

DC Micro Style



4-Pin DC Micro Cordset

Features

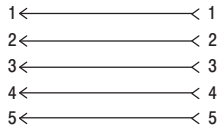
- Ratcheting coupling nut
- Subtle black or highly visible yellow PVC jacket offers good oil and chemical resistance
- Blue jacket models for intrinsically safe applications
- “-Q” models specifically wired for Quadroplex applications.
- “-V” models allow wiring of devices using pin 2 for output into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

Specifications

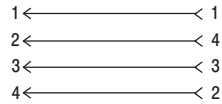
Certifications	UL recognized and CSA certified
Mechanical	
Coupling Nut	Epoxy-Coated Zinc
Material	Molded oil-resistant PUR
Contacts	Gold over nickel-plated brass
Cable	Oil-resistant PVC jacket, 18AWG or 22AWG conductors, 300V, UL recognized and CSA certified
Bend Radius	10x diameter
Cable Diameter	2/c = 5 mm (0.21 in) 3/c = 5 mm (0.21 in) 4/c = 5 mm (0.21 in) 5/c = 6.5 mm (0.25 in) 4/c (18AWG) = 6.5 mm (0.25 in)
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	IP 67, NEMA 6P, 1200 psi (8270 kPa) washdown
Operating Temperature—C (F)	-20...+105° (-4...+221°)

Wiring Diagrams

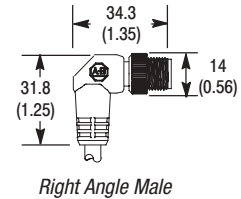
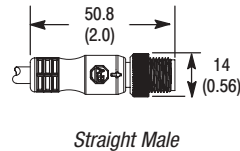
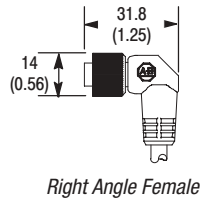
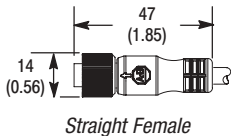
Standard Models



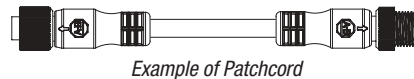
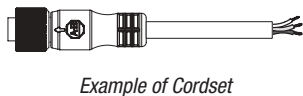
889D-*4ACD*-V* Models



Dimensions—mm (in)



Dimensions are approximate. Illustrations are not drawn to scale.



Connection Systems

Cordsets and Patchcords, DC Micro Style

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

Pinout and Color Code

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

Product Selection

Cordsets

Pin Count	Color Code	Jacket Color	Wire Gauge	Cat. No.			
				Straight Female	Right Angle Female	Straight Male	Right Angle Male
2-Pin	A	Yellow	22 AWG	889D-F2AC-*	889D-R2AC-*	889D-M2AC-*	889D-E2AC-*
	B	Black		889D-F2BC-Q*	889D-R2BC-Q*	—	—
3-Pin	A	Yellow	22 AWG	889D-F3AC-*	889D-R3AC-*	889D-M3AC-*	889D-E3AC-*
4-Pin	A	Yellow	18 AWG	889D-F4AC-*	889D-R4AC-*	889D-M4AC-*	889D-E4AC-*
	A	Yellow	18 AWG	889D-F4AE-*	889D-R4AE-*	889D-M4AE-*	889D-E4AE-*
	A	Black	22 AWG	889D-F4BC-*	889D-R4BC-*	889D-M4BC-*	889D-E4BC-*
5-Pin	A	Blue	22 AWG	889D-F4LC-*	889D-R4LC-*	889D-M4LC-*	889D-E4LC-*
	A	Yellow	22 AWG	889D-F5AC-*	889D-R5AC-*	889D-M5AC-*	889D-E5AC-*
	A	Black	22 AWG	889D-F5BC-*	889D-R5BC-*	889D-M5BC-*	889D-E5BC-*

Patchcords

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

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

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

★ See Wiring Diagrams.

Note: Stainless steel connectors may be ordered by adding an "S" to the bulletin number (e.g. 889DS-F4AC-*).

DC Micro Style



4-Pin DC Micro Cordset

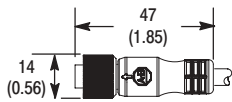
Features

- 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

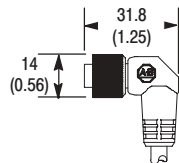
Specifications

Certifications	UL recognized and CSA certified
Mechanical	
Coupling Nut	Epoxy-Coated Zinc
Material	Molded oil-resistant PUR
Contacts	Gold over nickel-plated brass
Cable	Yellow oil-resistant PVC jacket, 22AWG conductors, 300V, UL recognized and CSA certified
Bend Radius	10x diameter
Cable Diameter	4/c = 5 mm (0.21 in) 5/c = 6.5 mm (0.25 in)
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	IP 67, NEMA 6P, 1200 psi (8270 kPa) washdown
Operating Temperature—C (F)	-20...+105° (-4...+221°)

