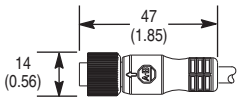
4-Pin AC Micro Cordset

Specifications

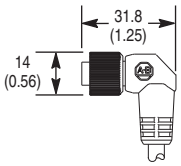
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Housing Material	Molded oil-resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant grey PVC jacket, 18 or 22 AWG conductors, 300V UL Listed and CSA Certified
Bend Radius	10x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

Approximate Dimensions

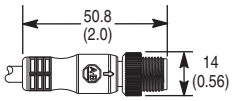
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



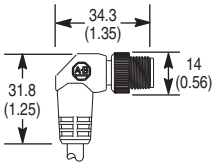
Straight Female



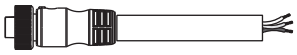
Right Angle Female



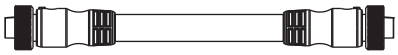
Straight Male



Right Angle Male

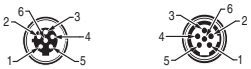


Example of Cordset



Example of Cordset

Pinout and Color Code

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

3-Pin AC Micro Cordset

Pinout and Color Code

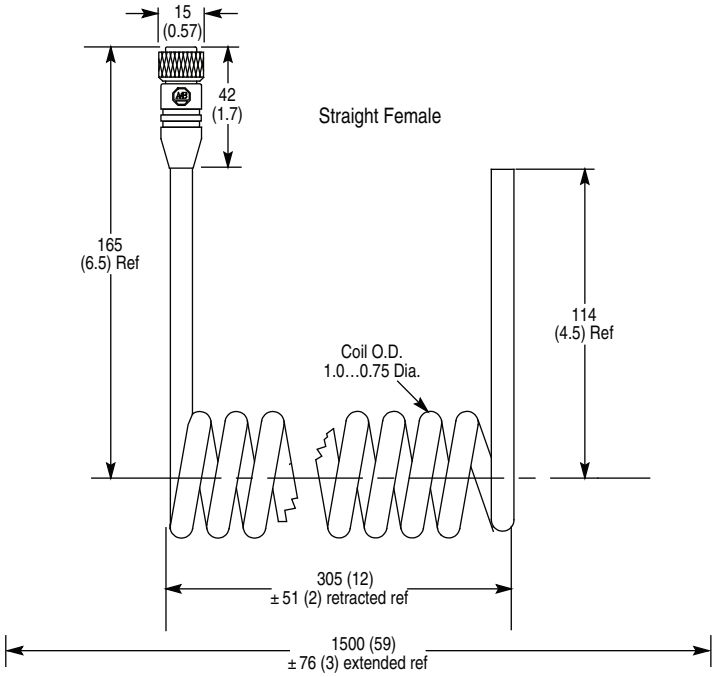
Color Code	Face View Pinout	
	4-Pin	
	Female	Male
A	1 Black 2 Blue	3 Brown 4 White
B	1 Red/Black Tr. 2 Red/White Tr.	3 Red 4 Green (GND)

Specifications

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

Approximate Dimensions

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



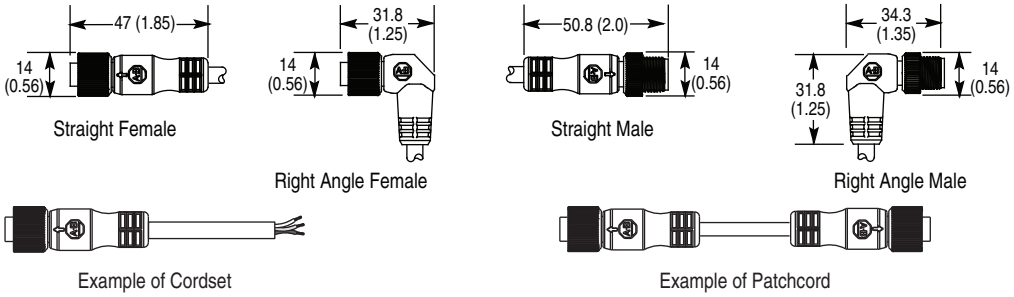
3-Pin AC Micro

Specifications

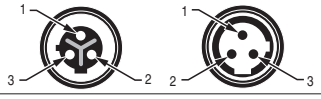
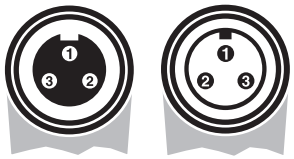
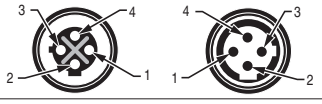
Certifications	UL Recognized and CSA Certified
Electrical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant PVC
Contact Material	Gold over nickel-plated brass
Cable Rating	Unshielded, oil, water, and UV resistant, AWM, 18 AWG
Assembly Rating	250V, 4 A
Environmental	
Enclosure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

