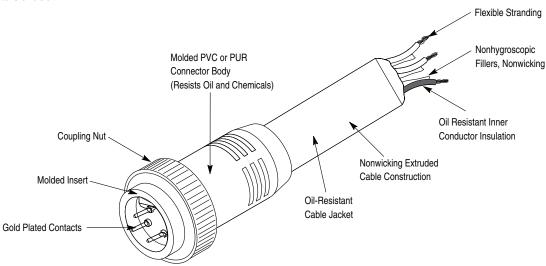


Company Name	Naming Convention						
Rockwell Automation	Pico	DC Micro	AC Micro	EAC Micro	Mini	Mini-Plus	M23
Woodhead/ Brad Harrison®	Nano-Change®	Micro-Change® Single Keyway	Micro-Change® Dual Keyway	Micro-Change® Reverse Keyway	Mini-Change® A- Size	Mini-Change® B- Size & C-Size	M23
Turck	Picofast™	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 in20UN	M12 x 1	7/8 in16UN	1 in16UN 1 1/8 in16UN	M23

Cable Naming Conventions



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

Configurator	3-8
Cordsets & Patchcords	3-10
T-Ports	3-22
Receptacles	3-24
Terminal Chambers	3-26
Bulkhead Pass-thru	3-28



Cordset

889N S - F b 3 A F C - 12F

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)			
К	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				
26	Number of Pins				

d

Jacket Material				
Code	Description			
Α	PVC Cable			
G	PVC Cable, Grey, Unshielded			
Н	ToughLink™ Cable			
W	ToughWeld™ Cable			

е

Wire Gauge		
Code	Description	
С	22 AWG (9) 22 AWG/(3) 18 AWG	
Е	18 AWG	
F	16 AWG	

f

Color Code	
Code	Description
Blank	IEC Color Code
Α	Automotive Color Code
С	U.S. Industry Standard Color Code

g

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

Patchcord

 $889N \frac{S}{a} - \frac{F}{b} \frac{4}{c} \frac{A}{d} \frac{F}{e} \frac{N}{f} \frac{U}{g} - \frac{12F}{h}$

а

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
26	No. of Pins

d

	Jacket Material	
Code	Description	
Α	PVC Cable	
G	PVC Cable, Grey, Unshielded	
Н	ToughLink™ Cable	
W	ToughWeld™ Cable	

е

	Wire Gauge	
Code	Description	
С	22 AWG (9) 22 AWG/(3) 18 AWG	
Е	18 AWG	
F	16 AWG	

f

Male End Connector Style	
Code	Description
N	Mini QD

a

Male End Connector Type	
Code	Description
Е	Right Angle Male (External Threads)
М	Straight Male (External Threads)
U	Straight Male (Internal Threads)
\/	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.

s-Cordsets

Receptacles

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

а

Connector Type	
Code	Description
F	Straight Female (External Threads)
R	Right Angle Female (External Threads)
М	Straight Male (External Threads)
Е	Right Angle Male (External Threads)

b

No. of Pins					
Code Description					
26	No. of Pins				

C

Wire Type					
Code Description					
Α	PVC				

d

Wire Gauge					
Code Description					
Е	18 AWG				
F	16 AWG				

е

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)				



Features

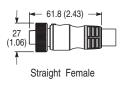
- Heavy duty STOOW-A 16 AWG cable
- PVC jacket offers good oil and chemical resistance
- 2-, 3-, 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

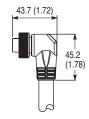
Specifications

UL Recognized and CSA Certified
Epoxy-coated zinc
Molded oil-resistant TPE
Gold-plated palladium/nickel
Oil-resistant yellow PVC jacket, 16 AWG stranded copper, 600V; UL Recognized and CSA Certified, STOOW-A
10x diameter
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)
UL STOOW VW-1 105C 600V, CSA ST 105C 600V FT2, UV oil and water resistant
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
NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown, IP69K

Approximate Dimensions

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

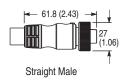




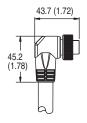
Right Angle Female



Example of Cordset



Temperature Rating [C (F)] -20...+105° (-4...+221°)



Right Angle Male



Example of Patchcord

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

		Face View Pinout									
	2-Pin		3-Pin		4-1	4-Pin		5-Pin		6-Pin	
Color	0	(i)	(o o)	0 0	(0 0) (0 0)	(o o o	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(6 6) (9 0)	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
Code	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	
A (US)		1 White 1 Green 2 Black 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)	_		2 Red/l	reen Black Tr White Tr	1 Red/Black Tr 2 Red/White Tr	3 Red 4 Green	2 3 G 4 Red/	White Tr Red Green Yellow Tr 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	

Product Selection

Cordsets

	Assembly			Cat.	No.*				
No. of Pins	Rating	Color Code	Straight Female	Right Angle Female	Straight Male				
2-Pin	600V, 13 A	A	889N-F2AFC-6F	889N-R2AFC-6F	889N-U2AFC-6F	Γ			
3-Pin	600V. 13 A	А	889N-F3AFC-6F	889N-R3AFC-6F	889N-U3AFC-6F				
3-FIII	000V, 13 A	_				г			

No. of Pins	Rating	Color Code	Straight Female	Right Angle Female	Straight Male	Right Angle Male
2-Pin	600V, 13 A	Α	889N-F2AFC-6F	889N-R2AFC-6F	889N-U2AFC-6F	889N-V2AFC-6F
3-Pin	600V. 13 A	А	889N-F3AFC-6F	889N-R3AFC-6F	889N-U3AFC-6F	889N-V3AFC-6F
3-7111	600V, 13 A	В	889N-F3AFA-6F	889N-R3AFA-6F	889N-U3AFA-6F	889N-V3AFA-6F
	600V, 10 A	Α	889N-F4AFC-6F	889N-R4AFC-6F	889N-U4AFC-6F	889N-V4AFC-6F
4-Pin		В	889N-F4AFA-6F	889N-R4AFA-6F	889N-U4AFA-6F	889N-V4AFA-6F
		А	889N-F4AF-6F	889N-R4AF-6F	889N-U4AF-6F	889N-V4AF-6F
		А	889N-F5AFC-6F	889N-R5AFC-6F	889N-U5AFC-6F	889N-V5AFC-6F
5-Pin	600V, 8 A	В	889N-F5AFA-6F	889N-R5AFA-6F	889N-U5AFA-6F	889N-V5AFA-6F
		С	889N-F5AF-6F	889N-R5AF-6F	889N-U5AF-6F	889N-V5AF-6F
6-Pin	600V, 8 A	С	889N-F6AFC-6F	889N-R6AFC-6F	889N-U6AFC-6F	889N-V6AFC-6F
0-FIII	000 v, 8 A	Α	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	
. atomoorao	

		Cat. No.∜				
No. of Pins	Assembly Rating	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.

Cordsets & Patchcords, Mini Style

18 AWG, PVC



4-Pin Straight Mini Cordset

Features

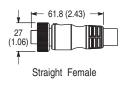
- General purpose 18 AWG cable
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- 2-, 3-, 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

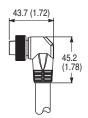
Specifications

•	
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

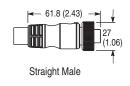
Approximate Dimensions

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

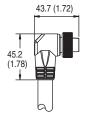




Right Angle Female



Temperature Rating [C (F)] -20...+105° (-4...+221°)



Right Angle Male



Example of Patchcord



Example of Cordset

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

					Face Vie	w Pinout				
	2-Pin		3-1	Pin	4-1	Pin	5-Pin		6-	Pin
Color	0	(i)	(o o)	(i) (i) (i)	(0 0) (0 0)	(o o o	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0
Code	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
A (US)	1 Wh 2 Bla		2 B	reen lack /hite	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	2 3 G 4 Red/	White Tr Red Green Yellow Tr '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		
----------	--	--

	Assembly		Cat. No.∗					
No. of Pins	Rating	Color Code	Straight Female	Right Angle Female	Straight Male	Right Angle Male		
2-Pin		A	889N-F2AEC-6F	889N-R2AEC-6F	889N-U2AEC-6F	889N-V2AEC-6F		
3-Pin	300V, 10 A	А	889N-F3AEC-6F	889N-R3AEC-6F	889N-U3AEC-6F	889N-V3AEC-6F		
3-PIII		В	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		
4-Pin	300V, 7 A	В	889N-F4AEA-6F	889N-R4AEA-6F	889N-U4AEA-6F	889N-V4AEA-6F		
		С	889N-F4AE-6F	889N-R4AE-6F	889N-U4AE-6F	889N-V4AE-6F		
		A	889N-F5AEC-6F	889N-R5AEC-6F	889N-U5AEC-6F	889N-V5AEC-6F		
5-Pin	0001/ 5 0 4	В	889N-F5AEA-6F	889N-R5AEA-6F	889N-U5AEA-6F	889N-V5AEA-6F		
	300V, 5.6 A	С	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		
------------	--	--

		Cat. No.®								
No. of Pins	Assembly Rating	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	300V, 10 A	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	2001/ 5.6.4	889N-F5AENU-6F	889N-F5AENV-6F	889N-R5AENU-6F	889N-R5AENV-6F					
6-Pin	300V, 5.6 A	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.

Cordsets & Patchcords, Mini Style

16 AWG, ToughLink™ and ToughWeld™



4-Pin Straight Mini Cordset

Features

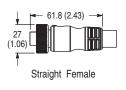
- Heavy duty 16 AWG cable
- Highly visible yellow ToughLink jacket offers excellent oil and chemical resistance
- ToughWeld jacket offers good oil and chemical resistance and excellent resistance to weld slag
- 3-, 4-, and 5-pin configurations
- Ratcheting coupling nut for vibration resistance

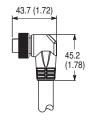
Specifications

•	
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°)

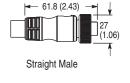
Approximate Dimensions

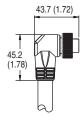
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



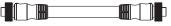


Right Angle Female





Right Angle Male



Example of Patchcord

Example of Cordset

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

889N-U4WFC-6F

889N-U5WFC-6F

889N-V4WFC-6F

889N-V5WFC-6F

Pinout and Color Code

	Face View Pinout							
	3-	Pin	4-1	Pin	5-I	Pin		
Color	000	0 0	(0 0) (0 0)	0 0	6 0	(0° 6) (0° 6) (0° 6)		
Code	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		

Product Selection

4-Pin

5-Pin

ToughWeld

(CPE)

600V 10 A

600V 8 A

Cordsets								
		Assembly		Cat. No.∗				
No. of Pins	Jacket Material	Rating	Color Code	Straight Female	Right Angle Female	Straight Male	Right Angle Male	
3-Pin		600V 13 A		889N-F3HFC-6F	889N-R3HFC-6F	889N-U3HFC-6F	889N-V3HFC-6F	
4-Pin	ToughLink (TPE)	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		600V 13 A	A	889N-F3WFC-6F	889N-R3WFC-6F	889N-U3WFC-6F	889N-V3WFC-6F	

889N-F4WFC-6F

889N-F5WFC-6F

889N-R4WFC-6F

889N-R5WFC-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 [] [] [] [] [] [] [] [] [] [
				Cat. No.∜					
No. of Pins	Jacket Material	Assembly Rating	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male			
3-Pin		600V 13 A	889N-F3HFNU-6F	889N-F3HFNV-6F	889N-R3HFNU-6F	889N-R3HFNV-6F			
4-Pin	ToughLink (TPE)	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		600V 13 A	889N-F3WFNU-6F	889N-F3WFNV-6F	889N-R3WFNU-6F	889N-R3WFNV-6F			
4-Pin	ToughWeld (CPE)	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.

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

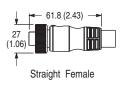
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil-resistant TPE
Contact Material	Gold-plated palladium/nickel
Cable Type	Oil-resistant yellow TPE or CPE jacket, 18 AWG stranded copper, 300V; UL Recognized and CSA Certified
Bend 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	

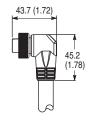
Enclosure Type Rating NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown, IP69K

Temperature Rating [C (F)] -50...+105° (-58...+221°)

Approximate Dimensions

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

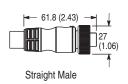


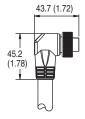


Right Angle Female



Example of Cordset





Right Angle Male



Example of Patchcord

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

	Face View Pinout						
	3-	Pin	4-F	Pin	5-	5-Pin	
Color	000	(i)	0 0	(0 0) (0 0)	000		
Code	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							
		Assembly		Cat. No.∗			
No. of Pins	Jacket Material	Rating	Color Code	Straight Female	Right Angle Female	Straight Male	Right Angle Male
3-Pin		300V, 10 A		889N-F3HJA-6F	889N-R3HJA-6F	889N-U3HJA-6F	889N-V3HJA-6F
4-Pin	TPE	300V, 7 A	В	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		300V, 10 A		889N-F3WEC-6F	889N-R3WEC-6F	889N-U3WEC-6F	889N-V3WEC-6F
4-Pin	ToughWeld (CPE)	300V, 7 A	A	889N-F4WEC-6F	889N-R4WEC-6F	889N-U4WEC-6F	889N-V4WEC-6F
5-Pin	(01 L)	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							
				Cat. No.₩			
No. of Pins	Jacket Material	Assembly Rating	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male	
3-Pin		300V, 10 A	889N-F3HJNU-6F	889N-F3HJNV-6F	889N-R3HJNU-6F	889N-R3HJNV-6F	
4-Pin	TPE	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		300V, 10 A	889N-F3WENU-6F	889N-F3WENV-6F	889N-R3WENU-6F	889N-R3WENV-6F	
4-Pin	ToughWeld (CPE)	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.

 $\textbf{Note} : \textbf{Stainless steel connector versions are available by adding and \textbf{S} to the cat. no., e.g., 889 N\textbf{S}-F3 HFC-6F. \\$



4-Pin Straight Mini Cordset

Features

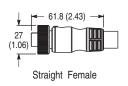
- Heavy duty power limited tray cable (PLTC) 18 AWG cable
- PVC jacket offers good oil and chemical resistance
- 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

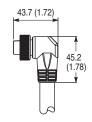
Specifications

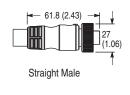
· ·	
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil resistant TPE
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant grey PVC jacket, 18 AWG conductors, 300V, UL Listed and CSA Certified
Bend Radius	10x 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°)

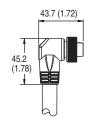
Approximate Dimensions

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









Right Angle Male

Right Angle Female



Example of Cordset



Example of Patchcord

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

889N-U6GEC-6F

889N-V6GEC-6F

Pinout and Color Code

			Face Vie	ew Pinout			
	4-	Pin	5-	Pin	6-1	6-Pin	
Color	0 0		6 0		6 0	0 0	
Code	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

6-pin₩

Cordsets	Cordsets •						
			Cat. No.*‡				
	Cable Diameter				Straight Male w/Internal	Right Angle Male	
No. of Pins	[mm (in.)]	Color Code	Straight Female	Right Angle Female	Threads	w/Internal Threads	
2-pin	6.0 (0.235)		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)	В	889N-F4GEC-6F	889N-R4GEC-6F	889N-U4GEC-6F	889N-V4GEC-6F	
E nin∜k	7.6 (0.3)		990N ESCEC SE	990N DECEC SE	990N LISCEC SE	990NI VECEC SE	

889N-R6GEC-6F

- 889N-F6GEC-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.

8.1 (0.32)

Patchcords	Patchcords							
		Cat. No.∜						
No. of Pins	Cable Diameter [mm (in.)]	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.

Cordsets & Patchcords, Mini Style

LED or Coil Cables, PVC

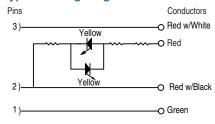


3-Pin Illuminated Mini Cordset

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

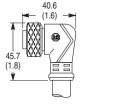


Specifications

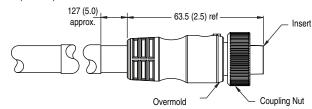
UL Recognized and CSA Certified
Epoxy-coated zinc
Molded oil-resistant PUR
Gold-plated palladium/nickel
Oil-resistant yellow PVC jacket, 18 AWG stranded copper, 300V; UL Recognized and CSA Certified
10x diameter
3/c = 7.4 (0.29) 4/c = 7.1 (0.28)
LED models: UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant Coiled Cable: 300V, UL style 20197, CSA AWM 1/11 A/B
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
NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown, IP69K
-20+105° (-4+221°)

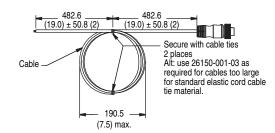
Approximate Dimensions

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



Right Angle Female







	Face View Pinout				
	3-Pin 4-Pin				
	(o o)				
Color Code	Female	Fema	ale		
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





			Cat. No.*		
No. of Pins	Jacket Material	Wire Rating	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	

LED Patchcords

No. o	f Pins			Cat. No.*			
Female	Male	Jacket Material	Wire Rating	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.

Coiled Cordsets

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



Tap-Style Wiring

Features

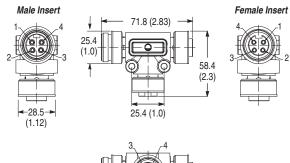
- Tap style wiring
- TPE body offers good oil and chemical resistance
- Ratcheting coupling nuts for vibration resistance

Specifications

opoomounono	
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.