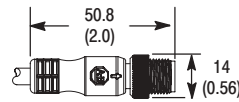
Dimensions—mm (in)



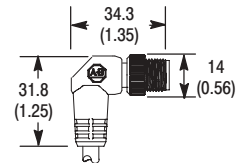
Straight Female



Right Angle Female

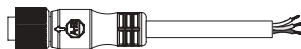


Straight Male

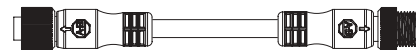


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset



Example of Patchcord

Pinout and Color Code

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

Product Selection

Cordsets

Pin Count	Color Code	Shield	Wire Gauge	Cat. No.			
				Straight Female	Right Angle Female	Straight Male	Right Angle Male
4-Pin	A	Braided Shield	22 AWG	889D-F4EC-*	889D-R4EC-*	889D-M4EC-*	889D-E4EC-*
	A	Foil Shield		889D-F4FC-*	889D-R4FC-*	889D-M4FC-*	889D-E4FC-*
	B			889D-F5FC-J*	889D-R5FC-J*	889D-M5FC-J*	889D-E5FC-J*
5-Pin	A	Braided Shield		889D-F5EC-*	889D-R5EC-*	889D-M5EC-*	889D-E5EC-*

Patchcords

Pin Count	Color Code	Shield	Wire Gauge	Cat. No.			
				Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
4-Pin	A	Braided Shield	22 AWG	889D-F4ECDM-‡	889D-F4ECDE-‡	889D-R4ECDM-‡	889D-R4ECDE-‡
	A	Foil Shield		889D-F4FCDM-‡	889D-F4FCDE-‡	889D-R4FCDM-‡	889D-R4FCDE-‡
	B			889D-F5FCDM-J‡	889D-F5FCDE-J‡	889D-R5FCDM-J‡	889D-R5FCDE-J‡
5-Pin	A	Braided Shield		889D-F5ECDM-‡	889D-F5ECDE-‡	889D-R5ECDM-‡	889D-R5ECDE-‡

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

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

Note: Stainless steel connectors may be ordered by adding an "S" to the bulletin number (e.g. [889DS-F4EC-*](#)).

Connection Systems
Cordsets and Patchcords, DC Micro Style

18 AWG & 22 AWG, PUR, TPE, or TPR

DC Micro Style



4-Pin DC Micro Cordset

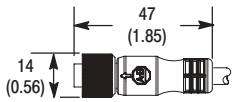
Features

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

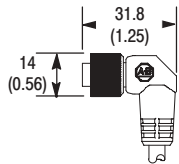
Specifications

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

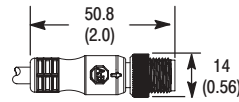
Dimensions—mm (in)



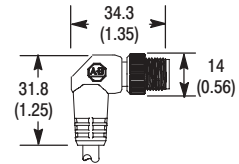
Straight Female



Right Angle Female

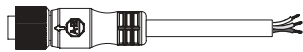


Straight Male

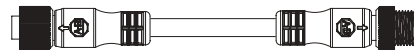


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.

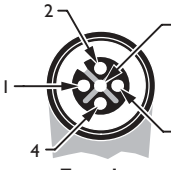
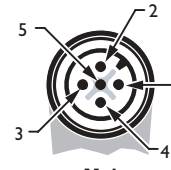
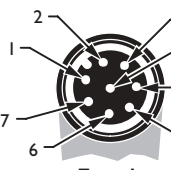
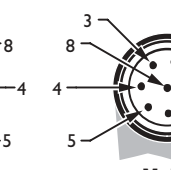


Example of Cordset



Example of Patchcord

Pinout and Color Code

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

Product Selection

Cordsets 

Pin Count	Cable Type	Assembly Rating	Color Code	Cat. No.			
				Straight Female	Right Angle Female	Straight Male	Right Angle Male
4-Pin	TPE	18 AWG, 250V, 4 A	A	889D-F4HJ-*	889D-R4HJ-*	889D-M4HJ-*	889D-E4HJ-*
			A	889D-F4HL-*	889D-R4HL-*	889D-M4HL-*	889D-E4HL-*
5-Pin	PUR	22 AWG, 250V, 4 A	A	889D-F4UC-*	889D-R4UC-*	889D-M4UC-*	889D-E4UC-*
			A	889D-F5UC-*	889D-R5UC-*	889D-M5UC-*	889D-E5UC-*
8-Pin	TPR	24 AWG 300V AC/ 36V DC 1.5 A	A	889D-F8AC-*	—	—	—
			B	889D-F8AB-*	889D-R8AB-*	889D-M8AB-*	—