Approximate Dimensions

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



Pinout and Color Code

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

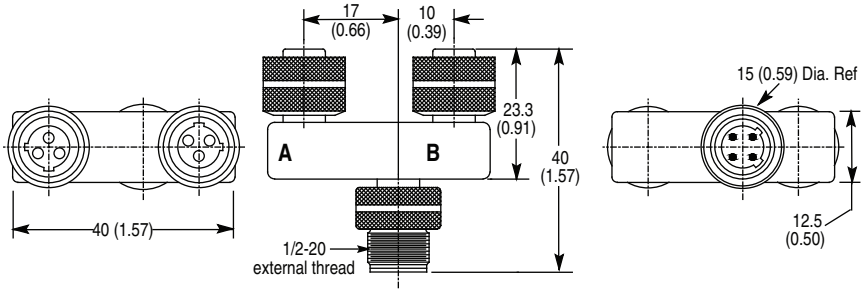
Splitter, AC Micro

Specifications

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

Approximate Dimensions

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



Pinout

Face View Pinout	
3-Pin	**4-Pin**

AC Micro Male Receptacle

Mating Components & Accessories

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

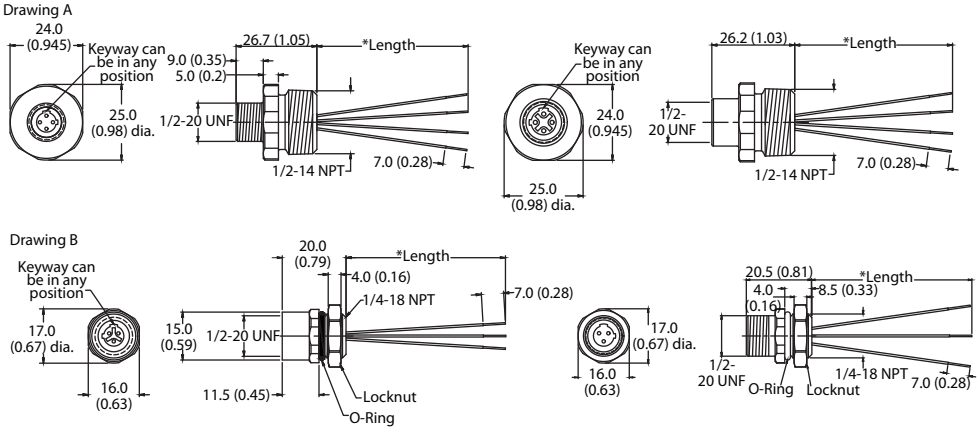
★ Sold in bags of 10.

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Receptacle Shell Material	Brass with nickel
Connector Insert Material	Nylon
Contact Material	Gold-plated 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	NEMA 1, 3, 4, 6P and IEC IP67, IP68, IP69K
Operating Temperature [C (F)]	-40…+105° (-22…+221°)

Approximate Dimensions

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



Pinout and Color Code

Color Code	Face View Pinout							
	3-Pin		4-Pin		5-Pin		6-Pin	
	Female	Male	Female	Male	Female	Male	Female	Male
A	1 Green 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

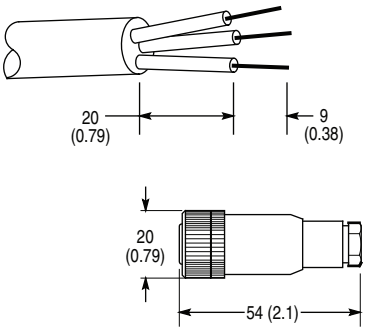
AC Micro Male Receptacle

Specifications

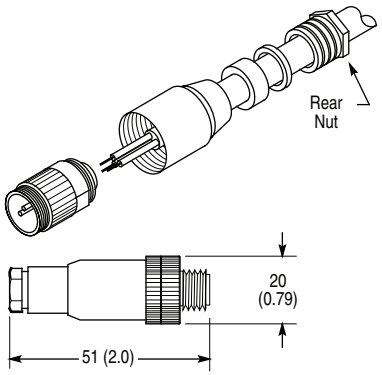
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Insert Material	Nylon
Contact Material	Gold-plated palladium/nickel
Wire Size	18 mm (0.75 in.^{2}) max.
Environmental	
Enclosure Type Rating	IP67 (IEC 529); NEMA 6P
Operating Temperature [C (F)]	-40…+90° (-40…+194°)

Approximate Dimensions

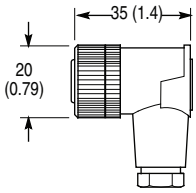
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



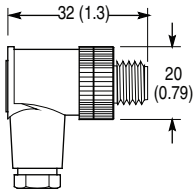
Straight Female



Straight Male



Right Angle Female



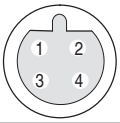
Right Angle Male

Pinout and Color Code

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

4-Pin EAC Micro Cordset

Pinout and Color Code

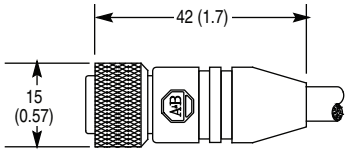
Color Code	Face View Pinout 4-Pin Female 
A	1 Brown 2 Blue 3 Not Used 4 Green/Yellow
B	1 Brown 2 Blue 3 Black 4 Green/Yellow

Specifications

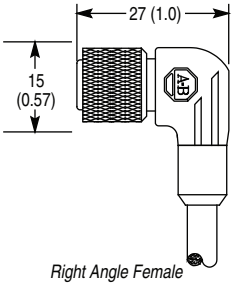
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant polyurethane body
Contact Material	Gold over nickel-plated brass
Cable Type	Yellow oil-resistant PVC jacket, 22 AWG conductors, 300V, UL Recognized and CSA Certified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