Face View Pinout								
3-1	Pin	4-	Pin	5-Pin				
0 0	0 0	0 0	(0° 0) (0° 0)	000				
Female	Male	Female	Male	Female	Male			

Product Selection



No. of Pins	Wiring Diagram	Assembly Rating	Cat. No.
3-Pin	$\begin{array}{c c} 1 & & & 1 \\ 2 & & & & 2 \\ 3 & & & & 3 \end{array}$		898N-33PB-N4KF
4-Pin	1 2 3 4 1 2 3 4	300V 8 A	898N-43PB-N4KF
5-Pin	1 2 2 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		1485P-P1N5-MN5KF

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



16 & 18 AWG, 1/2 in. NPT Mount





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

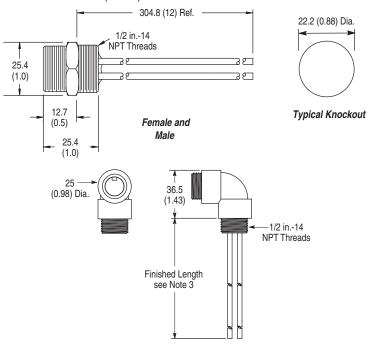
Specifications

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.



		Face View Pinout									
	2-Pin		3-Pin		4-1	Pin	5-Pin		6-Pin		
Color		(i)	(o o o	(0) (0)	(0 0) (0 0)	(° ° °)	(0° 0) (0° 0) (0° 0)	(0 0 (0 0)	(0 0 0 0 0 0	000	
Code	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	
A (US)		1 White 1 Green 2 Black 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	2 3 G 4 Red/	White Tr Red Green Yellow Tr '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



			Cat. No.*				
No. of Pins	Assembly Rating	Color Code	Thread Size	Straight Female External Threads	Right Angle Female External Threads	Straight Male External Threads	Right Angle Male External Threads
2-Pin		Α		888N-F2AF1-1F	888N-R2AF1-1F	888N-M2AF1-1F	888N-E2AF1-1F
3-Pin	600V AC/DC, 13 A	Α		888N-F3AF1-1F	888N-R3AF1-1F	888N-M3AF1-1F	888N-E3AF1-1F
3-7111		В		888N-F3AFA1-1F	888N-R3AFA1-1F	888N-M3AFA1-1F	888N-E3AFA1-1F
	600V AC/DC 10 A	Α		888N-F4AF1-1F	888N-R4AF1-1F	888N-M4AF1-1F	888N-E4AF1-1F
4-Pin	600V AC/DC, 10 A	В	1/0 in all 14 NDT	888N-F4AFA1-1F	888N-R4AFA1-1F	888N-M4AFA1-1F	888N-E4AFA1-1F
		С	1/2 inch-14 NPT	888N-F4AFE1-1F	888N-R4AFE1-1F	888N-M4AFE1-1F	888N-E4AFE1-1F
		Α		888N-F5AF1-1F	888N-R5AF1-1F	888N-M5AF1-1F	888N-E5AF1-1F
5-Pin	600V AC/DC, 8 A	В		888N-F5AFA1-1F	888N-R5AFA1-1F	888N-M5AFA1-1F	888N-E5AFA1-1F
		С		888N-F5AFE1-1F	888N-R5AFE1-1F	888N-M5AFE1-1F	888N-E5AFE1-1F
6-Pin		А		888N-F6AF1-1F	888N-R6AF1-1F	888N-M6AF1-1F	888N-E6AF1-1F

18 AWG Receptacles

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



3-Pin Mini Female Terminal Chamber

• Screw terminals provide simple and

· Allows easy modification of existing cable

Features

• Field installable

installations

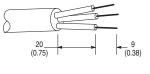
secure installation

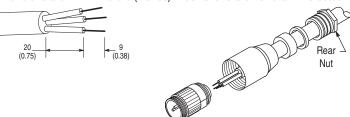
Specifications

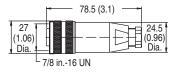
Mechanical	
	Disals an adjust of all projectors
Coupling Nut Material	Black anodized aluminum
Connector Shell Material	PBT
Contact Material	Gold-plated brass
Wire Size, Max.	16 AWG (1.5 mm ²)
Environmental	
Enclosure Type Rating	IP67
Operating Temperature [C (F)]	-40+85° (-40+185°)

Approximate Dimensions

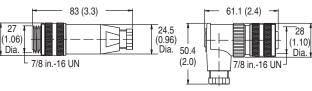
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



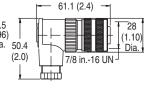




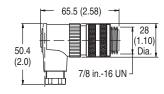
Straight Internal Thread



Straight External Thread



Right Angle Internal Thread



Right Angle External Thread



Pinout

		Face Vie	ew Pinout		
3-	Pin	4-	Pin	5-	Pin
Female	Male	Female	Male	Female	Male

Product Selection

Terminal Chambers



				2.11					
				Cat. No.					
	Cable Diameter	Assembly			Straight Female		Straight Male		Straight Male
No. of Pins	[mm (in.)]	Rating	Thread Size		Internal Threads		Internal Threads		External Threads
3-Pin	6.08.0 (0.230.31)	250V, 12 A	PG9	*	871A-TS3-N2	*	871A-TS3-NU2	*	871A-TS3-NM2
3-7111	10.012.0 (0.390.47)	250V, 12 A	PG13.5		871A-TS3-N1		871A-TS3-NU1		871A-TS3-NM1
	6.08.0 (0.230.31)		PG9	*	871A-TS4-N1	*	871A-TS4-NU1	*	871A-TS4-NM1
4-Pin	10.012.0 (0.390.47)	250V, 9 A	PG13.5		871A-TS4-N2		871A-TS4-NU2		871A-TS4-NM2
	12.014.0 (0.470.55)		PG16		871A-TS4-N3		871A-TS4-NU3		871A-TS4-NM3
	6.08.0 (0.240.32)		PG9	*	871A-TS5-N1	*	871A-TS5-NU1	*	871A-TS5-NM1
5-Pin	10.012.0 (0.390.47)	250V, 9 A	PG13.5		871A-TS5-N2		871A-TS5-NU2		871A-TS5-NM2
	12.014.0 (0.470.55)		PG16		871A-TS5-N3		871A-TS5-NU3		871A-TS5-NM3

 $[\]star$ Available in right angle. Replace the **S** in the cat. no. with an **R** (i.e. 871A-T**R**3-N2)

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





Features

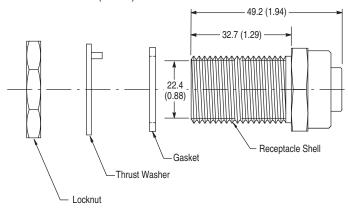
- Male to female bulkhead pass-thru provides flexibility in thru-panel installations
- 3-...6-pin mini versions for use in multiple applications with standard wiring or DeviceNet implementations

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						
3-1	Pin	4-	Pin	5-	Pin	6-	Pin
0 0	0 0	0 0		6 0	(0 0) (0 0)	6 0	0 0
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

Configurator	3-30
Cordsets & Patchcords	3-32
Recentacles	3-36



Cordset

 $\frac{889N \ F}{a} - \frac{9}{b} \quad \frac{A}{c} \quad \frac{F}{d} - \frac{5}{e}$

а

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
710, 12	Number of Pins

C

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

d

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

е

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

Patchcord

889N	F -	7	Α	F	N	U -	2
	а	b	C	d	е	f	g

a

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

b

	No. of Pins
Code	Description
710, 12	No. of Pins

C

Jacket Material		
Code	Description	
Α	PVC Cable	

d

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

е

	Male End Connector Style
Code	Description
N	Mini QD

1

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

g

	<u> </u>
	Cable Length
Code	Description
Blank	Meters $(0M3 = 0.3 \text{ m})$

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

Receptacles

 $\frac{888N}{a} - \frac{F}{a} \quad \frac{7}{b} \quad \frac{A}{c} \quad \frac{F}{d} \quad \frac{I}{e} - \frac{1F}{f}$

a

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

b

No. of Pins		
Code	Description	
710, 12	No. of Pins	

C

Wire Type		
Code	Description	
Α	PVC	

d

Wire Gauge		
Code	Description	
Е	18 AWG	
F	16 AWG	

е

Mounting Threads		
Code	Description	
1	1/2 in14 NPT	

f

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

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, STOOW-A, 7- and 8-Pin





8-Pin Mini-Plus Straight to Straight Patchcord

Features

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

Specifications

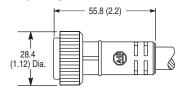
Certifications	UL Recognized and CSA Certified	
Mechanical		
Coupling Nut Material	Anodized aluminum with clear sealant, 16 AWG Epoxy-coated zinc, 18 AWG	
Housing Material	Molded oil-resistant PVC	
Contact Material	Gold-plated machined brass	
Cable Type	Oil-resistant yellow PVC jacket, 16 or 18 AWG stranded copper, 600V or 300V; UL Recognized and CSA Certified, STOOW	
Bend Radius	10x diameter	
Cable Diameter [mm (in.)]	n.)] 7/c = 14 (0.55) 8/c = 15 (0.59)	
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

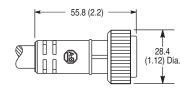
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Straight Female



Example of Cordset



Straight Male



Example of Patchcord

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



		Face Vie	w Pinout	
	7-P	in	8-1	Pin
Color				
Code	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
В	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

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

Patchcords	
------------	--

		Cat. No.*
No. of Pins	Assembly Rating	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.

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

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	

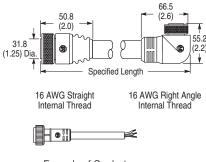
Environmental

Specifications

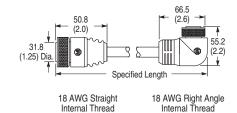
Enclosure Type Rating	NEMA 4, 6P, 12, 13; IP67; 1200 psi washdown
Temperature Rating [C (F)]	-40+105° (-40+221°)

Approximate Dimensions

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



Example of Cordset





Example of Patchcord

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



	Face View Pinout					
9-Pin		Pin	10-Pin		12-Pin	
Color	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 0 0			
Code	Female	Male	Female	Male	Female	Male
А	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
В	-	_	-	_	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 Fellows

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

Patchcords Policing

		Cat. No.*	
No. of Pins	Assembly Rating	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
10-FIII	(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
12-PIII	(3) 18 AWG/(9) 22 AWG, 300V, 3 A	889N-F12ACNU-2	889N-F12ACNV-2
Thread adaptor to couple star	ndard 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.



7-Pin Mini-Plus Female Receptacle

Features

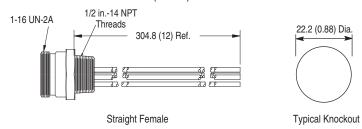
- 16 AWG conductors
- Female bulkhead receptacles
- 3-, 4-, 5-, or 6-pin configuration
- 1/2 in. 14 NPT threads

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, STOOW
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

		Face Vie	ew Pinout	
	7-F	Pin	8-F	Pin
Color	(a a a)	0 0 0	000	
Code	Female	Male	Female	Male
А	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



				Cat. No.*	
No. of Pins	Assembly Rating	Color Code	Thread Size	Straight Female External Threads	Straight Male External Threads
7-Pin	600V AC/DC, 7 A	А	1/2 inch 14 NPT	888N-F7AF1-1F	888N-M7AF1-1F
8-Pin	000V AC/DC, 7 A			888N-F8AF1-1F	888N-M8AF1-1F

18 AWG Receptacles



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



12-Pin Mini-Plus Male Receptacle

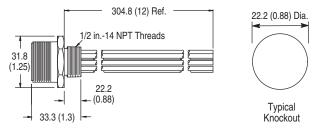
- 16 AWG conductors
- Female bulkhead receptacles
- 3-, 4-, 5-, or 6-pin configuration
- 1/2 inch-14 NPT threads

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.



3-Cords

Pinout and Color Code

			Face Vie	ew Pinout			
	9-	9-Pin		10-Pin		12-Pin	
Color	0 0 0 0	0 0 0	0 0 0				
Code	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



				Cat. No.∗	
No. of Pins	Assembly Rating	Color Code	Thread Size	Straight Female External Threads	Straight Male External Threads
9-Pin	600V, 7 A	А	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



				Cat. No.*	
No. of Pins	Assembly Rating	Color Code	Thread Size	Straight Female External Threads	Straight Male External Threads
9-Pin	300V, 4.9 A	А	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.

















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
Cordsets & Patchcords	3-44
V-Cables	3-60
Y-Cables	3-66
Splitters	3-68
Receptacles	3-70
Terminal Chambers	3-72
Field Attachable (IDC)	3-74
Bulkhead Pass-thru	3-76



Cordset

 $\frac{889D S}{a} - \frac{F}{b} \quad \frac{4}{c} \quad \frac{A}{d} \quad \frac{C}{e} - \frac{-}{f} \quad \frac{10}{g}$

Patchcord

 $\frac{889D S}{a} - \frac{F}{b} \frac{4}{c} \frac{A}{d} \frac{C}{e} \frac{D}{f} \frac{E}{g} - \frac{2}{h} \frac{2}{i}$

	Connector Type				
Code	Description				
Α	Straight Female, LED—NPN				
В	Straight Female, LED—PNP				
Е	Right Angle Male (External Threads)				
F	Straight Female (Internal Threads)				
М	Straight Male (External Threads)				
N	Right Angle Female, LED—NPN				
Р	Right Angle Female, LED—PNP				
R	Right Angle Female (Internal Threads)				

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

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

	No. of Pins
Code	Description
35, 8	No. of Pins

d

	Jacket Material	
Code	Description	
Α	PVC Cable, Yellow, Unshielded	
В	PVC Cable, Black, Unshielded	
Е	PVC Cable, Yellow, Braided Shield	
F	PVC Cable, Yellow, Foil Shield	
G	PVC Cable, Grey, Unshielded	
Н	TPE or Toughlink Cable, Unshielded	
L	PVC Cable, Blue, Unshielded	
U	PUR Cable, Yellow, Unshielded	
W	ToughWeld Cable, Unshielded	

Wire Gauge	
Code	Description
С	22 AWG
D	20 AWG
Е	18 AWG
J	18 AWG, Flex

	Male End Connector Style
Code	Description
D	DC Micro QD

g

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

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

	Cable Length
Code	Description
Blank	Meters ∗

	Number of Pins
Code	Description
35, 8	Number of Pins

d

	Jacket Material		
Code	Description		
Α	PVC Cable, Yellow, Unshielded		
В	PVC Cable, Black, Unshielded		
Е	PVC Cable, Yellow, Braided Shield		
F	PVC Cable, Yellow, Foil Shield		
G	PVC Cable, Grey, Unshielded		
Н	TPE or Toughlink Cable, Unshielded		
L	PVC Cable, Blue, Unshielded		
U	PUR Cable, Yellow, Unshielded		
W	ToughWeld Cable, Unshielded		

е

	Wire Gauge	
Code	Description	
С	22 AWG	
D	20 AWG	
Е	18 AWG	
J	18 AWG, Flex	

Special Characteristics	
Code	Description
Blank	Standard Wiring
Q	Quadroplex Wiring
K	KwikLink Auxiliary Power Wiring
С	Coiled Cable

g

	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

 $\frac{888D}{a} - \frac{F}{a} = \frac{4}{b} = \frac{A}{c} = \frac{C}{d} = \frac{1}{e} - \frac{OM3}{f}$

a

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

b

No. of Pins					
Code	Description				
35, 8	No. of Pins				

С

Wire Type				
Code	Description			
A	PVC			

d

	Wire Gauge					
Code	Description					
С	22 AWG					
Е	18 AWG					

е

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

t

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.



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
- Blue jacket models for intrinsically safe applications
- "-Q" models specifically wired for Quadroplex applications
- "-V" models allow wiring of devices using pin 2 for output into standard single-point distribution boxes and IP67 I/O

Specifications

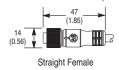
•	
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC jacket, 18 or 22 AWG conductors, 300V, UL Recognized and CSA Certified
Bend Radius	10 x diameter
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
1←────────────────────────────────────	1←────────────────────────────────────
2←────────────────────────────────────	2←───── 2
3←────────────────────────────────────	3←────────────────────────────────────
4←────←4	4←──── 4
5← 5	

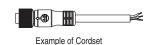
Approximate Dimensions

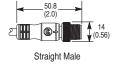
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

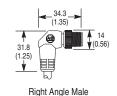




Right Angle Female









Example of Patchcord

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

Pinout and Color Code

	2-Pin		3-	Pin	4-Pin		5-Pin	
Color			1-	5	5 2 1			
Code				Female	Male			
Α	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
В	1 Brown 2 NA 3 NA	4 Blue 5 NA	-	_	_		_	_

Product Selection

Cordsets	

			Wire Size Cat. No.∗				
No. of Pins	Color Code	Jacket Color	[AWG]	Straight Female	Right Angle Female	Straight Male	Right Angle Male
2-Pin	А	Yellow		889D-F2AC-2	889D-R2AC-2	889D-M2AC-2	889D-E2AC-2
Z-PIII	В	Black	22	889D-F2BC-Q2	889D-R2BC-Q2	_	_
3-Pin	A	Yellow	22	889D-F3AC-2	889D-R3AC-2	889D-M3AC-2	889D-E3AC-2
	А	Yellow		889D-F4AC-2	889D-R4AC-2	889D-M4AC-2	889D-E4AC-2
4-Pin		Yellow	18	889D-F4AE-2	889D-R4AE-2	889D-M4AE-2	889D-E4AE-2
4-PIII		Black	22	889D-F4BC-2	889D-R4BC-2	889D-M4BC-2	889D-E4BC-2
		Blue	22	889D-F4LC-2	889D-R4LC-2	889D-M4LC-2	889D-E4LC-2
5-Pin		Yellow		889D-F5AC-2	889D-R5AC-2	889D-M5AC-2	889D-E5AC-2
5-PIII	A	Black	22	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 Patchcords

				Cat. No. ®				
No. of Pins	Color Code	Jacket Color	Wire Size [AWG]	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male	
2-Pin	А	Yellow	22	889D-F2ACDM-2	889D-F2ACDE-2	889D-R2ACDM-2	889D-R2ACDE-2	
2-7111	В	Black	22	889D-F2BCDM-Q2	889D-F2BCDE-Q2	889D-R2BCDM-Q2	889D-R2BCDE-Q2	
3-Pin	А	Yellow	22	889D-F3ACDM-2	889D-F3ACDE-2	889D-R3ACDM-2	889D-R3ACDE-2	
	А	Yellow	22	889D-F4ACDM-2	889D-F4ACDE-2	889D-R4ACDM-2	889D-R4ACDE-2	
	A‡	Yellow	22	889D-F4ACDM-V2	889D-F4ACDE-V2	889D-R4ACDM-V2	889D-R4ACDE-V2	
4-Pin	А	Yellow	18	889D-F4AEDM-2	889D-F4AEDE-2	889D-R4AEDM-2	889D-R4AEDE-2	
	A	Black	22	889D-F4BCDM-2	889D-F4BCDE-2	889D-R4BCDM-2	889D-R4BCDE-2	
	А	Blue	22	889D-F4LCDM-2	889D-F4LCDE-2	889D-R4LCDM-2	889D-R4LCDE-2	
5-Pin	А	Yellow		889D-F5ACDM-2	889D-F5ACDE-2	889D-R5ACDM-2	889D-R5ACDE-2	
		Black	22	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.