Patchcords 

Pin Count	Cable Type	Assembly Rating	Cat. No.			
			Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right-Angle Male
4-Pin	TPE	18 AWG, 250V, 4 A	889D-F4HJDM-‡	889D-F4HJDE-‡	889D-R4HJDM-‡	889D-R4HJDE-‡
			889D-F4HLDM-‡	889D-F4HLDE-‡	889D-R4HLDM-‡	889D-R4HLDE-‡
5-Pin	PUR	22 AWG, 250V, 4 A	889D-F4UCDM-‡	889D-F4UCDE-‡	889D-R4UCDM-‡	889D-R4UCDE-‡
			889D-F5UCDM-‡	889D-F5UCDE-‡	889D-R5UCDM-‡	889D-R5UCDE-‡
8-Pin	PUR	24 AWG 300V AC/ 36V DC 1.5 A	889D-F8ABDM-‡	—	—	—

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

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

Note: Stainless steel connectors may be ordered by adding an "S" to the bulletin number (e.g. [889DS-F4HJ-*](#))

DC Micro Style



4-Pin DC Micro Cordset

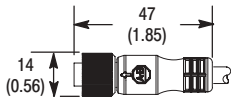
Features

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

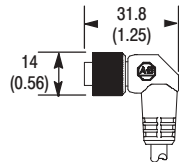
Specifications

Certifications	UL recognized and CSA certified
Mechanical	
Coupling Nut	Epoxy-coated zinc
Material	Molded oil-resistant santoprene body
Contacts	Gold over nickel-plated brass
Cable	Allen-Bradley ToughLink TPE or ToughWeld CPE yellow jacket, 18 AWG or 22 AWG conductors, 300V; UL recognized and CSA certified
Bend Radius	10x diameter
Cable Diameter	ToughLink: 8 mm (0.32 in); ToughWeld: 9 mm (0.35 in)
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	IP 67, NEMA 6P, 1200 psi (8270 kPa) washdown
Operating Temperature—C (F)	ToughLink: -40...+105° (-40...+221°) ToughWeld: -20...90° (-4...+194°)

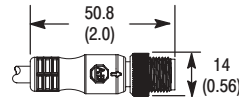
Dimensions—mm (in)



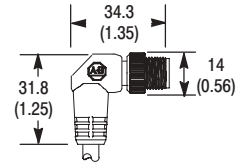
Straight Female



Right Angle Female

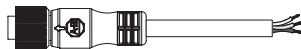


Straight Male

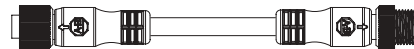


Right Angle Male

Dimensions are approximate. Illustrations are not drawn to scale.



Example of Cordset



Example of Patchcord

Pinout and Color Code

Face View Pinout					
4-Pin					
Color Code					
	<p>Female Male</p>				
A	<table> <tr> <td>1 Brown</td> <td>3 Blue</td> </tr> <tr> <td>2 White</td> <td>4 Black</td> </tr> </table>	1 Brown	3 Blue	2 White	4 Black
1 Brown	3 Blue				
2 White	4 Black				

Product Selection

Cordsets

Pin Count	Material	Assembly Rating	Color Code	Cat. No.			
				Straight Female	Right Angle Female	Straight Male	Right Angle Male
4-Pin	ToughLink (TPE)	22 AWG 250V 3 A	A	889D-F4HC-*	889D-R4HC-*	889D-M4HC-*	889D-E4HC-*
	ToughWeld (CPE)	18 AWG 250V 3 A	A	889D-F4WE-*	889D-R4WE-*	—	—

Patchcords

Pin Count	Material	Assembly Rating	Cat. No.			
			Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
4-Pin	ToughLink (TPE)	22 AWG 250V 3 A	889D-F4HCDM-‡	889D-F4HCDE-‡	889D-R4HCDM-‡	889D-R4HCDE-‡
	ToughWeld (CPE)	18 AWG 250V 3 A	889D-F4WEDM-‡	889D-F4WEDE-‡	889D-R4WEDM-‡	—