Approximate Dimensions

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



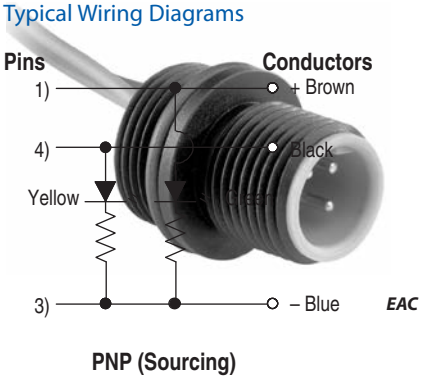
Straight Female



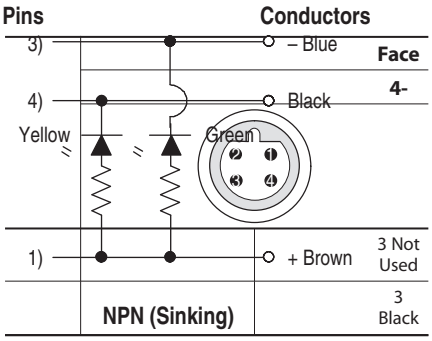
Right Angle Female

Receptacles, EAC Micro Style
22 AWG, M14 Mounting Threads

Typical Wiring Diagrams



PNP (Sourcing)

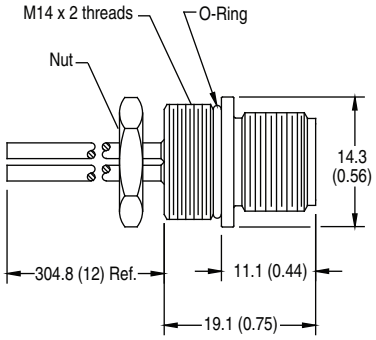


Specifications

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°)

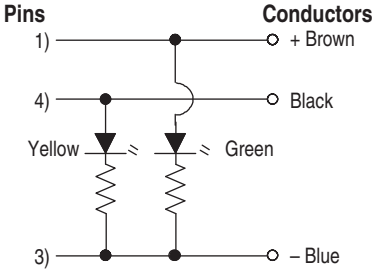
Approximate Dimensions

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

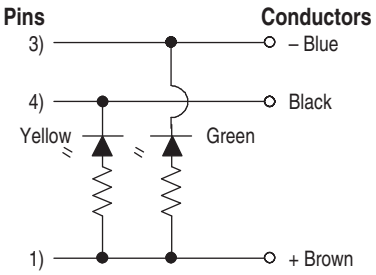


Pico Screw-On Style

Typical Wiring Diagrams



PNP (Sourcing)



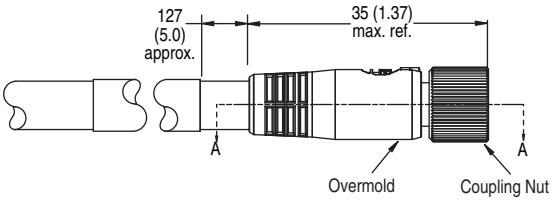
NPN (Sinking)

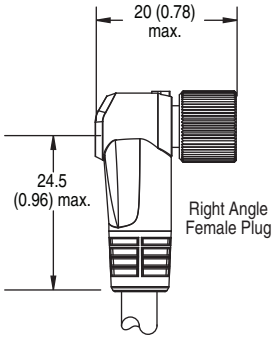
Specifications

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

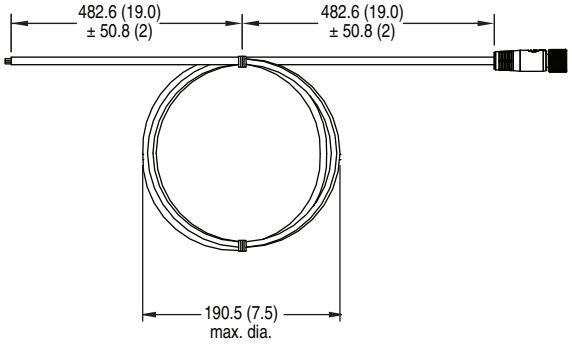
Approximate Dimensions

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





Cable Coiling
(for 2 meter cables and longer)



Pinout and Color Code

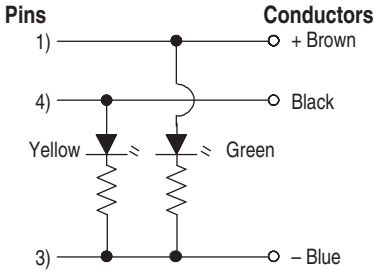
Color Code	Face View Pinout			
	3-Pin		4-Pin	
	Female	**Male**	**Female**	**Male**
A	1 Brown 2 Blue	4 Black	1 Brown 2 White	3 Blue 4 Black

Cordsets & Patchcords, Pico Style

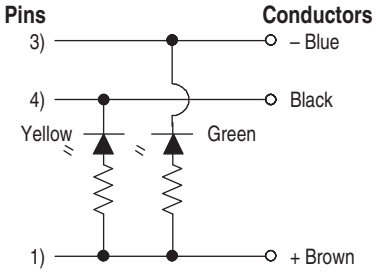
24 AWG, Yellow & Black PVC, TPE, PUR Screw-on

Pico Screw-On Style

Typical Wiring Diagrams



PNP (Sourcing)



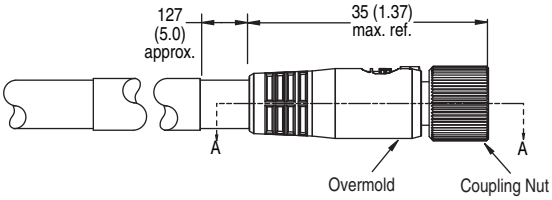
NPN (Sinking)