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



[‡] See Wiring Diagrams on page 3-44

22 AWG, Yellow PVC Shielded



4-Pin DC Micro Cordset

Features

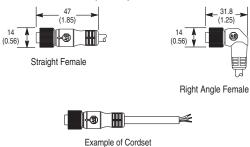
- Ratcheting coupling nut
- · Highly visible yellow PVC jacket offers good oil and chemical resistance
- Shielding reduces noise in signal transmitted through cable
- Braided models exhibit improved durability and abrasion resistance
- "-J" models provide shield grounding through pin 5 for ease of grounding

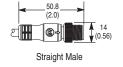
Specifications

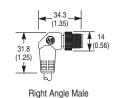
III December of and COA Contilled
UL Recognized and CSA Certified
Epoxy-coated zinc
Molded oil-resistant PUR
Gold over nickel-plated brass
Yellow oil-resistant PVC jacket, 22 AWG conductors, 300V, UL Recognized and CSA Certified
10x diameter
4/c = 5 (0.21) 5/c = 6.5 (0.25)
UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant
250V, 4 A
NEMA 6P, 1200 psi (8270 kPa) washdown, IP69K
-20+105 ° (-4+221 °)

Approximate Dimensions

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













Pinout and Color Code

		Face Vie	w Pinout	
	4	4-Pin	5-P	in
Color		1 3	3	
Code		Female	Male	
Α	1 Brown 2 White 3 Blue	4 Black 5 NA	1 Brown 2 White 3 Blue	4 Black 5 Grey
В	1 Brown 2 White 3 Blue	4 Black 5 Drain wire	_	-

Product Selection

Cordsets	
Corasets	

			Wire Size	Vire Size Cat. No.∗				
No. of Pins	Color Code	Shield	[AWG]	Straight Female	Right Angle Female	Straight Male	Right Angle Male	
	А	Braided Shield		889D-F4EC-2	889D-R4EC-2	889D-M4EC-2	889D-E4EC-2	
4-Pin	4-Pin A	Foil Shield	00	889D-F4FC-2	889D-R4FC-2	889D-M4FC-2	889D-E4FC-2	
В		Foii Silleid	22	889D-F5FC-J2	889D-R5FC-J2	889D-M5FC-J2	889D-E5FC-J2	
5-Pin	А	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 Patchcords

				Cat. No.∜			
No. of Pins	Color Code	Shield	Wire Size [AWG]	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
	А	Braided Shield		889D-F4ECDM-2	889D-F4ECDE-2	889D-R4ECDM-2	889D-R4ECDE-2
4-Pin	А	E 11 01 1 1 1	00	889D-F4FCDM-2	889D-F4FCDE-2	889D-R4FCDM-2	889D-R4FCDE-2
	В	Foil Shield	22	889D-F5FCDM-J2	889D-F5FCDE-J2	889D-R5FCDM-J2	889D-R5FCDE-J2
5-Pin	А	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-*).

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: 7.4 (0.29) 8/c: 7.4 (0.29)

Electrical

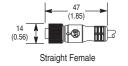
4 & 5/c (PUR): UL AWM style 20866 VW-1 80C 300V, CSA AWM A/B
I/II 80C 300V FT1, UV oil and water resistant
8/c (PUR): UL AWM style 20866 90C 300V, CSA II A 90C 300V
TPE: UL AWM style 20327 VW-1 105C 300V, CSA AWM A/B I/II 105C
300V FT1, UV oil and water resistant

Environmental

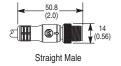
IP67, NEMA 6P, 1200 psi (8270 kPa) washdown, IP69K
PUR models: -20+80 ° (-4+176 °)
TPE models: -50+105 ° (-58+221 °)
TPR models: -25+125 ° (-13+256 °)

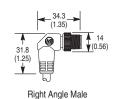
Approximate Dimensions

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

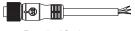


31.8 (1.25)

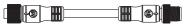




Right Angle Female



Example of Cordset



Example of Patchcord

Pinout and Color Code

	Face View Pinout						
	3-Pin 4-Pin 5-Pin			Pin	8-8	Pin	
Color		1 4	5 5	1		7 6 5	8 3 2 1 4 5 6 7
Code	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
В	_	_	_		_	1 White 2 Brown 3 Green 4 Yellow	5 Grey 6 Pink 7 Blue 8 Red

Product Selection

Cordsets •

No. of		Wire Size.		Color		Cat.	No.*											
Pins	Cable Type	AWG	Assembly Rating	Code	Straight Female	Right Angle Female	Straight Male	Right Angle Male										
3-Pin	PUR	18			889D-F3UE-2	889D-R3UE-2	889D-M3UE-2	889D-E3UE-2										
	TPE	18			889D-F4HJ-2	889D-R4HJ-2	889D-M4HJ-2	889D-E4HJ-2										
4-Pin	IFE	22	250V, 4 A	0501/ 4 4	0507.4.4	0507.4.4	050)/ 4 4		889D-F4HL-2	889D-R4HL-2	889D-M4HL-2	889D-E4HL-2						
4-PIII	PUR	22		Α	889D-F4UC-2	889D-R4UC-2	889D-M4UC-2	889D-E4UC-2										
	PUR 1	18														889D-F4UE-2	889D-R4UE-2	889D-M4UE-2
5-Pin	PUR	22			889D-F5UC-2	889D-R5UC-2	889D-M5UC-2	889D-E5UC-2										
	TPR	24	30V AC/36V DC 1.5 A		889D-F8AC-2	_	_	_										
8-Pin	PUR	24	30V AC/30V DC 1.3 A		889D-F8AB-2	889D-R8AB-2	889D-M8AB-2	889D-M8AB-2										
0-1111	PVC Shielded	24	_	В	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 Patchcords

						Cat.	No.*	
No. of Pins	Cable Type	Wire Size, AWG	Assembly Rating	Color Code	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin	PUR	18			889D-F3UEDM-2	889D-F3UEDE-2	889D-R3UEDM-2	889D-R3UEDE-2
	TPE	22			889D-F4HJDM-2	889D-F4HJDE-2	889D-R4HJDM-2	889D-R4HJDE-2
4-Pin	IFE	1FL 22	250V. 4 A	A	889D-F4HLDM-2	889D-F4HLDE-2	889D-R4HLDM-2	889D-R4HLDE-2
4-PIII	PUR	22	250V, 4 A	A	889D-F4UCDM-2	889D-F4UCDE-2	889D-R4UCDM-2	889D-R4UCDE-2
	PUR	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			889D-F8ABDM-2	889D-F8ABDE-2	889D-R8ABDM-2	889D-R8ABDE-2
8-Pin	PVC Shielded	24	30V AC/36V DC 1.5 A	В	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-*).



18 and 22 AWG, ToughLink™ or ToughWeld™



4-Pin DC Micro Cordset

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

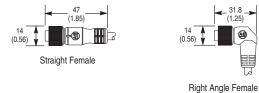
Temperature Rating [C (F)] -50...+105 ° (-58...+221 °)

Features

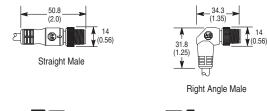
- Ratcheting coupling nut for vibrating resistance
- ToughLink TPE yellow jacket offers excellent oil and chemical resistance
- ToughWeld CPE yellow jacket provides excellent resistance to weld slag
- · Heavy duty construction for rugged environments

Approximate Dimensions

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





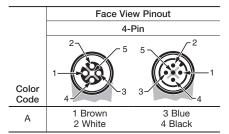




Example of Patchcord

18 and 22 AWG, ToughLink™ or ToughWeld™

Pinout and Color Code



Product Selection

Cordsets

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

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



PLTC, 18 and 22 AWG, Grey PVC



4-Pin DC Micro Cordset

Features

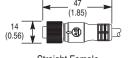
- · Heavy duty power limited tray cable (PLTC) 18 AWG cable
- PVC jacket offers good oil and chemical resistance
- 4-, 5-, and 6-pin configurations
- Ratcheting coupling nut for vibration resistance

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	

Approximate Dimensions

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

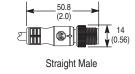


Straight Female



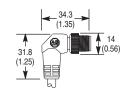
Right Angle Female



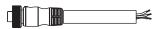


Enclosure Type Rating IP67 & IP69K

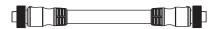
Temperature Rating [C (F)] -20...+105 (-4...+221)



Right Angle Male



Example of Cordset



Example of Cordset

PLTC, 18 and 22 AWG, Grey PVC

Pinout and Color Code

			Face Vie	w Pinout			
	2-Pin	3-Pin	4-	Pin	5-F	5-Pin	
Color		1—	5	3-22	—-1 4		
Code	Female	Male	Fer	nale	Ma	ale	
А	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



		Cat. No.*				
No. of Pins	Wire Size, AWG	Straight Female (Internal Threads)	Right Angle Female (Internal Threads)	Straight Male w/External Threads	Right Angle Male w/External Threads	
2-pin		889D-F2GC-2	889D-R2GC-2	889D-M2GC-2	889D-E2GC-2	
3-pin	22	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	
4-piii	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.



		Cat. No.₩				
No. of Pins	Wire Size, AWG	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male	
2-pin		889D-F2GCDM-2	889D-F2GCDE-2	889D-R2GCDM-2	889D-R2GCDE-2	
3-pin	22	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	
4-piii	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.



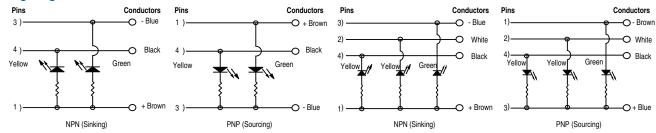
4-Pin DC Micro Cordset

- 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
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

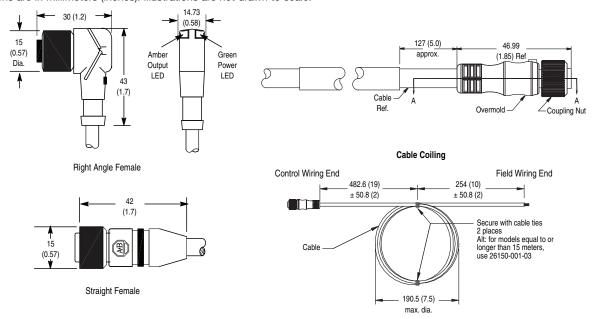
Wiring Diagrams



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

	Face Viev	v Pinout
	4-P	in
Color Code	14	5 3
Α	1 Brown 2 Not Used	3 Blue 4 Black
В	1 Brown 2 White	3 Blue 4 Black

Product Selection

LED Cordsets



					Cat.	No.*
No. of Pins	Jacket Material	Wire Size, AWG	Color Code	Output Type LED	Straight Female	Right Angle Female
4 min/2 wine DC miere	Yellow PVC	22	А	PNP	889D-B3AC-2	889D-P3AC-2
4-pin/3-wire DC micro				NPN	889D-A3AC-2	889D-N4AC-2
4-pin			В	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
НВ	24 AWG	TPE Cable
UC	22 AWG	PUR Cable
UB	24 AWG	PUR Cable
JB	24 AWG	Black PUR Hallogen Free



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

20 and 22 AWG, LED or Coiled

Patchcords	
i atomoorao	

No. of Pins			Output Type	Cat. No.∗					
Female	Male	Jacket Material	Wire Size, AWG	Color Code	LED	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
					PNP	889D-B3ACDM-2	889D-B3ACDE-2	889D-P3ACDM-2	889D-P3ACDE-2
4 Di-		00 414/0		NPN	889D-A3ACDM-2	889D-A3ACDE-2	889D-N3ACDM-2	889D-N3ACDE-2	
4-Pin	4-Pin	Yellow PVC	22 AWG	A	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
НВ	24 AWG	TPE Cable
UC	22 AWG	PUR Cable
UB	24 AWG	PUR Cable
JB	24 AWG	Black PUR Hallogen Free



20 and 22 AWG, LED or Coiled

Patchcords—Threaded

No. of Pins Output Type		Cat. No.*							
Female	Male	Jacket Material	Wire Size, AWG	Color Code	LED	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
4 Din	4-Pin	Yellow	00 000	^	PNP	889D-B3ABPM-2	889D-B3ABPE-2	889D-P3ABPM-2	889D-P3ABPE-2
4-Pin	4-PIN	PVC	22 AWG	A	NPN	889D-A3ABPM-2	889D-A3ABPE-2	889D-N3ABPM-2	889D-N3ABPE-2

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

Patchcords—Snap On

No. of Pins Output Type			Cat.	No.*					
Female	Male	Jacket Material	Wire Size, AWG	Color Code	LED	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	^		889D-B3UBPG-2	889D-B3UBPH-2	889D-P3UBPG-2	889D-P3UBPH-2
4-PIII	4-Pin	reliow PVC	24 AWG	A	_	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.

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.



DC Micro to Pico Patchcord

- 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

3-Pin Pico	4-Pin DC Micro
Pin 1 >	———→ Pin 1
	> Pin 2
Pin 3 >	——— Pin 3
Pin 4 >	→ Pin 4

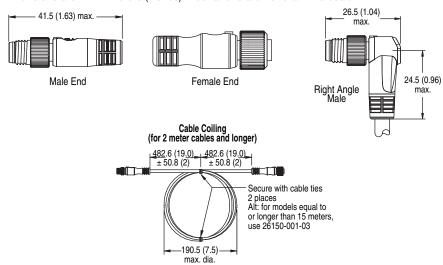
-Pin Pico Female	4-Pin DC Micro Male
Pin 1 >	———→ Pin 1
Pin 2 >	———→ Pin 2
Pin 3 >	———→ Pin 3
Pin 4 >	———→ Pin 4

Specifications

•	
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	DC Micro: Black epoxy-coated zinc; Pico: Nickel-plated brass
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

	Face View Pinout						
Pinout	A			В	С		
	3-5-1	3	3 2 1	5 2 1 1 3 4 1	1 3	1-3	
	Female	Male	Female	Male	Female	Male	
		o Female to Micro Male		o Female to Micro Male	4 Pin DC Micro Female to 3 Pin Pico Male		

Product Selection

Patchcords Patchcords

				Cat. No.∗			
Style: Female to Male	Pinout	Wire Size, AWG	Assembly Rating	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	А	24	NonLED: 60V AC/75V DC, 4 A; LED: 1030V DC, 4 A	889P-F3ABD4M-2	889P-F3ABD4E-2	889P-R3ABD4M-2	889P-R3ABD4E-2
4-Pin Pico to 4-Pin Micro	В	24	60V AC/75V DC 4 A	889P-F4ABDM-2	889P-F4ABDE-2	_	_
4-Pin Micro to 3-Pin Pico	С	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.



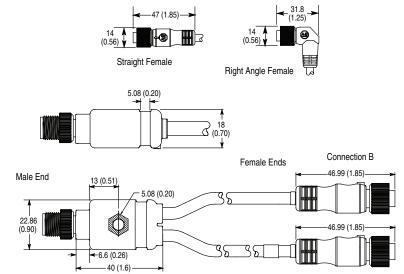
- · Space-saving slim design
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Convenient connection of two sensors to one I/O port
- Standard wiring models with or without pin 5 designed for use with dual input distribution boxes and IP67 distributed I/O
- Individual power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

Specifications

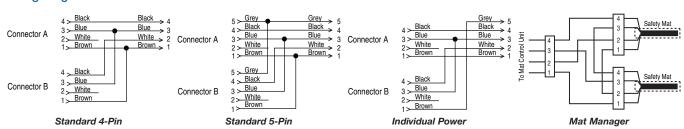
- poomounom	
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Insert Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC jacket, 22 AWG conductors, 300V
Cable Diameter [mm (in.)]	5 (0.21) 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°)

Approximate Dimensions

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

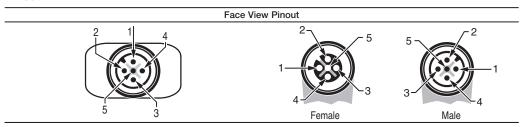


Wiring Diagrams



Connection A

Pinout



Product Selection

V-Cable Cordsets

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

V-Cables

			Cat.	No.*
Туре	Jacket Material	Assembly Rating	Straight Female	Right Angle Female
Chandoud Mining	Yellow PVC		879D-F4ACDM-2	879D-R4ACDM-2
Standard Wiring	Black PVC		879D-F4BCDM-2	879D-R4BCDM-2
Otana da ad Minisa a cuitta Dia 5	Yellow PVC		879D-F5ACDM-2	879D-R5ACDM-2
Standard Wiring with Pin 5	Black PVC	250V, 4 A	879D-F5BCDM-2	879D-R5BCDM-2
In dividual Dance Wiston	Yellow PVC		879D-F4ACD5M-2	879D-R4ACD5M-2
Individual Power Wiring	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-*).