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

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

DC Micro Style



4-Pin DC Micro Cordset

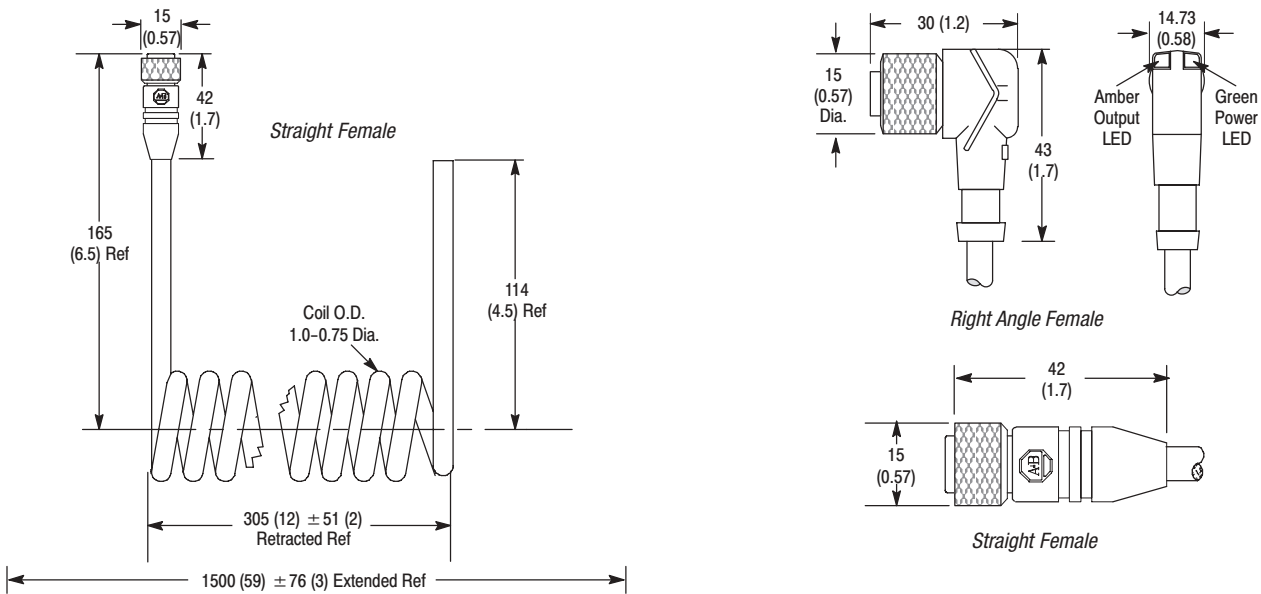
Features

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

Specifications

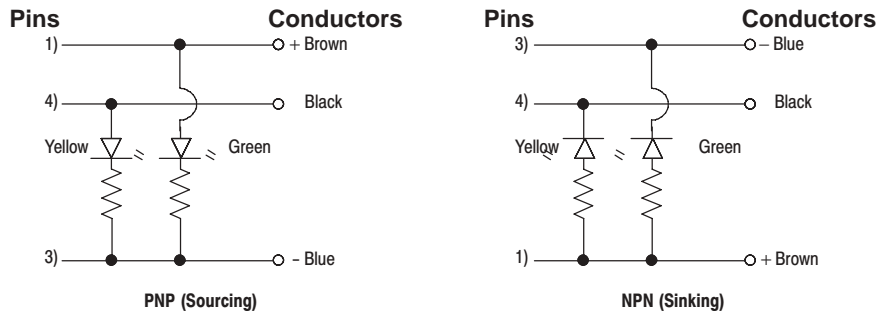
Certifications	UL recognized and CSA certified
Mechanical	
Coupling Nut	Epoxy-coated zinc
Material	Molded oil-resistant PVC
Contacts	Gold over nickel-plated brass
Cable	Oil-resistant yellow PVC jacket, 20AWG or 22 AWG stranded copper, 300V, UL recognized and CSA certified
Bend Radius	10x diameter
Cable Diameter	LED: 5 mm (0.2 in); Coiled: 7.1 mm (0.28 in)
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	250V, 4 A
Environmental	
Enclosure Type Rating	IP 67, NEMA 6P
Operating Temperature—C (F)	-20...+105° (-4...+221°)

Dimensions—mm (in)

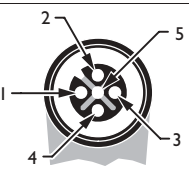


Dimensions are approximate. Illustrations are not drawn to scale.

Wiring Diagrams



Pinout and Color Code

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

Product Selection

LED Cordsets

Cable				Cat. No.	
Pin Count	Assembly Rating	Color Code	Output Style	Straight Female	Right Angle Female
4-Pin	22 AWG 250V 4 A	A	PNP	889D-B4AC*	889D-P4AC*
			NPN	889D-A4AC*	889D-N4AC*

Coiled Cordsets

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

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

Note: PNP cable used with PNP sensor output.
 NPN cable used with NPN sensor output.

Pinout

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

Product Selection

Patchcords

Style: Female to Male	Pinout	Assembly Rating	Cat. No.			
			Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
3-Pin Pico to 4-Pin Micro	A	24 AWG 60V AC/75V DC 3 A	889P-F3ABDM4*	889P-F3ABDE4*	889P-R3ABDM4*	889P-R3ABDE4*
4-Pin Pico to 4-Pin Micro	B		889P-F4ABDM*	889P-F4ABDE*	—	—
4-Pin Micro to 3-Pin Pico	C		889D-F4ABP3M*	889D-F4ABP3E*	889D-R4ABP3M*	889D-R4ABP3E*

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