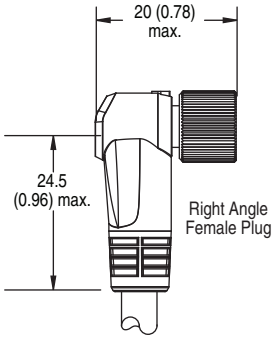
Specifications

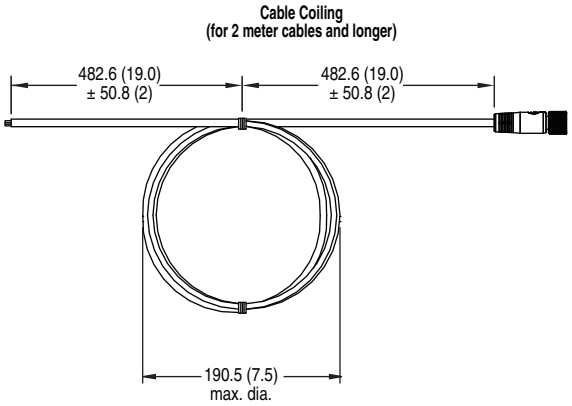
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC or PUR jacket, 24 AWG conductors, 300V, UL Recognized, CSA Certified
Cable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

Approximate Dimensions

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





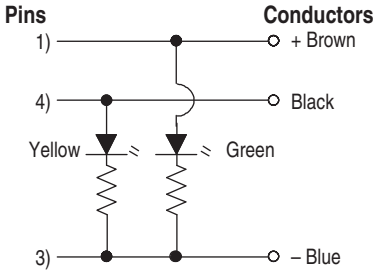


Pinout and Color Code

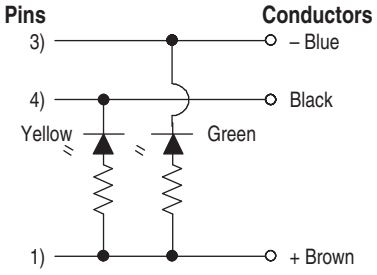
Color Code	Face View Pinout	
	3-Pin	4-Pin
A	1 Brown 2 NA 3 Blue 4 Black	—
B	—	1 Brown 2 White 3 Blue 4 Black

Pico Snap-On Style

Typical Wiring Diagrams



PNP (Sourcing)



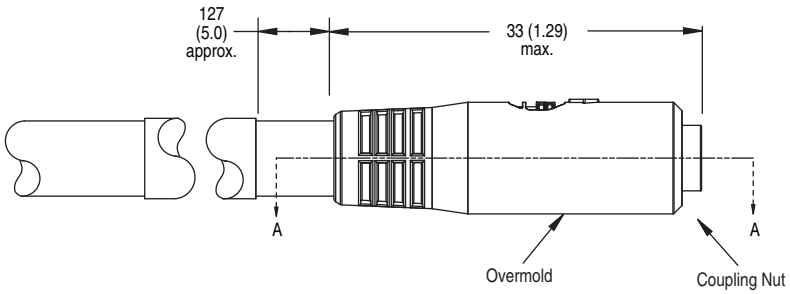
NPN (Sinking)

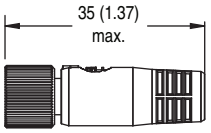
Specifications

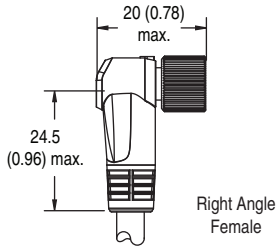
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC or PUR jacket, 24 AWG conductors, 300V, UL Recognized, CSA Certified
Cable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

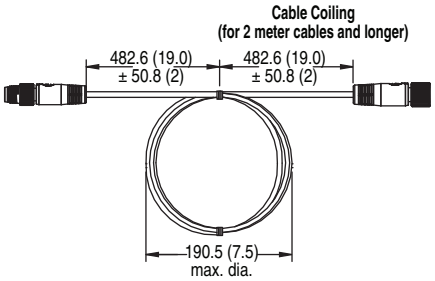
Approximate Dimensions

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









Pinout and Color Code

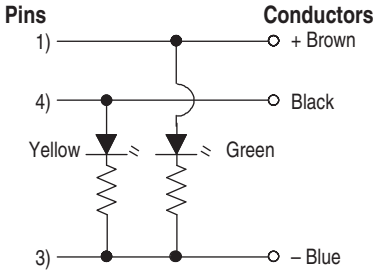
Color Code	Face View Pinout			
	3-Pin		4-Pin	
	Female	Male	Female	Male
A	1 Brown 2 Blue	4 Black	1 Brown 2 White	3 Blue 4 Black

Cordsets & Patchcords, Pico Style

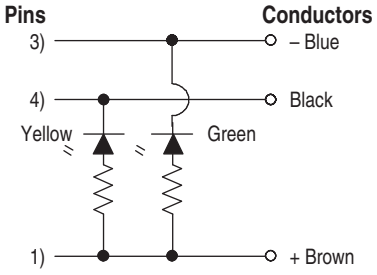
24 AWG, Pico LED and Pico to Micro LED, PUR, PVC, TPE

Pico Screw-On Style

Typical Wiring Diagrams



PNP (Sourcing)

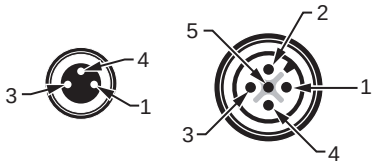


NPN (Sinking)