DC Micro V-Cable

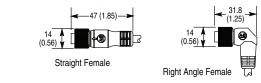
- Space-saving slim design
- Highly visible yellow PVC jacket offers good oil and chemical resistance
- Convenient connection of two sensors to one I/O port
- Standard wiring models with or without pin 5 designed for use with dual input distribution boxes and IP67 distributed I/O
- Individual power wiring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

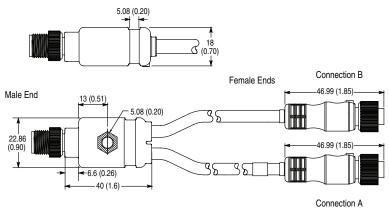
Specifications

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°)

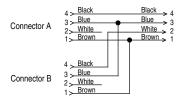
Approximate Dimensions

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

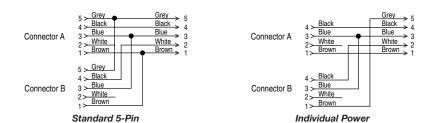




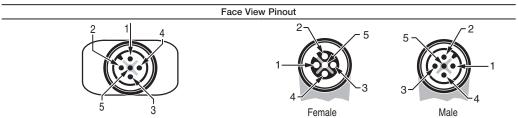
Wiring Diagrams



Standard 4-Pin







Product Selection

LEDs

				Cat.	No.*
Туре	Output Type	Wire Size, AWG	Jacket Material	Straight Female	Right Angle Female
Ottore allowed societies as	PNP			879D-B4ACDM-2	879D-P4ACDM-2
Standard wiring	NPN	00	V-II DVO	879D-A4ACDM-2	879D-N4ACDM-2
1 2 1 1	PNP	22	Yellow PVC	879D-B4ACD5M-2	879D-P4ACD5M-2
Individual power	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



DC Micro V-Cable

- 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

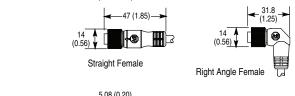
Specifications

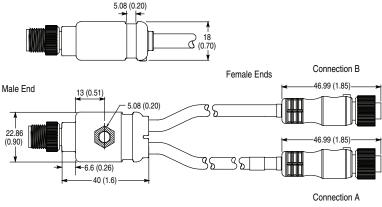
•	
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Insert Material	Molded oil-resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC or TPE jacket, 18 AWG conductors, 300V
Cable Diameter [mm (in.)]	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

Approximate Dimensions

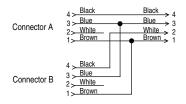
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

Temperature Rating [C (F)] -20...+105° (-4...+221°)

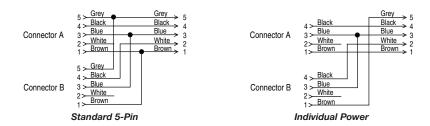




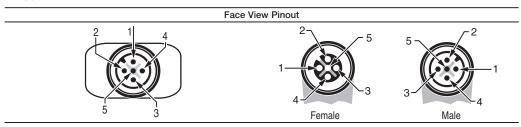
Wiring Diagrams



Standard 4-Pin

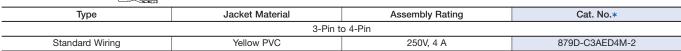


Pinout



Product Selection

V-Cable Cordsets •••••



V-Cables

			Cat. No.∗	Cat. No.∗
Туре	Jacket Material	Assembly Rating	Straight Female	Right Angle Female
Standard Wiring	Yellow PVC	250V, 4 A	879D-F4AEDM-2	879D-R4AEDM-2
Standard Willing	Yellow TPE		879D-F4HJDM-2	879D-R4HJDM-2
In dividual Davis Ministra	Yellow PVC	0507.4.4	879D-F4AED5M-2	879D-R4AED5M-2
Individual Power Wiring	Yellow TPE	250V, 4 A	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.



DC Micro Y-Cable

- 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

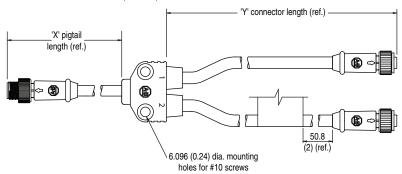
Specifications

•	
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

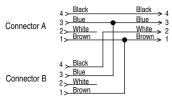
Approximate Dimensions

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

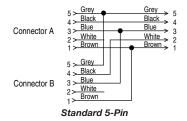
Temperature Rating [C (F)] -20...+105° (-4...+221°)

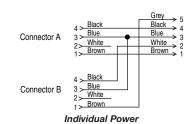


Wiring Diagrams



Standard 4-Pin







Product Selection

Туре	Output	Jacket Material	Connector End	Pigtail	Cat. No.∗‡∜
			Straight Female	Straight Female	879D-F4ACT1M-2
Ctandard wining		Yellow PVC		Right Angle Female	879D-R4ACT1M-2
Standard wiring	_	reliow PVC	D: 1.4 1 E 1	Straight Female	879D-F4ACT1E-2
			Right Angle Female	Right Angle Female	879D-R4ACT1E-2
			Straight Female	Straight Female	879D-B4ACT1M-2
Standard wiring	PNP	Yellow PVC	Straight Female	Right Angle Female	879D-P4ACT1M-2
Standard wiring	FINE	Tellow FVC	Right Angle Female	Straight Female	879D-B4ACT1E-2
			hight Angle Female	Right Angle Female	879D-P4ACT1E-2
			Straight Female	Straight Female	879D-A4ACT1M-2
Standard wiring	NPN	Yellow PVC	Straight Female	Right Angle Female	879D-N4ACT1M-2
Standard wiring	INFIN	Tellow FVC	Right Angle Female	Straight Female	879D-A4ACT1E-2
			hight Angle Female	Right Angle Female	879D-N4ACT1E-2
	_	Yellow PVC	Straight Female	Straight Female	879D-F5ACT1M-2
5-pin wiring				Right Angle Female	879D-R5ACT1M-2
5-pin wiring			Right Angle Female	Straight Female	879D-F5ACT1E-2
				Right Angle Female	879D-R5ACT1E-2
		Yellow Braided PVC	Straight Female	Straight Female	879D-F5AC5T1M-2
Individual power wiring -				Right Angle Female	879D-R5AC5T1M-2
individual power wiring	— Yellow E	Tellow Braided FVC	Right Angle Female	Straight Female	879D-F5AC5T1E-2
				Right Angle Female	879D-R5AC5T1E-2
			Straight Female	Straight Female	879D-B4AC5T1M-2
Individual power wiring	PNP	Yellow PVC	Straight i emale	Right Angle Female	879D-P4AC5T1M-2
individual power wiring	FINE	Tellow FVC	Right Angle Female	Straight Female	879D-B4AC5T1E-2
			nigrit Arigie Fernale	Right Angle Female	879D-P4AC5T1E-2
			Straight Female	Straight Female	879D-A4AC5T1M-2
Individual power wiring	NPN	Yellow PVC	Straight Female	Right Angle Female	879D-N4AC5T1M-2
individual power wiring	INCIN	Tellow PVC	Diabt Anala Fanc-I-	Straight Female	879D-A4AC5T1E-2
			Right Angle Female	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
ВС	22 AWG	Black PVC Cable
AE	18 AWG	Yellow PVC Cable
HJ	18 AWG	Yellow TPE Flex-rated Cable



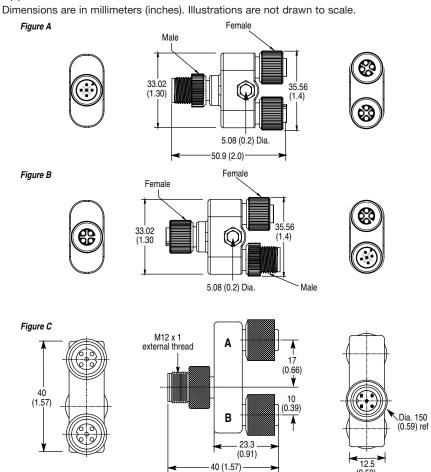
Splitter, DC Micro

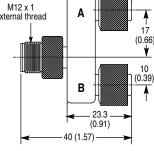
- · Standard wiring models with or without pin 5 designed for use with dual input distribution boxes and IP67 distributed I/O
- Standard wiring with pin 5 version specifically keyed for MDSA applications
- Individual power wiring version for use with dual input distributed I/O with pointlevel diagnostics
- 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

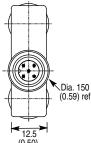
Specifications

opeometric.	
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 °)	

Approximate Dimensions







Pinout and Color Code

	Face View	
Color Code	1 5 Female	5 2 1 Male
А	1 Brown 2 White	3 Blue 4 Black

Product Selection

Splitters

Connector Style	Wiring Diagram	Assembly Rating	Dimensions		Cat. No.
Standard Wiring (without pin 5)	A	250V, 4 A	Fig. A		879D-F4DM
Standard Wiring (with pin 5)	A B Female Female				879D-F5DM
Standard Wiring (with pin 5) for MDSA	2	250V, 4 A	Fig. C	*	898D-53PY-D5
Individual Power Wiring	A Female 1	250V, 4 A	Fig. A		879D-F4D5M
	A Female Female 1	250V, 4 A	- 1 ig. /1		1485P-RDR5
Tap-Style Wiring	Female 1 2 3 4 5 5 4 5 4 5 6 7 8 8 8 9 9 9 9 9 9 9 9 9 9	250V, 4 A	Fig. B		1485P-DRR5

^{*} 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

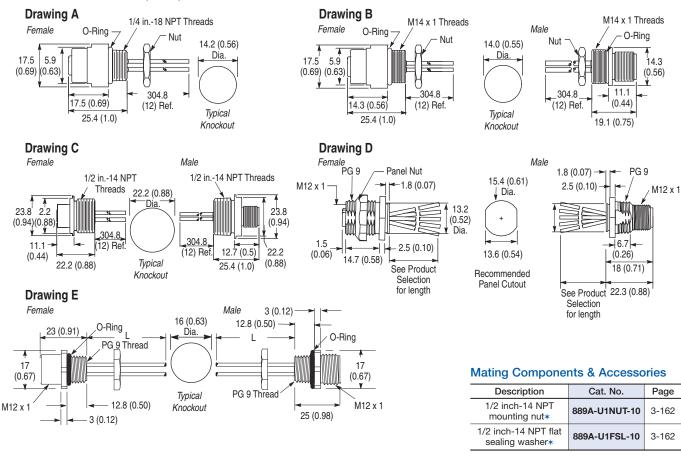
Specifications	
Certifications	UL Recognized and CSA Certified
Mechanical	
Receptacle Shell Material	Black anodized machined aluminum
Connector Insert Material	Nylon
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC, 18 or 22 AWG stranded copper, 300V, UL Recognized and CSA 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.



Pinout and Color Code

				Face Vie	w Pinout			
	3-1	Pin	4-	Pin	5-F	Pin	8-1	Pin
		1-4	5	3	1		7 6 5 5	8 3 2 1 4 5 6 7
Color Code		Fen	nale	M	ale		Female	Male
А	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

					Ca	t. No).		
No. of Pins	Assembly Rating [AWG]	Drawing	Drawing Panel Mount Threads		Female		Male		
		A	1/4 inch-18 NPT		888D-F3AC2-1		_		
3-Pin		С	1/2 inch-14 NPT	*	888D-F3AC1-1	*	888D-M3AC1-1		
3-PIII		В	M14 x 1		888D-F3AC6-1	*	888D-M3AC6-1		
		D	Rear Mount PG 9	*	888D-F3AC5-1	*	888D-M3AC5-1		
		А	1/4 inch-18 NPT		888D-F4AC2-1		_		
4-Pin	250V, 4 A	С	1/2 inch-14 NPT	*	888D-F4AC1-1	*	888D-M4AC1-1		
4-PIN		В	M14 x 1		888D-F4AC6-1	*	888D-M4AC6-1		
		D	Rear Mount PG 9	*	888D-F4AC5-1	*	888D-M4AC5-1		
		С	1/2 inch-14 NPT	*	888D-F5AC1-1	*	888D-M5AC1-1		
5-Pin		В	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	*	888D-M8AB3-1		

18 AWG Receptacles

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

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

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.

Terminal Chambers, DC Micro Style



DC Micro Female

~	n	Δ	\sim	т	\sim	2	TI	\sim	n	c
S	μ	C	U	ш	v	а	u	v		C
	•									

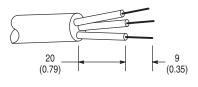
Mechanical					
Coupling Nut Material	Nickel-plated brass				
Connector Shell Material	PBT, except embedded thermistor models: Nylon				
Contact Material	Gold plated palladium nickel				
Cable Diameter	18 AWG (0.75 mm²) max.				
Electrical					
Assembly Rating	4- or 5-pin: 250V, 4 A 8-pin: 60V, 2 A				
Environmental					
Enclosure Type Rating	IP67				
Operating Temperature [C. (F)]	-40 88° (-40 185°)				

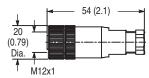
Approximate Dimensions

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

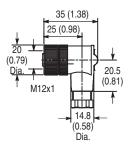
Features

- 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

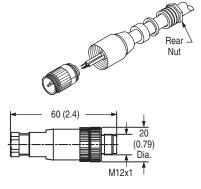




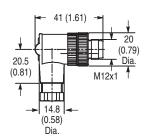
Straight Female



Right Angle Female



Straight Male



Right Angle Male

Pinout

	Face Vie	ew Pinout	
4-Pin	5-Pin	8-	-Pin
1 3	3-2-1	7 6 5	8 3 2 1 4 5 7
Female	Male	Female	Male

Product Selection

Single-Cable Model Terminal Chambers



				Cat. No.			
No. of Pins	Cable Jacket Diameter [mm (in.)]	Assembly Rating	Rear Nut Thread Size	Straight Female	Right Angle Female	Straight Male	Right Angle Male
4-Pin	4.06.0 (0.160.24)		PG 7	871A-TS4-D	871A-TR4-D	871A-TS4-DM	871A-TR4-DM
4-PIII	6.08.0 (0.240.32)	250V. 4 A	PG 9	871A-TS4-D1	871A-TR4-D1	871A-TS4-DM1	871A-TR4-DM1
5-Pin	4.06.0 (0.160.24)	250V, 4 A	PG 7	871A-TS5-D	871A-TR5-D	871A-TS5-DM	871A-TR5-DM
5-FIII	6.08.0 (0.240.32)		PG 9	871A-TS5-D1	871A-TR5-D1	871A-TS5-DM1	871A-TR5-DM1
8-Pin	6.08.0 (0.240.32)	60V, 2 A	PG 9	871A-TS8-D1	_	871A-TS8-DM1	_

Dual Cable Model Terminal Chambers



	Cable Jacket	Assembly		Cat. No.		
No. of Pins	Diameter [mm (in.)]	Rating	Rear Nut Thread Size	Straight Male	Right Angle Male	
4-Pin	Two cables 2.13.0			871A-VS4-DM	871A-VR4-DM	
5-Pin	(0.080.12) or (3.55.2 (0.140.21)	250V, 4 A	PG 9	871A-VS5-DM	871A-VR5-DM	

Embedded Thermistor Terminal Chambers



	Cable Jacket	Assembly	Cat. No.∗		
No. of Pins	Diameter [mm (in.)]	Rating	Wiring Diagram	Straight Male	Right Angle Male
4-Pin	3.06.5 (0.120.26)	250V, 4 A	1 2 -TC+ 3 4 -TC-	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).