Specifications

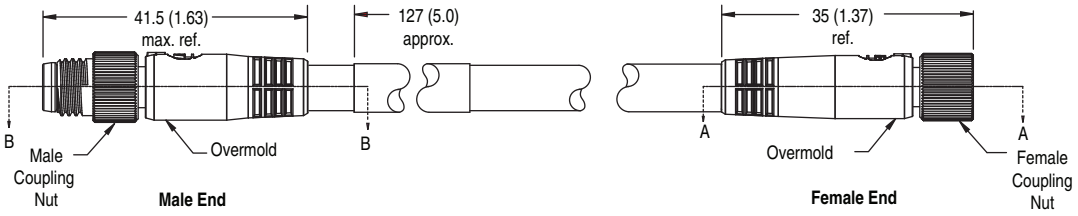
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Material	Molded, oil-resistant, PUR
Contact Material	Gold-plated brass
Cable Type	Oil-, water-, and UV-resistant, 24 AWG conductors, 300V, 4 A, AWM
Cable Diameter [mm (in.)]	3/c = 4.6 (0.18)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

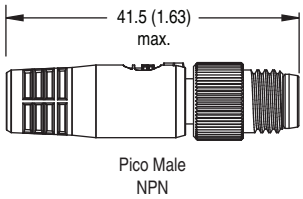
Pinout and Color Code

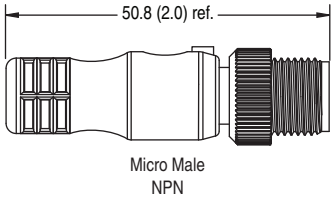
	Face View Pinout			
	3-Pin		4-Pin	
				
Color Code	Female	Male	Female	Male
A	1 Brown 2 Blue	4 Black	1 Brown 2 White	3 Blue 4 Black

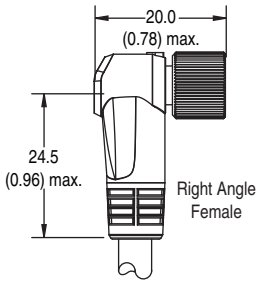
Approximate Dimensions

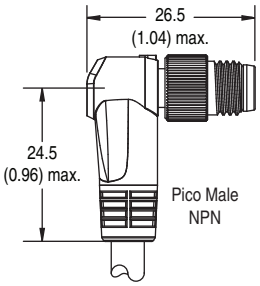
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