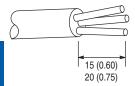
Features

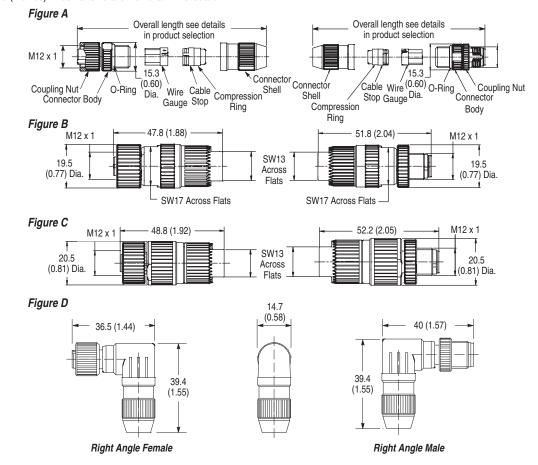
- Field installable with no hand tools needed
- 4-pin DC micro style
- Straight or right angle, male or female
- · Allows easy modification of existing cable installations
- Insulation displacement technology for secure and reliable installation
- · Metal body unit excellent in shielding applications

Specifications

Mechanical	
Coupling Nut 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.)]	2622 AWG, 20 AWG: 1.01.6 (0.0390.063) 2422 AWG, 2218 AWG: 1.62.0 (0.0630.079)
Electrical	
Assembly Rating	32V, 4 A 50V, 6 A
Environmental	
Enclosure Type Rating	IP67
Operating Temperature [C (F)]	-2585° (-13185°)
Installation Temperature [C (F)]	-550° (23185°)

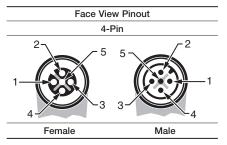
Approximate Dimensions







Pinout



Product Selection

IDC Field Attachables



			Cable				Cat. N	lo.	
No. of Pins	Connector Body	Dimensions	Diameter [mm (in.)]	Wire Size	Assembly Rating	Straight Female	Straight Female	Straight Female	Straight Female
	Polyamide Small body unshielded	Figure A & D	4.05.1 (0.160.20)	2622 AWG	32V 4 A	889D-F4DC-H	889D-M4DC-H	889D-R4DC-H	889D-E4DC-H
4-Pin	Zinc die cast Large body shielded	Figure B	7.08.8 (0.280.35)	2422 AWG	32V 4 A	889D-F4DC-SH	889D-M4DC-SH	_	_
	Polyamide Large body unshielded	Figure C	5.58.0 (0.220.31)	2218 AWG	50V 6 A	889D-F4CE-H	889D-M4CE-H	_	_

Bulkhead Pass-Thru, DC Micro Style



DC Micro Bulkhead Pass-Thru

Features

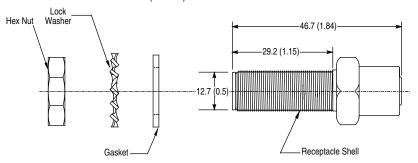
- Male to female bulkhead pass-thru provides flexibility in thru-panel installations
- Standard 5-pin DC micro version allows use for a variety of pin-count configurations

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.
1 3	250V, 4 A	3 2 1	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 pluas.

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

Configurator	.3-78
Cordsets & Patchcords	.3-80
Splitters	.3-92
Receptacles	.3-94
Terminal Chambers	.3-96



Cordset

 $\frac{889R S}{a} - \frac{F}{b} \quad \frac{3}{c} \quad \frac{E}{d} \quad \frac{C}{e} \quad \frac{A}{f} - \frac{5}{g}$

а

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

b

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

C

	Number of Pins
Code	Description
36	Number of Pins

d

	Jacket Material				
Code	Description				
Α	PVC Cable, Yellow, Unshielded				
Е	PVC Cable, Yellow, Braided Shield				
G	PVC, Grey, Unshielded				
Н	ToughLink, TPE, Unshielded				
K	PVC, Grey, Braided Shield				
U	PUR, Yellow, Unshielded				
W	ToughWeld™				

е

Wire Gauge				
Code	Description			
С	22 AWG			
D	20 AWG			
Е	18 AWG			

f

Wire Color Code			
Code	Description		
Α	Automotive Color Code		

g

Cable Length			
Code	Description		
С	Coil Cable		
Blank	Meters *		

Patchcord

889R	S -	- F	3	Α	Е	D	М -	- 10
	a	b	С	d	е	f	q	h

a

	Coupling Nut Material				
Code	ode 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	
36	No. of Pins	

d

-					
	Jacket Material				
Code	Description				
Α	PVC Cable, Yellow, Unshielded				
Е	PVC Cable, Yellow, Braided Shielded				
G	PVC, Grey, Unshielded				
Н	ToughLink, TPE, Unshielded				
K	PVC, Grey, Braided Shield				
U	PUR, Yellow, Unshielded				
W	ToughWeld				

е

	Wire Gauge
Code	Description
С	22 AWG
D	20 AWG
Е	18 AWG

f

Male End Connector Style		
Code	Description	
R	AC Micro QD	

g

	Male End Connector Type			
Code	Code Description			
Е	Right Angle Male (External Threads)			
М	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

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

a

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

b

No. of Pins						
Code	Description					
36	No. of Pins					

C

Wire Type						
Code	Description					
Α	PVC					

d

	Wire Gauge					
Code	Description					
С	22 AWG					

е

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)					

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

18 or 22 AWG, PVC



3-Pin AC Micro Cordset

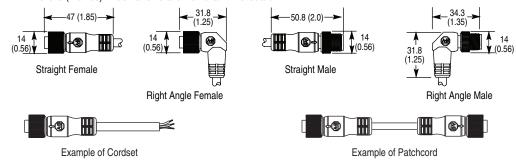
Features

- 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

S	p	е	C	Ħ	С	a	ti	0	n	S

•	
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° (-4221°)

Approximate Dimensions



Pinout and Color Code

	Face View Pinout							
	3-Pin		4-Pin		5-Pin		6-Pin	
	2 3	3	3 2 2	1 4	2 3 4 5	4 5 1	2 6 3 4	4 5 6 2
Color Code	Female	Male	Female	Male	Female	Male	Female	Male
А	2 Red/E	n (GND) Black Tr. 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	1

			Cat. No.*				
No. of Pins	Assembly Rating	Color Code	Straight Female	Right Angle Female	Straight Male	Right Angle Male	
3-Pin	Braided 22 AWG , 250V, 4 A		889R-F3ECA-2	889R-R3ECA-2	889R-M3ECA-2	889R-E3ECA-2	
3-7111	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	
4-6111	18 AWG , 250V, 4 A	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	
5-PIII	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 Patchcords

			Cat. No.∗					
No. of Pins	Assembly Rating	Color Code	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		889R-F3ECRM-2	889R-F3ECRE-2	889R-R3ECRM-2	889R-R3ECRE-2		
3-PIN	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		
4-PIN	18 AWG , 250V, 4 A	Α	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		
5-PIN	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.

18 AWG, ToughWeld™



3-Pin AC Micro Cordset

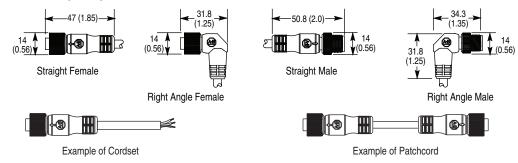
Features

- 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





Pinout and Color Code

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

Product Selection

Cordsets



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



				Cat. No.∗				
No. of Pins	Assembly Rating	Material	Color Code	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	Α	889R-F3WERM-3F	889R-F3WERE-3F	889R-R3WERM-3F	889R-R3WERE-3F	
4-Pin	18 AWG, 250V, 4 A	ToughWeld	А	889R-F4WERM-3F	889R-F4WERE-3F	889R-R4WERM-3F	889R-R4WERE-3F	
5-Pin	18 AWG, 250V, 4 A	ToughWeld	Α	889R-F5WERM-3F	889R-F5WERE-3F	889R-R5WERM-3F	889R-R5WERE-3F	
3-Pin	18 AWG, 250V, 4 A	ToughLink	Α	889R-F3HERM-3F	889R-F3HERE-3F	889R-R3HERM-3F	889R-R3HERE-3F	
4-Pin	18 AWG, 250V, 4 A	ToughLink	А	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.

18 AWG, Yellow PUR & TPE (Flex Rated)



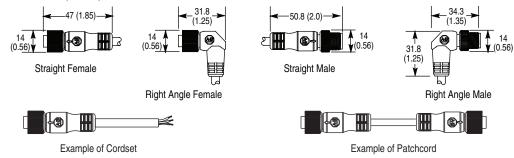
3-Pin AC Micro Cordset

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 Bating	IP67_IP69K

Approximate Dimensions





18 AWG, Yellow PUR & TPE (Flex Rated)

Pinout and Color Code

		Face View Pinout									
	3-	Pin	4-1	Pin	5-Pin		6-Pin				
	2 3	3	3 2 2	1 4	2 3 4 5	4 2 2	2 6 3 4 5	4 5 6 2			
Color Code	Female	Male	Female	Male	Female	Male	Female	Male			
А	2 Red/l	n (GND) Black Tr. 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		Temperature Rating	Jacket	Cat. No.∗					
Pins	Cable Rating	[C (F)]	Material	Straight Female	Right Angle Female	Straight Male	Right Angle Male		
3-Pin m	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		
4-5111	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 Din	Flex rated to 5 million cycles	-20+80° (-4+105)	Yellow PUR	889R-F5UEA-2	889R-R5UEA-2	889R-M5UEA-2	889R-E5ECA-2		
5-Pin	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 Patchcords

				Cat. No.∜				
No. of Pins	Cable Rating	Temperature Rating [C (F)]	Jacket Material	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 Din	Flex rated to 5 million cycles	-20+80° (-4+176)	Yellow PUR	889R-F4UERM-2	889R-F4UERE-2	889R-R4HJRM-2	889R-R4UERE-2	
4-Pin	Flex rated to 10 million cycles	-50+105° (-58+221)	Yellow TPE	889R-F4HJRM-2	889R-F4HJRE-2	889R-R4HJRM-2	889R-R4HJRE-2	
E Din	Flex rated to 10 million cycles	-50+105° (-58+221)	Yellow TPE	889R-F5UERM-2	889R-F5UERE-2	889R-R5HJRM-2	889R-R5UERE-2	
5-Pin	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.

PLTC, 18 and 22 AWG, Grey PVC



4-Pin AC Micro Cordset

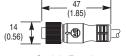
Features

- 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

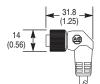
Specifications

•	
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)

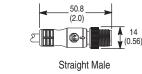
Approximate Dimensions

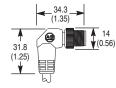


Straight Female



Right Angle Female





Right Angle Male



Example of Cordset



Example of Cordset



Pinout and Color Code

		Face View Pinout									
	3-1	Pin	4-Pin		5-Pin		6-Pin				
	2 3	3 2	3-22	2 3	2 3 4	4 2 2	2 6 3 4 5	4 6 2			
Color Code	Female	Male	Female	Male	Female	Male	Female	Male			
А	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	

				Cat. No.*			
No. of Pins	Jacket Material	Wire Size, AWG	Cable Diameter [mm (in.)]	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

				Cat. No.∗			
No. of Pins	Jacket Material	Wire Size, AWG	Cable Diameter [mm (in.)]	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.

20 AWG, Coil Cable, PVC



3-Pin AC Micro Cordset

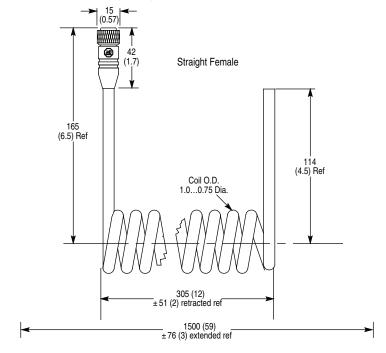
Features

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

S	pe	C	fi	ca	ti	o	ns
~	٣٠		•••	-		~	

opeomoations	
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





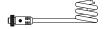


Pinout and Color Code

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

Product Selection

Cordsets



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

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

18 and 22 AWG, Yellow PVC



3-Pin AC Micro

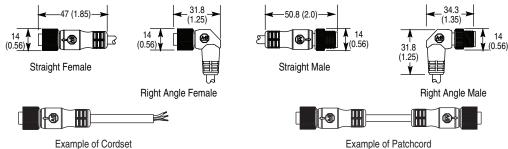
Features

- 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° (-4221°)

Approximate Dimensions





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	Α	В	С					
	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 Patchcords

				Cat. No.∗			
No. of Pins	Connector Style	Color Code	Wire Size, AWG	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
	Mini to AC Micro	B-A	18	889N-F3AERM-2	889N-F3AERE-2	889N-R3AERM-2	889N-R3AERE-2
2 Din	AC Micro to Mini	A-B	18	889R-F3AENM-2	889R-F3AENE-2	889R-R3AENM-2	889R-R3AENE-2
3-Pin	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.





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

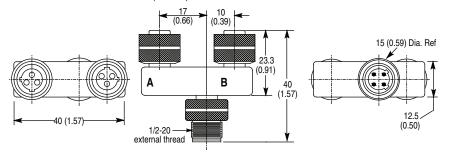
Specifications

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

Approximate Dimensions

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

Operating Temperature [C (F)] -30...+105° (-22...+221°)

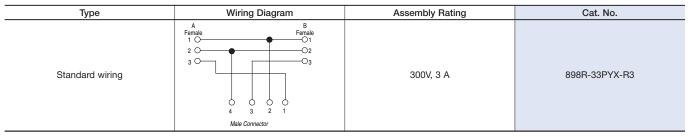


Pinout

Face View Pinout					
3-Pin	4-Pin				
2 3	2 3				

Product Selection

Splitters •





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

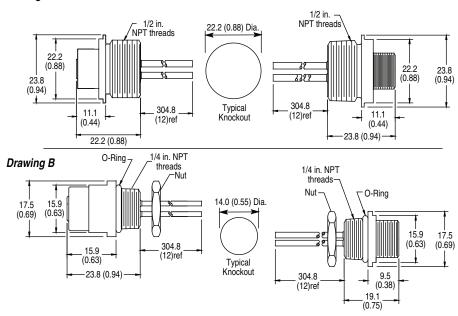
Specifications

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



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

	Face View Pinout							
	3-Pin		4-Pin		5-Pin		6-Pin	
	2 3	3-0-1	3-2-2	2 3	2 3 4	4 2 2	2 6 3 4 5	4 5 6 2
Color Code	Female	Male	Female	Male	Female	Male	Female	Male
A	2 Red/l	reen Black Tr 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

			Panel Mount		Cat.	No.*
No. of Pins	Assembly Rating	Color Code	Threads	Dimension Drawing	Female	Male
3-pin			1/2 inch-14 NPT	A	888R-F3AC1-1F	888R-M3AC1-1F
з-ріп			1/4 inch-18 NPT	В	888R-F3AC2-1F	888R-M3AC2-1F
4-pin		250V, 4 A	1/2 inch-14 NPT	A	888R-F4AC1-1F	888R-M4AC1-1F
4-piii	250V, 4 A		1/4 inch-18 NPT	В	888R-F4AC2-1F	888R-M4AC2-1F
Enin			1/2 inch-14 NPT	A	888R-F5AC1-1F	888R-M5AC1-1F
5-pin			1/4 inch-18 NPT	В	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-1					889A-U1FSL-10	

18 AWG Receptacle

			Panel Mount		Cat. No.*	
No. of Pins	Assembly Rating	Color Code	Threads	Dimension Drawing	Female	Male
O min			1/2 inch-14 NPT	A	888R-F3AE1-1F	888R-M3AE1-1F
3-pin			1/4 inch-18 NPT	В	888R-F3AE2-1F	888R-M3AE2-1F
4 min	250V, 4 A	А	1/2 inch-14 NPT	A	888R-F4AE1-1F	888R-M4AE1-1F
4-pin			1/4 inch-18 NPT	В	888R-F4AE2-1F	888R-M4AE2-1F
F!			1/2 inch-14 NPT	A	888R-F5AE1-1F	888R-M5AE1-1F
5-pin			1/4 inch-18 NPT	В	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		

 $[\]star$ 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.

Terminal Chambers, AC Micro Style

Screw-Type Field Attachable Connectors



AC Micro Male Receptacle

Features

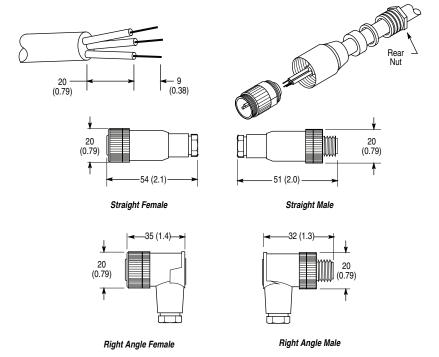
- Field installable
- 3-pin AC micro style
- Straight or right angle
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations

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

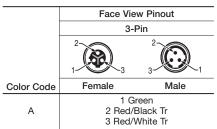
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.





3-96





Product Selection

Terminal Chambers



	Cable Jacket Diameter		Ca	at. No.
Connector Style	[mm (in.)]	Wire Size	Female	Male
Straight	4.0 0.0 (0.10 0.00)	18 (0.75 mm²)	871A-TS3-R	871A-TS3-RM
Right Angle	4.06.0 (0.160.23)		871A-TR3-R	871A-TR3-RM
Straight	0.0.00(0.00.001)	10 (0.75 a)	871A-TS3-R1	871A-TS3-RM1
Right Angle	6.08.0 (0.230.31)	18 (0.75 mm²)	871A-TR3-R1	871A-TR3-RM1

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



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



Cordset

$$\frac{889B}{a} - \frac{F}{a} \quad \frac{4}{b} \quad \frac{A}{c} \quad \frac{C}{d} - \frac{10}{e}$$

а

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

b

Number of Pins		
Code	Description	
34	Number of Pins	

C

Jacket Material		
Code	Description	
Α	PVC Cable, Yellow, Unshielded	

d

Wire Gauge		
Code	Description	
С	22 AWG	

е

Cable Length				
Code	Code Description			
Blank Meters				

Receptacles

$$\frac{888B}{a} - \frac{M}{a} + \frac{4}{b} + \frac{A}{c} + \frac{C}{d} + \frac{6}{e} - \frac{0M3}{f}$$

а

	Connector Type
Code	Description
M	Straight Male (External Threads)

b

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

C

Code		Wire Type
		Description
	Α	PVC

d

		Wire Gauge
Code		Description
	С	22 AWG

е

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

Pinout and Color Code

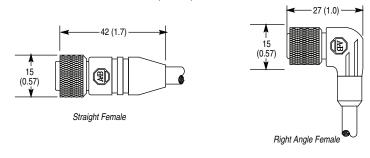
Face View Pinout	
4-Pin Female	
1 2 3 4	
1 Brown 2 Blue 3 Not Used 4 Green/Yellow	
1 Brown 2 Blue 3 Black 4 Green/Yellow	

Specifications

Opcomodiono	
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°)

Approximate Dimensions

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



Product Selection

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



EAC Micro Male Receptacle

Features

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

Pinout and Color Code

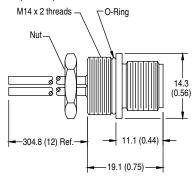
	Face Vie	w Pinout
	4-Pin	Male
Color Code	8	4
А	1 Brown 2 Blue	3 Not Used 4 Green/Yellow
В	1 Brown 2 Blue	3 Black 4 Green/Yellow

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.
4.5	Pin 22 AWG 300V 3 A B M14 x 1 0.3 (1)	А	N44 4 · · · 4	0.2 (1)	888B-M3AC6-0M3
4-PIII		0.3 (1)	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 threadon 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



 $\frac{889P}{a} - \frac{F}{a} \quad \frac{4}{b} \quad \frac{A}{c} \quad \frac{B}{d} - \frac{10}{e}$

a

Connector Type		
Code	Description	
Α	Straight Female, LED, NPN	
В	Straight Female, LED, PNP	
Е	Right Angle Male (External Threads)	
F	Straight Female (Internal Threads)	
G	Straight Male, Snap On	
Н	Right Angle Male, Snap On	
J	Straight Female, NPN, Snap On	
K	Straight Female, PNP, Snap On	
М	Straight Male (External Threads)	
N	Right Angle Female, LED—NPN	
Р	Right Angle Female, LED—PNP	
R	Right Angle Female (Internal Threads)	
S	Straight Female, Snap-On	
W	Right Angle Female, PNP, Snap-On	
Υ	Right Angle Female, NPN, Snap-On	
Z	Right Angle Female, Snap-On	

b

Number of Pins		
Code	Description	
34	Number of Pins	

C

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

d

Wire Gauge		
Code	Description	
В	24 AWG	

е

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

Patchcord

$$\frac{889P}{a} - \frac{F}{a} \quad \frac{4}{b} \quad \frac{A}{c} \quad \frac{B}{d} \quad \frac{P}{e} \quad \frac{M}{f} - \frac{10}{g}$$

a

Connector Type		
Code	Description	
Α	Straight Female, LED, NPN	
В	Straight Female, LED, PNP	
F	Striaght Female (Internal Threads)	
J	Straight Female, NPN, Snap On	
K	Straight Female, PNP, Snap On	
Ν	Right Angle Female, LED—NPN	
Р	Right Angle Female, LED—PNP	
R	Right Angle Female (Internal Threads)	
S	Straight Female, Snap-On	
W	Right Angle Female, PNP, Snap-On	
Υ	Right Angle Female, NPN, Snap-On	
Z	Right Angle Female, Snap-On	

b

	No. of Pins		
Co	de	Description	
3	.4	No. of Pins	

С

	<u>~</u>	
Jacket Material		
Code	Description	
Α	PVC Cable, Yellow, Unshielded	
J	PUR Cable, Black, Unshielded, Halogen Free	
U	PUR Cable, Yellow, Unshielded	

d

Wire Gauge		
Code	Description	
В	24 AWG	

е

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

f

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

g

	Cable Length					
Code	Code Description					
V	Reverse Wiring					
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.

Receptacles

$$\frac{888P}{a} - \frac{F}{a} \quad \frac{4}{b} \quad \frac{A}{c} \quad \frac{C}{d} \quad \frac{1}{e} - \frac{0M3}{f}$$

а

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

b

No. of Pins					
Code Description					
34	No. of Pins				

C

Wire Type					
Code Description					
Α	PVC				

d

Wire Gauge				
Code Description				
В	24 AWG			

е

Mounting Threads				
Code Description				
4	M8 x 0.5			

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.

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

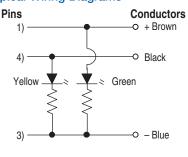


Pico Screw-On Style

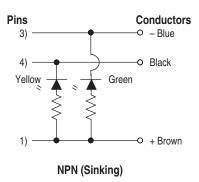
Features

- 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

Typical Wiring Diagrams



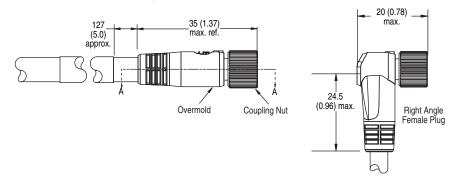
PNP (Sourcing)

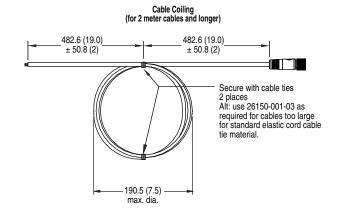


Specifications

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: 1030V 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°)

Approximate Dimensions





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

Pinout and Color Code

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

Product Selection

Screw-On Cordsets



	Jacket		Color		Cat. No.∗			
No. of Pins	Material	Assembly Rating	Code	LED Type	Straight Female	Right Angle Female	Straight Male	Right Angle Male
3-Pin	Yellow PVC	24 AWG 60V AC/75V	A	_	889P-F3AB-2	889P-R3AB-2	889P-M3AB-2	889P-E3AB-2
3-7111	Yellow PUR	DC 4 A			889P-F3UB-2	889P-R3UB-2	_	_
	Yellow PVC	24 AWG 1030V DC/4 A		PNP	_	889P-P3AB-2	_	_
3-Pin LED	Yellow PUR				_	889P-P3UB-2	_	_
	Yellow PVC			NPN -	_	889P-N3AB-2	_	_
	Yellow PUR				_	889P-N3UB-2	_	_
4.5:	Yellow PVC	24 AWG 60V AC/75V			889P-F4AB-2	889P-R4AB-2	889P-M4AB-2	889P-E4AB-2
4-Pin	Yellow PUR	DC 4 A			889P-F4UB-2	889P-R4UB-2	889P-M4UB-2	889P-E4UB-2

Screw-On Patchcords



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

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

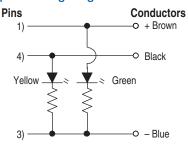


Pico Screw-On Style

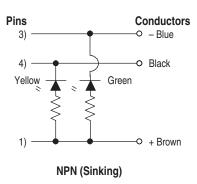
Features

- 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

Typical Wiring Diagrams



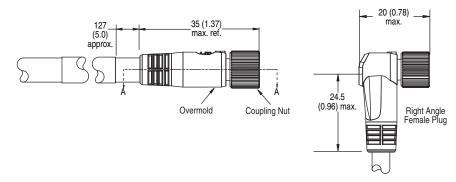
PNP (Sourcing)

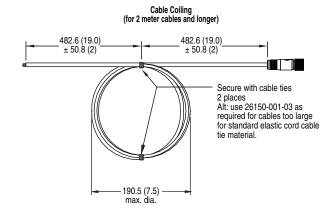


Specifications

•	
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: 1030V 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



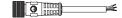


Pinout and Color Code

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

Product Selection

Screw-On Cordsets



			Cat. No.∗			
No. of Pins	Jacket Material	Color Code	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



			Cat. No.∗			
No. of Pins	Jacket Material	Color Code	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)		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)	Yellow PVC		889P-F3ABD4M-2	889P-F3ABD4E-2	889P-R3ABD4M-2	889P-R3ABD4E-2
Male: Pico (4p) Female: Pico (4p)		В	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
НВ	Yellow TPE Flex



Cordsets and Patchcords, Pico Style

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

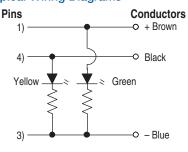


Pico Snap-On Style

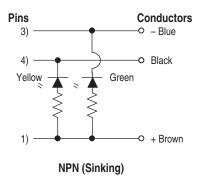
Features

- 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

Typical Wiring Diagrams



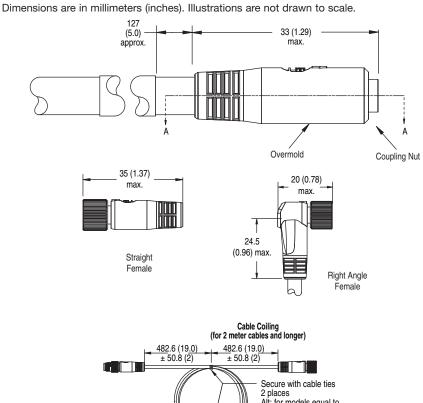
PNP (Sourcing)

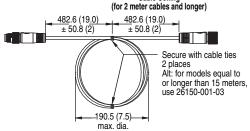


Specifications

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: 1030V 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





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

Pinout and Color Code

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

Product Selection

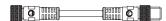
Snap-On Cordsets



	Jacket		Color		Cat.	No.*
No. of Pins	Material	Assembly Rating	Code	LED Type	Straight Female	Right Angle Female
3-Pin	Yellow PVC	24 AWG 60V AC/75V			889P-S3AB-2	889P-Z3AB-2
	Yellow PUR	DC 4 A		_	889P-S3UB-2	889P-Z3UB-2
	Yellow PVC	24 AWG 1030V DC 4 A	А	PNP	_	889P-W3AB-2
3-Pin LED	Yellow PUR				_	889P-W3UB-2
3-PIN LED	Yellow PVC			NPN	_	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



			Cat. No.∗				
No. of Pins	Jacket Material	Color Code	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	А	889P-S3ABPG-2	889P-S3ABPH-2	889P-Z3ABPG-2	889P-Z3ABPH-2	
Male: Pico (3p) Female: Pico (4p)	Yellow PVC	А	889P-S4ABP3G-2	889P-S4ABP3H-2	889P-Z4ABP3G-2	889P-Z4ABP3H-2	
Male: Pico (4p) Female: Pico (4p)	Yellow PVC	А	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
НВ	Yellow TPE Flex

Cordsets and Patchcords, Pico Style

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

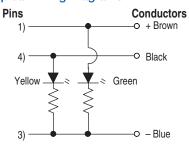


Pico Screw-On Style

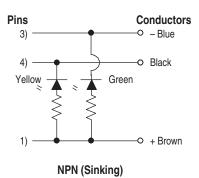
Features

- 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

Typical Wiring Diagrams



PNP (Sourcing)



Specifications

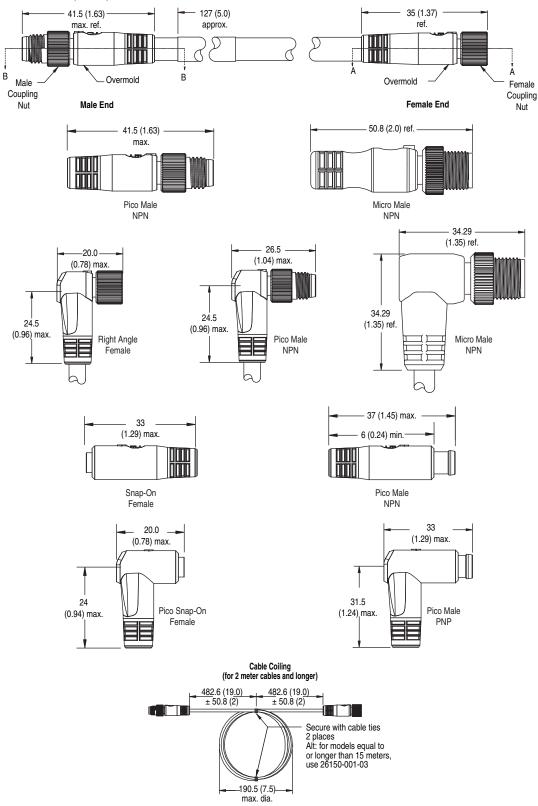
•	
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Material	Molded, oil-resistant, PUR
Contact Material	Gold-plated brass
Cable Type	Oil , water-, and UV-resistant, 24 AWG conductors, 300V, 4 A, AWM
Cable Diameter [mm (in.)]	3/c = 4.6 (0.18) 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: 1030V 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°)

Pinout and Color Code

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

Approximate Dimensions

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



Cordsets and Patchcords, Pico Style

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

Product Selection

Screw-On Cordsets



				Cat. No.∗	
No. of Pins	Jacket Material	Color Code	LED Type	Straight Female	Right Angle Female
3-pin	Valley DVC	۸	PNP	889P-B3AB-2	889P-P3AB-2
	Yellow PVC	A	А	NPN	889P-A3AB-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



					Cat. No.∗				
Female Connector	Male Connector	Jacket Material	Color Code	Output	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			PNP	889P-B3ABPM-2	889P-B3ABPE-2	889P-P3ABPM-2	889P-P3ABPE-2	
	3-pin Fico	Yellow PVC		NPN	889P-A3ABPM-2	889P-A3ABPE-2	889P-N3ABPM-2	889P-N3ABPE-2	
2 min Dina	4	Tellow PVC		PNP	889P-B3ABD4M-2	889P-B3ABD4E-2	889P-P3ABD4M-2	889P-P3ABD4E-2	
3-pin Pico	4-pin Micro		A	NPN	889P-A3ABD4M-2	889P-A3ABD4E-2	889P-A3ABD4M-2 889	889P-N3ABD4E-2	
	E min Minus	Yellow PVC,	1	PNP	889P-B3FBD5M-J2	889P-B3FBD5E-J2	889P-P3FBD5M-J2	889P-P3FBD5E-J2	
	5-pin Micro	Shielded		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
НВ	Yellow TPE/ToughLink Cable



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

Snap-On Cordsets

				Cat. No.*	
No. of Pins	Jacket Material	Color Code	LED Type	Straight Female	Right Angle Female
	Yellow PUR		PNP	889P-K3UB-2	889P-W3UB-2
O mim	reliow POR	^	NPN	889P-J3UB-2	889P-Y3UB-2
3-pin	DI 1 DI 10	A	PNP	889P-K3JB-2	889P-W3JB-2
	Black PUR		NPN	889P-J3JB-2	889P-Y3JB-2

Snap-On Patchcords	O O O O O O O O O O	
--------------------	----------------------------	--

					Cat. No.∗®				
Female Connector	Male Connector	Jacket Material	Color Code	Output	Straight Female to Straight Male	Straight Female to Right Angle Male	Right Angle Female to Straight Male	Right Angle Female to Right Angle Male	
				PNP	889P-K3UBPM-2	889P-K3UBPE-2	889P-W3UBPM-2	889P-W3UBPE-2	
		Yellow PUR		NPN	889P-J3UBPM-2	889P-J3UBPE-2	889P-Y3UBPM-2	889P-Y3UBPE-2	
		reliow PUR		PNP	889P-K3UBD4M-2	889P-K3UBD4E-2	889P-W3UBD4M-2	to Right Angle Male 2 889P-W3UBPE-2 2 889P-Y3UBPE-2 2 889P-W3UBD4E-2 2 889P-W3JBPE-2 3 889P-W3JBPE-2 4 889P-W3JBPE-2 5 889P-W3JBD4E-2	
0 i Di	4 i NAi			NPN	889P-Y3UBD4M-2	889P-J3UBD4E-2	889P-Y3UBD4M-2		
3-pin Pico	4-pin Micro		A	PNP	889P-K3JBPM-2	889P-K3JBPE-2	889P-W3JBPM-2	889P-W3JBPE-2	
		Black PUR		NPN	889P-J3JBPM-2	889P-J3JBPE-2	889P-Y3JBPM-2	889P-Y3JBPE-2	
		Black PUR		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.



DC Micro to Pico Patchcord

- 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

3-Pin Pico	4-Pin DC Micro
Pin 1 >	———→ Pin 1
	> Pin 2
Pin 3 >	——— Pin 3
Pin 4 >	———→ Pin 4

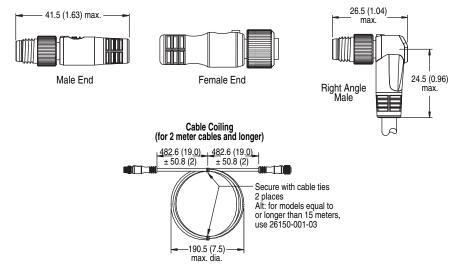
4-Pin DC Micro Male
———→ Pin 1
———→ Pin 2
——— Pin 3
→ Pin 4

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

	Face View Pinout								
Pinout		A	В		С				
	3 4	5 2 1	3 2 1	3	1 3	13			
	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



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

Screw-On Patchcords



		Cat. No.*			
Style: Female to Male	Pinout	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	В	889P-F4ABDM-2	889P-F4ABDE-2	_	_
4-Pin Micro to 3-Pin Pico	С	889D-F4ABP3M-2	889D-F4ABP3E-2	889D-R4ABP3M-2	889D-R4ABP3E-2
Male: Pico (3p) Female: Pico (3p)	А	889P-F3ABPG-2	889P-F3ABPH-2	889P-R3ABPG-2	889P-R3ABPH-2
Male: Pico (3p) Female: Pico (4p)	В	889P-F4ABP3G-2	889P-F4ABP3H-2	889P-R4ABP3G-2	889P-R4ABP3H-2
Male: Micro (4p) Female: Pico (3p)	С	889D-F4ABP3G-2	889D-F4ABP3H-2	889D-R4ABP3G-2	889D-R4ABP3H-2
Male: Pico (3p) Female: Pico (4p)	А	889P-F4ABP3G-2	889D-F4ABP3H-V2	889D-R4ABP3G-V2	889D-R4ABP3H-V2
Male: Micro (4p) Female: Pico (4p)	В	889P-F4ABPG-2	889P-F4ABPH-2	889P-R4ABPG-2	889P-R4ABPH-2
Male: Micro (4p) Female: Pico (4p)	С	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.