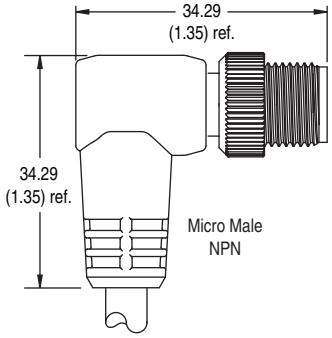


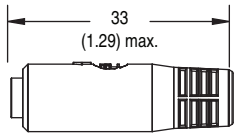


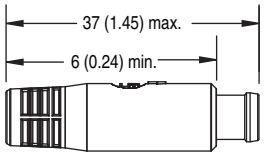


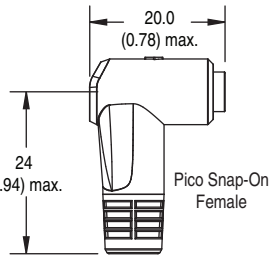


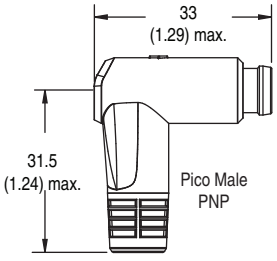


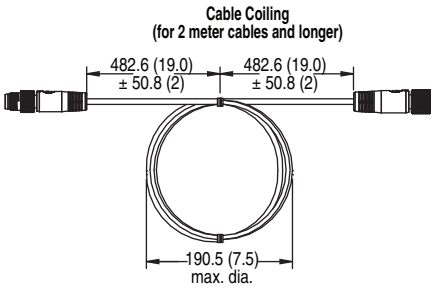










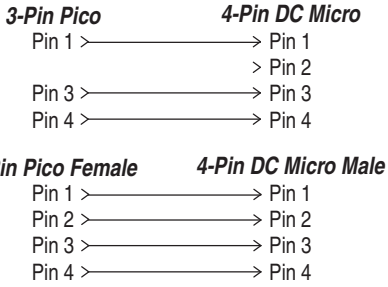


Patchcords, Pico Style

24 AWG, Pico to DC Micro, PVC

DC Micro to Pico Patchcord

Typical Wiring Diagrams

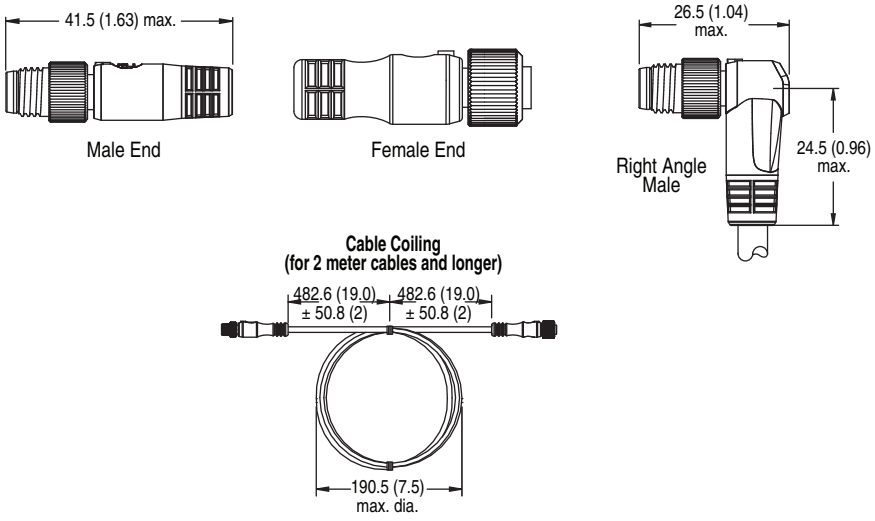


Specifications

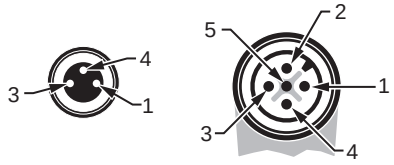
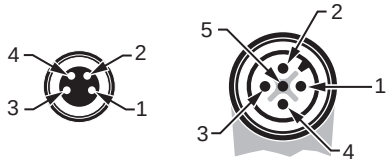
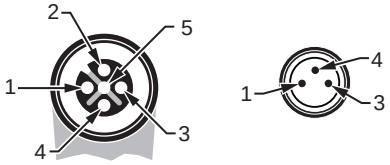
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	DC Micro: Black epoxy-coated zinc; Pico: Nickel-plated brass
Connector Material	DC Micro: Molded oil-resistant PUR; Pico: Molded oil-resistant TPE
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow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

Approximate Dimensions

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

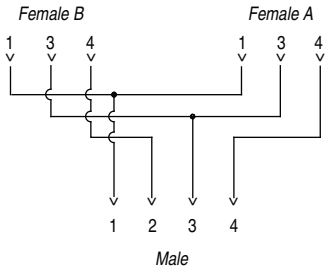


Pinout

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

Pico V-Cables

Typical Wiring Diagrams

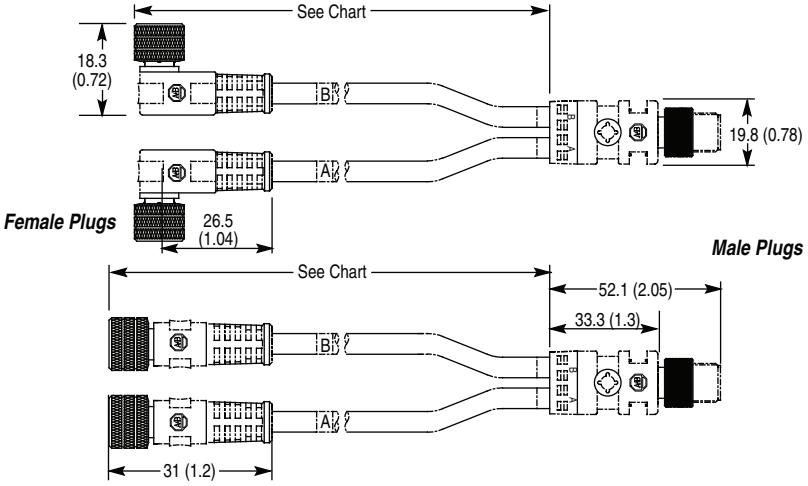


Specifications

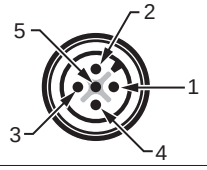
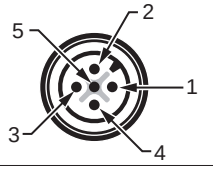
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass (Pico); Epoxy-coated zinc (DC Micro)
Connector Material	Molded TPE
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC jacket, 24 AWG conductors, 300V, UL Recognized, CSA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

Approximate Dimensions

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



Pinout

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

Splitters, Pico Style

Pico to Pico, DC Micro to Pico

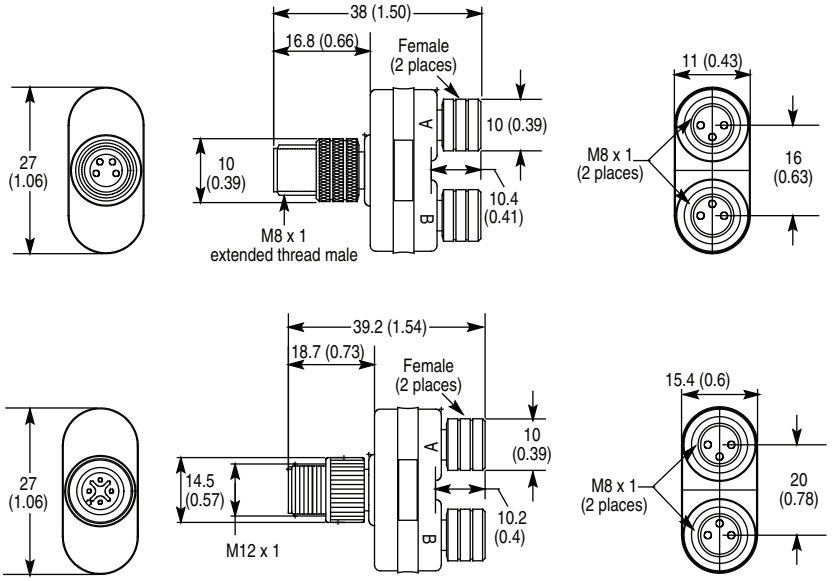
Splitter

Specifications

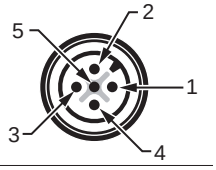
Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Black PUR
Connector Insert Material	PUR
Receptacle Shell Material	Nickel-plated brass
Contact Material	Gold-plated palladium/nickel
O-Ring Material	Viton®
Electrical	
Assembly Rating	60V AC/75V DC, 4 A
Environmental	
Enclosure Type Rating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

Approximate Dimensions

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



Pinout

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

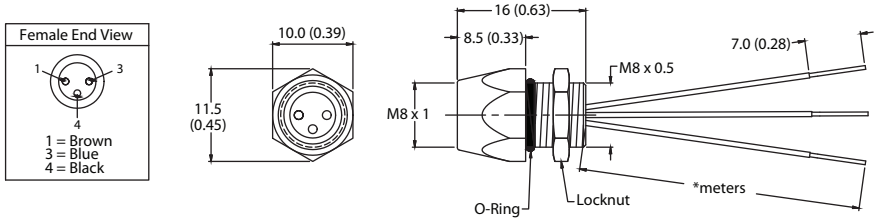
Pico Receptacles

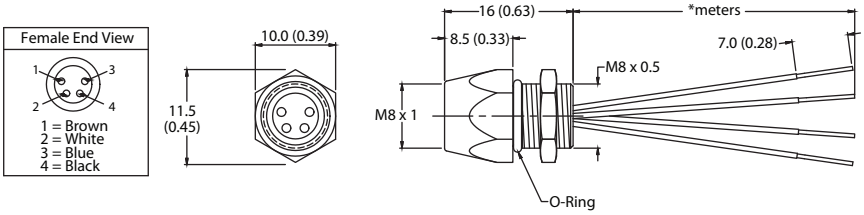
Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Receptacle Shell Material	Nickel-plated brass
Connector Insert Material	Nylon
Contact Material	Gold over nickel-plated brass
Electrical	
Assembly Rating	125V AC/DC, 4.0 A
Environmental	
Enclosure Type Rating	NEMA 1, 3, 4, 6P and IEC IP67, IP68, IP69K
Operating Temperature [C (F)]	-40…+105° (-22…+221°)
O-Ring Material	Nitrile rubber or Viton®

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 Code	Female	Male	Female	Male
A	1 Brown 3 Blue	4 Black	1 Brown 2 White	3 Blue 4 Black

Terminal Chambers, Pico Style

Screw Terminal Field Attachable Connectors

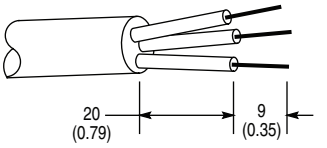
3-Pin Pico Female

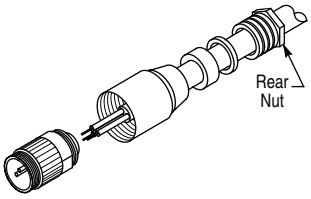
Specifications

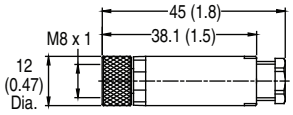
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Nickel-plated brass
Connector Shell Material	PBT
Contact Material	Gold-plated palladium nickel
Cable Type	20 AWG (0.5 mm^2) max.
Electrical	
Assembly Rating	3- or 4-pin: 60V, 4 A
Environmental	
Enclosure Type Rating	IP67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

Approximate Dimensions

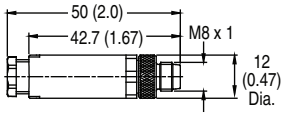
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.







Right Angle Female



Right Angle Male

Pinout and Color Code

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

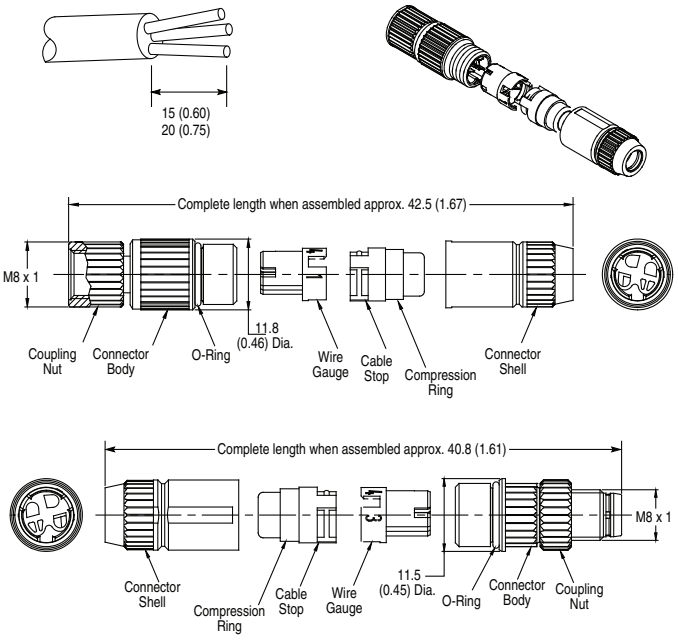
Pico Style Male

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	1.0…1.6 mm (0.04…0.063 in.)
Wire Size	22…26 AWG (min. individual strand size = 38 AWG)
Environmental	
Enclosure Type Rating	IP67; NEMA 6P
Operating Temperature [C (F)]	-25…+85° (-13…+185°)
Installation Temperature [C (F)]	-5…+50 (23…+122°)