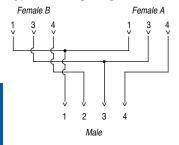
Change AB to:	For:
AB	Yellow PVC Cable
BB	Black PVC Cable
UB	Yellow PUR, Flex Cable
JB	Black Halogen Free PUR Cable
НВ	Yellow TPE Flex Cable





- 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
- Racheting coupling nuts for vibration resistance

Typical Wiring Diagrams

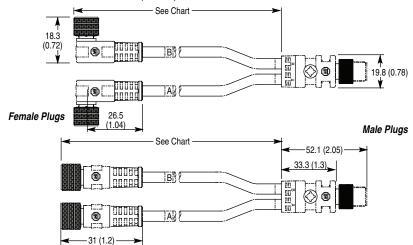


Specifications

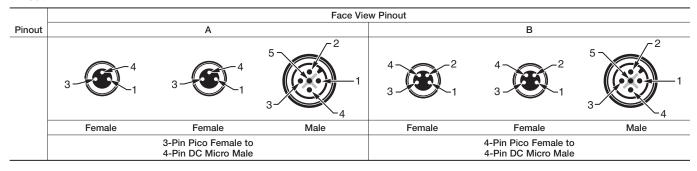
UL Recognized and CSA Certified
Nickel-plated brass (Pico); Epoxy-coated zinc (DC Micro)
Molded TPE
Gold over nickel-plated brass
Oil-resistant yellow PVC jacket, 24 AWG conductors, 300V, UL Recognized, CSA Certified
10 x diameter
3/c = 4.3 (0.17) 4/c = 4.6 (0.18)
UL CM AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 105C 300V FT1
NonLED: 60V AC/75V DC, 4 A; LED: 1030V DC, 4 A
IP67
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



Product Selection

Screw-On V-Cables

					Cat. No.∗	
Female Connector	Jacket Material	Male Connector	LED Type	Pinout	Straight Female Connector	Right Angle Female Connector
3-Pin Pico	Yellow PVC		_	A	879P-F3ABD4M-2	879P-R3ABD4M-2
3-FIII FICO	PUR		_	A	879P-F3UBD4M-2	879P-R3UBD4M-2
4-Pin Pico	PVC		_	В	879P-F4ABD4M-2	_
	PVC	4-Pin DC Micro	PNP		_	879P-P3ABD4M-2
3-Pin Pico LED	PVC		NPN	А	_	879P-N3ABD4M-2
3-PIII PICO LED	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.∗		
			_	879P-S3UBD4M-2		
			_	879P-Z3UBD4M-2		
3-pin		Yellow PVC	PNP	879P-K3UBD4M-2		
3-piii	24		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:	F	or:
JB	24 AWG	Black Halogen Free PUR Cable



Splitter

- 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

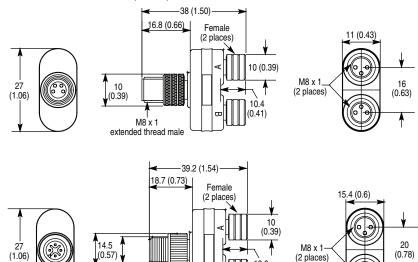
Certifications	UL Recognized and CSA Certified		
Mechanical			
Material	Black PUR		
Connector Insert Material	PUR		
Receptacle Shell Material	Nickel-plated brass		
Contact Material	Gold-plated palladium/nickel		
O-Ring Material	Viton®		
Electrical			
Assembly Rating 60V AC/75V DC, 4 A			
Environmental			

Enclosure Type Rating	IP67; NEMA 6P
Operating Temperature [C (F)]	-0+85° (-32+185°)

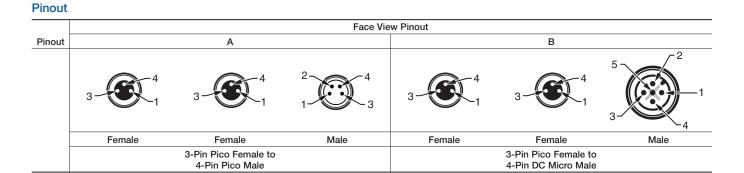
M12 x 1

Approximate Dimensions

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







Product Selection

Splitters •

Connector Style	Wiring Digram		Assembly Rating	Pinout	Cat. No.
Standard Wiring Pico to Pico	Female B	Female A		Α	898P-32YY-PM4
Standard Wiring Pico to DC Micro	1 3 4 1 2 Male	1 3 4	60V AC/75V DC, 4 A	В	898P-32YY-DM4



Pico Receptacles

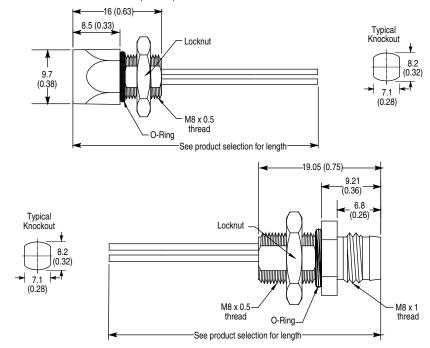
- Connector shell design accommodates threaded male connector types only
- 3-pin and 4-pin configurations provide standard connectivity
- M8 x 0.5 mounting threads for convenient installation

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

	Face View Pinout				
	3-Pin		4-Pin		
Color	3-61	1-3	3 2 1	2 4 3	
Code	Female	Male	Female	Male	
А	1 Brown 3 Blue	4 Black	1 Brown 2 White	3 Blue 4 Black	

Product Selection

Receptacles

				Cat. No.	
No. of Pins	Assembly Rating	Color Code	Panel Mount Threads	Female	Male
3-pin	COV A C /75 V D C 7 A	_	MO v O F	888P-F3AB4-1	888P-M3AB4-1
4-pin	60V AC/75V DC, 7 A	A	M8 x 0.5	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.



3-Pin Pico Female

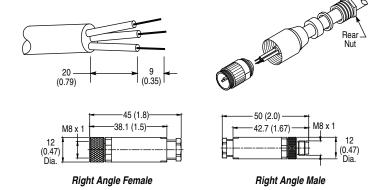
- Field installable
- 3- or 4-pin DC micro style
- Straight connectors
- Screw terminals provide simple and secure installation
- Allows easy modification of existing cable installations

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 mm²) 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.





	Face View Pinout			
	3-Pin		4-	Pin
	3-4-1	13	3 2 1	2 4 3
Color Code	Female	Male	Female	Male
А	1 Brown 3 Blue	4 Black	1 Brown 2 White	3 Blue 4 Black

Product Selection

Terminal Chambers



	Cable Jacket Diameter			Ca	at. No.
No. of Pins	[mm (in.)]	Assembly Rating	Rear Nut Thread Size	Straight Female	Straight Male
3-Pin	0.5 5.0 (0.14 0.00)	COV 4 A	DO 7	871A-TS3-P	871A-TS3-PM
4-Pin	3.55.0 (0.140.20)	60V, 4 A	PG 7	871A-TS4-P	871A-TS4-PM



Pico Style Male

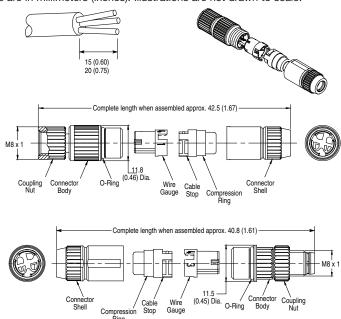
- Field installable with no hand tools needed
- 3- or 4-pin pico style
- Straight male or straight female connectors
- Allows easy modification of existing cable installations
- Insulation displacement technology for secure and reliable installation

Specifications

Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Shell Material	Nickel-plated brass
Connector Material	Hytrel Htr 8068
Field Contact Material	Gold-plated palladium nickel
IDC Installations, Max.	10
Cable Diameter	1.01.6 mm (0.040.063 in.)
Wire Size	2226 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.



Straight Male

Allen-Bradley

Pinout and Color Code

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

Product Selection

Terminal Chambers

	Cable Jacket Diameter		Cat	. No.
Connector Style	[mm (in.)]	Assembly Rating	Female	Male
Straight	4.05.1 (0.160.20)	22V	889P-F3DC-H	889P-M3DC-H
Straight	4.05.1 (0.160.20)	3 A	889P-F4DC-H	889P-M4DC-H









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

Configurator	.3-130
Cordset & Patchcords	.3-132
Receptacles	.3-134
Field Attachable (IDC)	.3-136



Cordset

 $\frac{889M \text{ F}}{a} \quad \frac{12X9}{b} \quad \frac{A}{c} \quad \frac{E}{d} - \frac{10}{e}$

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		
Α	PVC Cable, Yellow, Unshielded		
R	PUR Cable, Black, Unshielded		

d

Wire Gauge	
Code	Description
Е	18 AWG
Н	18 AWG with one twisted pair
М	3/18 AWG and Rest 22 AWG

е

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

Patchcord

$$\frac{888M}{a} - \frac{F}{a} \quad \frac{12}{b} \quad \frac{A}{c} \quad \frac{H}{d} \quad \frac{M}{e} \quad \frac{U}{f} - \frac{1}{g}$$

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

С

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

d

	Wire Gauge
Code	Description
Н	18 AWG with one twisted pair
М	3/18 AWG and Rest 22 AWG

е

	Male End Connector Style
Code	Description
М	M23

f

		Male End Connector Type
Co	ode	Description
T	J	Straight Male (Internal Threads)
١	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 catalog number as the result may be unavailable.

Receptacles

 $\frac{888M}{a} - \frac{F}{a} \quad \frac{12}{b} \quad \frac{A}{c} \quad \frac{E}{d} \quad \frac{CR}{e} - \frac{0M3}{f}$

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
Α	PVC

d

	Wire Gauge				
Code Description					
Е	18 AWG				

е

Mounting Threads			
Code	Description		
Blank	M20 x 1.5		

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.

Cordsets and Patchcords, M23 Style

18 or 18/22 AWG, Black or Yellow PVC



12-Pin M23 Cordset

Features

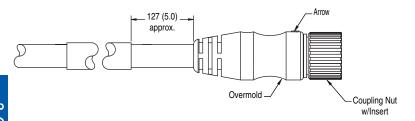
- 12-pin configuration for SafeShield™ light curtains and other applications
- 12-pin/11-conductor on 19-pin for passive distribution and other box applications
- Subtle black or highly visible yellow PVC jacket offers good oil and chemical resistance

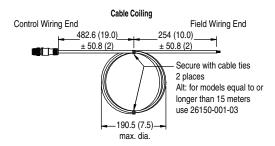
Specifications

UL Recognized and CSA Certified
Nickel-plated brass
Molded oil-resistant PUR
Gold over nickel-plated brass
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
10x diameter
300V
9- & 12-pin: 6 A 11- & 19-conductor: 18 AWG-8 A, 22 AWG-2 A
IP67, IP68
-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		
	2. 1	9 8 8 7 7 12 7 14 6 5 6 5 6 5 6 6 5 6 6 6 6 6 6 6 6 6 6	9 1 2 10 2 11 3	2 1 13 3 14 4 5	12 18 17 19 17 10 15 16 9 16 18 19 17 10 10 10 10 10 10 10 10 10 10	2 1 2 3 4 4 4 5 5 4 5	
	Fe		Male		'emale Ma		
А	1 Brown 2 NA 3 Blue 4 White	9-Conductor 5 NA 6 Green 7 Yellow 8 Grey	9 Pink 10 Red 11 NA 12 Green/Yellow	1 Violet 2 Red 3 Grey 4 Red/Blue 5 Green* 6 Blue*	7 Grey/Pink 8 White/Green 9 White/Yellow 10 White/Grey 11 Black 12 Green/Yellow	13 Yellow/Brown 14 Brown/Green 15 White 16 Yellow 17 Pink 18 Grey/Brown 19 Brown*	
В	11-Conductor (pins 9/10 jumpered)				_		
	1 White 2 Green 3 Yellow 4 Grey	5 Pink 6 Red 7 Black 8 Violet	9 Blue* 10 Blue 11 Brown* 12 Green/Yellow*				
С	12-Conductor				_		
	1 Brown 2 Blue 3 Grey 4 Pink	5 Red 6 Yellow 7 White 8 Red/Blue	9 Black 10 Violet 11 Grey/Pink 12 Green				

^{* 18} AWG



Product Selection

O----

Cordsets									
					Cat. No.*				
No. of	Color	Connector	Cable Diameter	Straight Female	Right Angle Female	Straight Male	Right Angle Male	Straight Male	Right Angle Male
Conductors	Code	Type	[mm (in.)]	(Internal Threads)		w/Internal Threads		w/External Threads	
9	Α	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	В	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	С	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	Α	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

			Cat. No.§			
No. of	Connector	Cable Diameter	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
Conductors	Type	[mm (in.)]	w/Internal Threads			
_	12-pin	10.1 (0.40)	889M-FX9AEMU-2	889M-FX9AEMV-2	889M-RX9AEMV-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

			Cat. No.§			
No. of	Connector	Cable Diameter	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
Conductors	Type	[mm (in.)]				
9	12-pin	10.1 (0.40)	889M-FX9AEMM-2	889M-FX9AEME-2	889M-RX9AEME-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.



12-Pin Male M23 Receptacle

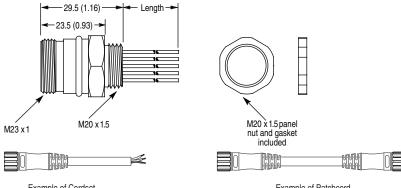
- 18 AWG conductors for ease of wiring
- 12-pin configuration provides standard connectivity
- M20 x 1.5 threads for convenient mounting to safety switches
- Mounting nut and rubber sealing washer included

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.





Example of Patchcord

3-134



Pinout and Color Code

Color Code		Face View Pinout					
		9-, 11-, or 12-Pin			19-Pin		
	3 11 5 6 8 9 1 2 1 3 1 4 3 1 5 6 1 4 3 1 5 1 4 4 3 1 5 1 4 4 3 1 5 1 4 4 3 1 5 1 5 1 4 4 3 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1		10 2 11 3	12 1 12 1 1 12 1 12 1 13 18 17 10 10 10 17 18 13 2 9 17 19 13 18 15 15 14 7 6 5 5 6 7 7		2 1 8 13 2 9 14 3 5 4 4	
	Fei	nale I	Nale	F	emale Ma	ale	
A	1 Brown	9-Pin 5 NA	9 Pink	1 Violet 2 Red 3 Grey	7 Grey/Pink 8 White/Green 9 White/Yellow	13 Yellow/Brown 14 Brown/Green 15 White	
	2 NA 3 Blue	6 Green 7 Yellow	10 Red 11 NA	4 Red/Blue	10 White/Grey	16 Yellow	
	4 White	8 Grey	12 Green/Yellow	5 Green 6 Blue	11 Black 12 Green/Yellow	17 Pink 18 Grey/Brown 19 Brown	
В	11	11-Pin (pins 9/10 jumpered)			_		
	1 White	5 Pink	9 N/C				
	2 Green 3 Yellow 4 Grey	6 Red 7 Black 8 Violet	10 Blue 11 Brown 12 Green/Yellow				
С		12-Pin			_		
	1 Brown 2 Blue 3 Grey 4 Pink	5 Red 6 Yellow 7 White 8 Red/Blue	9 Black 10 Violet 11 Grey/Pink 12 Green				

Product Selection

Receptacles



			Cat. No.§	
No. of Pins	Color Code	Wire Size	Female	Male
9-Pin	A	18 AWG	888M-F12X9AE-1	888M-M12X9AE-1
11-Pin	В	3/18 & 8/22 AWG	888M-F11AE-1	888M-M11AE-1
12-Pin	С	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.



Field-Attachable M23 Connector

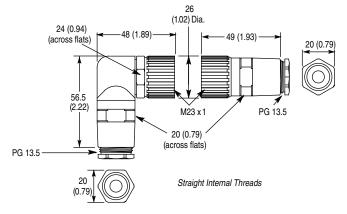
- Straight or right angle, male or female
- 12- or 19-pin M23 style for standard connectivity
- Allows modification of existing cable installations and field creation of special cable lengths
- Solder connector for secure and reliable installation
- Spanner wrench for assembly of connector available

Specifications

Mechanical				
Coupling Nut Material	Nickel-plated brass			
Connector Shell Material	Nickel-plated brass			
Contact Material	Gold-plated palladium/nickel			
Cable Diameter [mm (in.)]	1014 (0.390.55)			
Electrical				
Assembly Rating	63V, 12 A power, 3 A all others			
Environmental				
Enclosure Type Rating	IP65			
Operating Temperature [C (F)]	-20+105° (-4221°)			

Approximate Dimensions

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



3-136

Face View Pinout 9-, 11-, or 12-Pin 19-Pin 19-Pin

Product Selection

Field Attachables

	Cable Jacket Diameter		Cat. No.				
No. of Pins	[mm (in.)]	Assembly Rating	Straight Female	Right Angle Female	Straight Male	Right Angle Male	
12-Pin	10 14 (0.00 0.55)	63V, 12 A power, 3 A all others	889M-F12AH-T	889M-R12AH-T	889M-M12AH-T	889M-E12AH-T	
19-Pin	1014 (0.390.55)		889M-F19AH-T	889M-R19AH-T	889M-M19AH-T	889M-E19AH-T	
Spanner wrench (sold separately)				889A-M23SW			





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

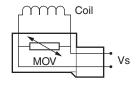
- Standard connectivity for a variety of fluid power applications
- Integral surge protection circuitry (on some models) protect field devices from potentially disruptive current spikes
- Available with power indicating LED option
- Cordsets available in Valve A (18 mm), Valve B (11 mm), and Valve C (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



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	Туре В	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 Cl	Valve Connector Type C



Cordset



a

Product Type		
Code	Description	
V	DIN Valve A style (18 mm)	
W	DIN Value 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	0250V		
D	24V		
Α	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			
В	PVC Cable, Black, Unshielded		
R	PUR Cable, Black, Unshielded		

f

Wire Size		
Code	Description	
D	20 AWG	
Е	18 AWG	

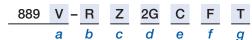
g (Patchcords only)

	<u> </u>	• • • • • • • • • • • • • • • • • • • •	
	Second End Descriptor		
Code Description			
DD	Strai	ght, M12, Male	

h

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

Field Attachable Connectors



a

Product Type		
Code	Description	
V	DIN Valve A style (18 mm)	
W	DIN Value B style (11 mm)	
Υ	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	0250V	
D	24V	
Α	115V	
С	230V	

d

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

е

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

f

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

g

Cable Length			
Code	Description		
Т	Terminal Chamber		





Valve A Cordset

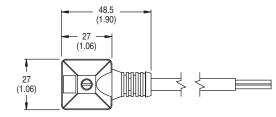
- Conforms to EN 175301-803/DIN 43650
- Black PVC jacket offers good oil and chemical resistance
- Indicating amber LED option
- Available with surge protection circuitry
- 2-pole + dual ground and 3-pole + ground configurations
- DIN to M12 option available

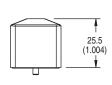
Specifications

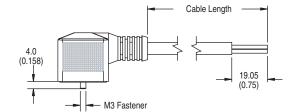
· ·			
Certifications	UL Recognized and CSA Certified		
Mechanical			
Housing Material	Molded oil-resistant PUR (NonLED version: black, LED version: clear)		
Gasket Material	Nitrile		
Contact Material	Tin-plated copper		
Mounting Screw	18-8 Stainless Steel		
Cable Type	Oil-resistant black PVC jacket, 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: 0250V 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

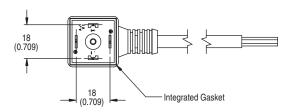
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.













Cordsets & Patchcords, DIN Valve Style

Pinout

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

Product Selection

Cordsets

Pinout	Color Code	Wiring	Voltage	Orientation	Cat. No.
	Brown, Blue, Green/Yellow	Straight Wired	0250V AC/DC		889V-RZ2DBE-2
					889V-RZ2DBE-5
					889V-RZ2DBE-10
		LED & Varistor Surge Suppression	24V AC/DC		889V-LD2DBE-2
2-pole + dual ground				N/A	889V-LD2DBE-5
					889V-LD2DBE-10
			115V AC/DC		889V-LA2DBE-2
					889V-LA2DBE-5
					889V-LA2DBE-10
	Brown, Blue, Black, Green/Yellow	Straight Wired	0250V AC/DC	Ground Toward Cable Exit	889V-RZ3GBE-2
					889V-RZ3GBE-5
O mala i avaijad					889V-RZ3GBE-10
3-pole + ground				Ground Away from Cable Exit	889V-RZ3ABE-2
					889V-RZ3ABE-5
					889V-RZ3ABE-10

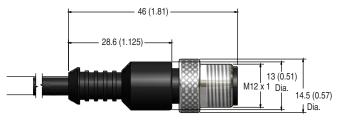
Note: 20 AWG PUR DIN valve cordsets may be ordered by replacing BE with RD (i.e., 889V-LA2DRD-2).

Patchcords

Pinout	Wire Size, AWG	Jacket Material	Wire Type	Voltage	Orientation	Cat. No.∗
	20	PVC	Standard	0120V	N/A	889V-RZ2DBDD-2
2-pole + dual ground			LED & MOV	24V	N/A	889V-LD2DBDD-2
			LED & MOV	120V	N/A	889V-LA2DBDD-2
O mala i gravad			Standard	0120V	N/A	889V-RZ3GBDD-2
3-pole + ground			Standard	0120V	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





Valve B Cordset

Features

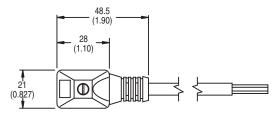
- Conforms to EN 175301-803/DIN 43650
- Black PVC jacket offers good oil and chemical resistance
- Indicating amber LED option
- Available with surge protection circuitry
- 2-pole and ground configurations
- DIN to M12 option available

Specifications

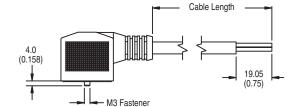
•		
Certifications	UL Recognized and CSA Certified	
Mechanical		
Housing Material	Molded oil-resistant PUR (NonLED version: black, LED version: clear)	
Gasket Material	Nitrile	
Contact Material	Tin-plated copper	
Mounting Screw	18-8 Stainless Steel	
Cable Type	Oil-resistant PVC jacket, 18 AWG conductor, 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: 0250V 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

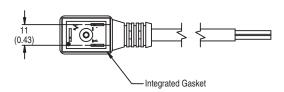
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.











	Face View Pinout		
2-F	2-Pin		
Ground Toward Cable Exit	Ground Away from Cable Exit		
		1 3	3
		Female	Male
1 D	own		Brown
2 Bi	2 White		
GND Yellov		3 Blue 4 Black	
	v a dicon		Grey

Product Selection

Cordsets

Pinout	Color Code	Cable Type	Wiring	Voltage	Orientation	Cat. No.
						889W-RZ2GBE-2
				Ground Toward Cable Exit	889W-RZ2GBE-5	
			Straight Wired	0250V AC/DC	Cubio Exit	889W-RZ2GBE-10
			Straight Whed	0250V AG/DG		889W-RZ2ABE-2
					Ground Away from Cable Exit	889W-RZ2ABE-5
					Cubio Exit	889W-RZ2ABE-10
	Brown, Blue,		i Black PVC 24V AC/DC LED & Varistor Surge			889W-LD2GBE-2
				Ground Toward Cable Exit	889W-LD2GBE-5	
O mala i avaijad					889W-LD2GBE-10	
2-pole + ground	Green/Yellow			24V AC/DC	Ground Ground Away from Cable	889W-LD2ABE-2
						889W-LD2ABE-5
					Exit	889W-LD2ABE-10
			Suppression			889W-LA2GBE-2
					Ground Toward Cable Exit	889W-LA2GBE-5
				11EV AC/DC	Odbie Exit	889W-LA2GBE-10
				115V AC/DC	Ground Ground Away from Cable	889W-LA2ABE-2
						889W-LA2ABE-5
					Exit	889W-LA2ABE-10

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	Standard	Ot and and	0120V		889W-RZ2GBDD-2	
		01200	N1/A	889W-RZ2ABDD-2		
	PVC -	LED & MOV	24V	N/A	889W-LD2ABDD-2	
			120V		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







Valve C Cordset

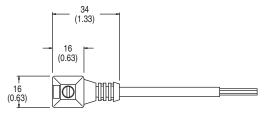
Features

- 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

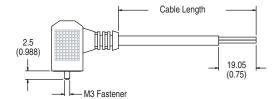
Specifications

opoomodiono	
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: 0250V 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°)

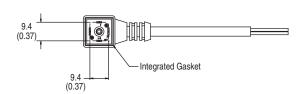
Approximate Dimensions













Face Vie	w Pinout	
2-Pin	5-	-Pin
Dual Ground		
	1 Semale	5 2 1 Male
1 Brown 2 Blue GND Yellow & Green	1 B 2 V 3 I	rown White Blue Black
GND Tellow & Green		Grey

Product Selection

Cordsets

Pinout	Color Code	Cable Type	Wiring	Voltage	Cat. No.
					889Z-RZ2DBD-2
			Straight Wired	0250V AC/DC	889Z-RZ2DBD-5
					889Z-RZ2DBD-10
			LED & Varistor Surge Suppression	24V AC/DC	889Z-LD2DBD-2
2-pole + dual ground	Brown, Blue, Green/Yellow	20 AWG Black PVC			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	0120V	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



Field Attachable, DIN Valve Style

DIN Valve A (18 mm)



Valve A

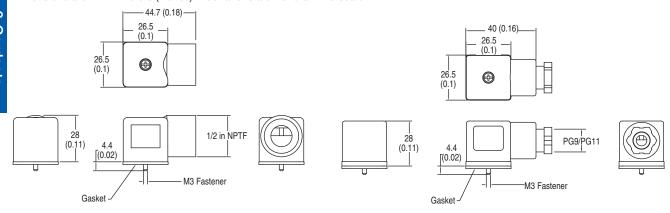
Specifications

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: 0250V, 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°)

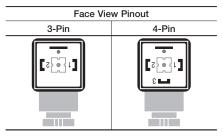
Features

- 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







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.∗
			PG9	5.998.0 (0.2360.315)	889V-RZ2GCF-T
	Straight Wired	0250V, 10 A	PG11	8.09.9 (0.3150.39)	889V-RZ2GFF-T
			1/2 inch-NPTF	10.4 (0.41) max.	889V-RZ2GNF-T
			PG9	5.998.0 (0.2360.315)	889V-LD2GCF-T
		24V, 10 A	PG11	8.09.9 (0.3150.39)	889V-LD2GFF-T
O male , greened			1/2 inch-NPTF	10.4 (0.41) max.	889V-LD2GNF-T
2-pole + ground		rge 115V, 10 A	PG9	5.998.0 (0.2360.315)	889V-LA2GCF-T
	LED & Varistor Surge Suppression		PG11	8.09.9 (0.3150.39)	889V-LA2GFF-T
	Ouppression		1/2 inch-NPTF	10.4 (0.41) max.	889V-LA2GNF-T
			PG9	5.998.0 (0.2360.315)	889V-LC2GCF-T
		230V, 10 A	PG11	8.09.9 (0.3150.39)	889V-LC2GFF-T
			1/2 inch-NPTF	10.4 (0.41) max.	889V-LC2GNF-T
			PG9	5.998.0 (0.2360.315)	889V-RZ3GCF-T
3-pole + ground	Straight Wired	0250V, 10 A	PG11	8.09.9 (0.3150.39)	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.

Field Attachable, DIN Valve Style

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



Valve B & BEU

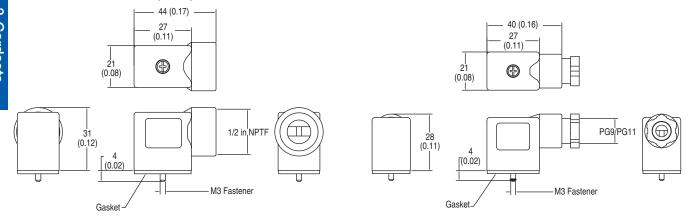
Specifications

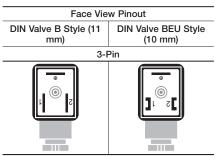
Mechanical	
Connector Shell Material	Polyamid Nylon 6
Gasket Material	Nitrile
Mounting Screw	Zinc-plated steel
No. of Main Contacts	2 + ground
Cable Type	Connector accepts 14 AWG max.
Electrical	
Assembly Rating	Straight Wire: 0250V, 10 A LED & Varistor surge suppression: 24V, 115V or 230V, 10 A
Environmental	
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





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.∗
	Straight Wired	0250V	PG9	5.998.0 (0.2360.315)	889W-RZ2GCF-T
			1/2 inch NPTF	10.4 (0.41) max.	889W-RZ2GNF-T
2-pole + ground		24V			889W-LD2GCF-T
LED & Varistoi Suppressi	LED & Varistor Surge		PG9	5.998.0 (0.2360.315)	889W-LA2GCF-T
	Оприсозин	230V		(0.2000.010)	889W-LC2GCF-T

DIN Valve BEU Style (10 mm)

Pinout	Wiring	Assembly Rating	Thread Size	Accepts Outer Cable Diameter [mm (in.)]	Cat. No.∗
	Straight Wired	0250V			889Y-RZ2GCF-T
O male , greened	LED & Varistor Surge Suppression	24V	PG9	5.998.0	889Y-LD2GCF-T
2-pole + ground LE[115V		(0.2360.315)	889Y-LA2GCF-T
		230V			889Y-LC2GCF-T

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

Field Attachable, DIN Valve Style

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



Valve C & CEU

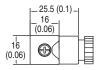
Features

- 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

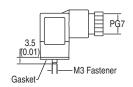
Specifications

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









Face View Pinout							
DIN Valve C S	Style (9.4 mm)	DIN Valve CEU	J Style (8 mm)				
3-Pin	4-Pin	3-Pin	4-Pin				
□ ⊕ 2 ⊚ 1	[10] I						

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.∗
	Straight Wired	250V AC/300V DC	PG7		889Z-RZ2GDE-T
2-pole + ground	LED & Varistor Surge	24V		3.985.99	889Z-LD2GDE-T
	Suppression	115V		(0.1570.236)	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.*
	Straight Wired	250V AC/300V DC	PG7		889S-RZ2GDE-T
2-pole + ground	LED & Varistor Surge Suppression	24V		3.985.99 (0.1570.236)	889S-LD2GDE-T
		115V			889S-LA2GDE-T
		230V		(0.1070.200)	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.



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

Recentacles	3-156





4-Pin IDC Receptacle

Features

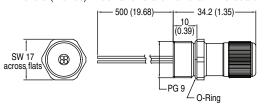
- Field installable with no hand tools needed
- 24...22 AWG conductors
- 4-pin configuration
- PG 9
- Viton® o-ring
- Allows easy modification of existing cable installations
- Insulation displacement technology for secure and reliable installation

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.)]	2422 AWG, 1.62.0 (0.0630.079)
Cable Diameter	1.21.6 (0.0470.063)
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°)

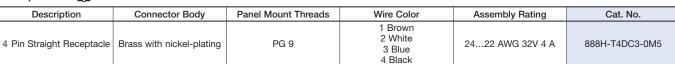
Approximate Dimensions

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



Product Selection

Receptacles





Description

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	3-15
PUR & TPE Cable Spools	3-159





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.∗
	2	Brown, Blue	Yellow	22	5.3 mm (0.21 in.)	None	889-C2AC-S50
		Brown, Blue, Black	Yellow	22	5.3 mm (0.21 in.)	None	889-C3AC-S50
	3	Green, Red	Yellow	22	6.7 mm (0.26 in.)	Braided	889-C3ECA-S50
		w/Black stripe, Red w/White stripe	Yellow	18	6.7 mm (0.26 in.)	None	889-C3AEA-S50
			Yellow	22	5.3 mm (0.21 in.)	None	889-C4AC-S50
			Black	22	5.3 mm (0.21 in.)	None	889-C4BC-S50
		Brown, White, Blue,	Blue	22	5.3 mm (0.21 in.)	None	889-C4LC-S50
		Black	Yellow	22	6.7 mm (0.26 in.)	Braided	889-C4EC-S50
	4		Yellow	18	6.7 mm (0.26 in.)	None	889-C4AE-S50
			Yellow	22	5.5 mm (0.22 in.)	Foil	889-C4FC-S50
		Green, Red w/Black stripe, Red w/White stripe, Red	Yellow	22	6.7 mm (0.26 in.)	Braided	889-C4ECA-S50
PVC			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
	5	Green, Red	Yellow	22	6.7 mm (0.26 in.)	None	889-C5ECA-S50
		w/Black stripe, Red w/White stripe, Red, Red w/Yellow stripe	Yellow	18	6.7 mm (0.26 in.)	None	889-C5AEA-S50
	6	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.





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
- Yellow cable jackets provide high degrees of oil and chemical resistance
- TPE jacket provides weld-slag resistance

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°)

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		22	5.2 mm (0.21 in.)		*	889-C4UC-S50
FUN	5	Brown, White, Blue, Black, Grey	V-II	22	5.2 mm (0.21 in.)	None	*	889-C5UC-S50
TPE	4	Brown, White, Blue, Black	Yellow	18	7.0 mm (0.28 in.)		*	889-C4HJ-S50
TPE ToughLink™	4	Brown, White, Blue, Black		10	_	_	*	889-C4HKC-SC5

^{*} 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.

Sealing Caps



Mini and MIcro Cap

	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 in16 UN 2 A Threads Gasket	1485A-C1	Internal, female	7/8 in16 UN 2 B Threads Gasket	889A-NCAP
Mini-Plus (7- and 8-pin)	Aluminum	External	1 inch-16 UN 2 A Threads Gasket	889A-NM2CAP	Internal	1 inch-16 UN 2B threads Gasket	889A-N2CAP
Mini-Plus (9-, 10-, and 12- pin)	Aluminum	External	1 1/8 inch-16 UN 2 A Threads Gasket	889A-NM3CAP	Internal	1 1/8 inch-16 UN 2 B Threads Gasket	889A-N3CAP
DC Micro	Aluminum	External	M12 x 1 Threads	1485A-C3	Internal	M12 x 1 Threads Gasket	889A-DCAP
	Plastic		M12x1 Threads	1485A-M12	_	_	_
AC Micro	Aluminum	External	1/2 inch UNF threads 7	889A-RMCAP	Internal	1/2 inch UNF Threads Gasket	889A-RCAP
Pico	Plastic	External	M8 x 1 threads	889A-PMCAP	I	_	_
M23	Nickel-plated brass	External	M23 x 1 external thread	889A-MMCAP	Internal	M23 x 1 internal thread	889A-MCAP

Coupling Adaptors



Connector Style	Material	Approximate Dimensions [mm (in.)]	Cat. No.
Mini	Aluminum	7/8 in16 UN 2 A threads	889A-NADPT
Mini-Plus (7- and 8-pin)		1-16UN-2 A thread	889A-N2ADPT
Mini-Plus (9-, 10-, and 12-pin)		1 1/8 in16 UN 2 A threads	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