Approximate Dimensions

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



Straight Male

Pinout and Color Code

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

Cordsets & Patchcords, M23 Style

18 or 18/22 AWG, Black or Yellow PVC

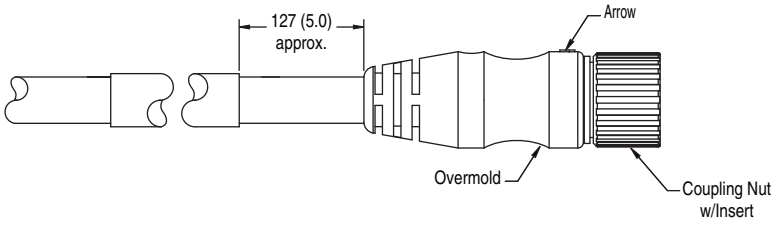
12-Pin M23 Cordset

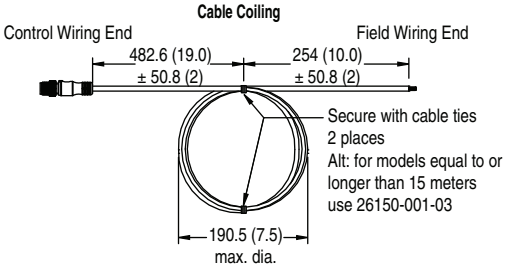
Specifications

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

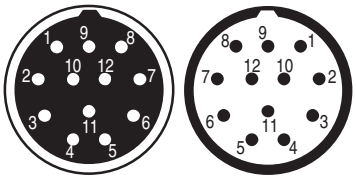
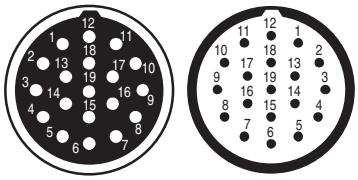
Approximate Dimensions

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





Pinout and Color Code

Color Code	Face View Pinout						
	12-Pin			19-Pin			
	 *Female* *Male*			 *Female* *Male*		
A	**9-Conductor**			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★
	1 Brown 2 NA 3 Blue 4 White	5 NA 6 Green 7 Yellow 8 Grey	9 Pink 10 Red 11 NA 12 Green/Yellow			
B	**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★			
C	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

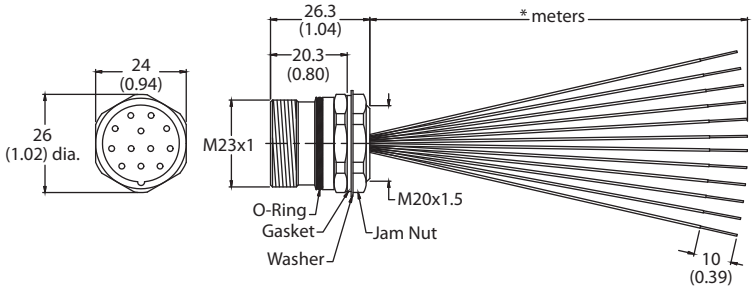
12-Pin Male M23 Receptacle

Specifications

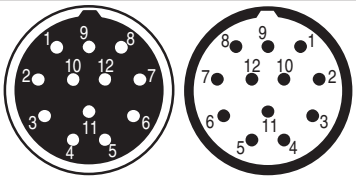
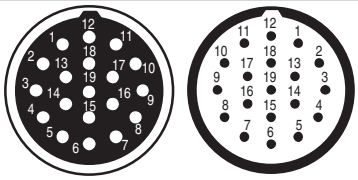
Mechanical	
Receptacle Shell Material	Nickel-plated brass
Connector Insert Material	Nylon or PBT/Grey
Contact Material	Machined brass with gold over nickel plating
Cable Type	Oil-resistant PVC, 18 AWG stranded copper, 300V, UL Recognized and CSA Certified
Electrical	
Assembly Rating	9-, 11-, 12-pin: 300V, 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.



Pinout and Color Code

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

Field Attachable, M23 Style
Solder Type

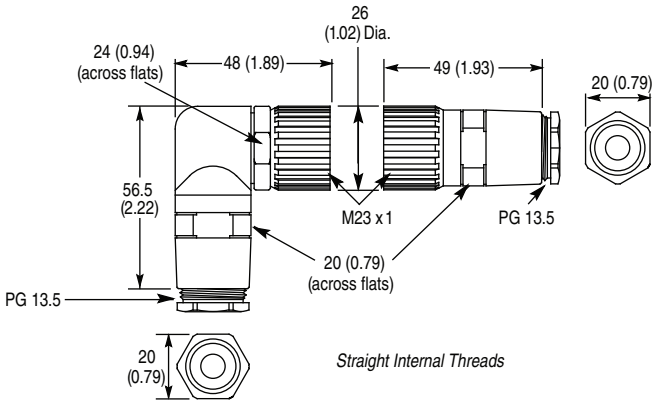
Field-Attachable M23 Connector

Specifications

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

Approximate Dimensions

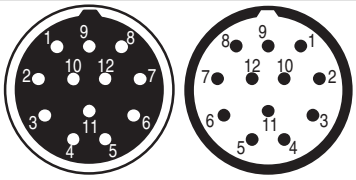
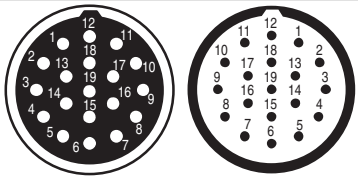
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Straight Internal Threads

Pinout

Face View Pinout

9-, 11-, or 12-Pin	19-Pin
	
Female *Male*	*Female* *Male*

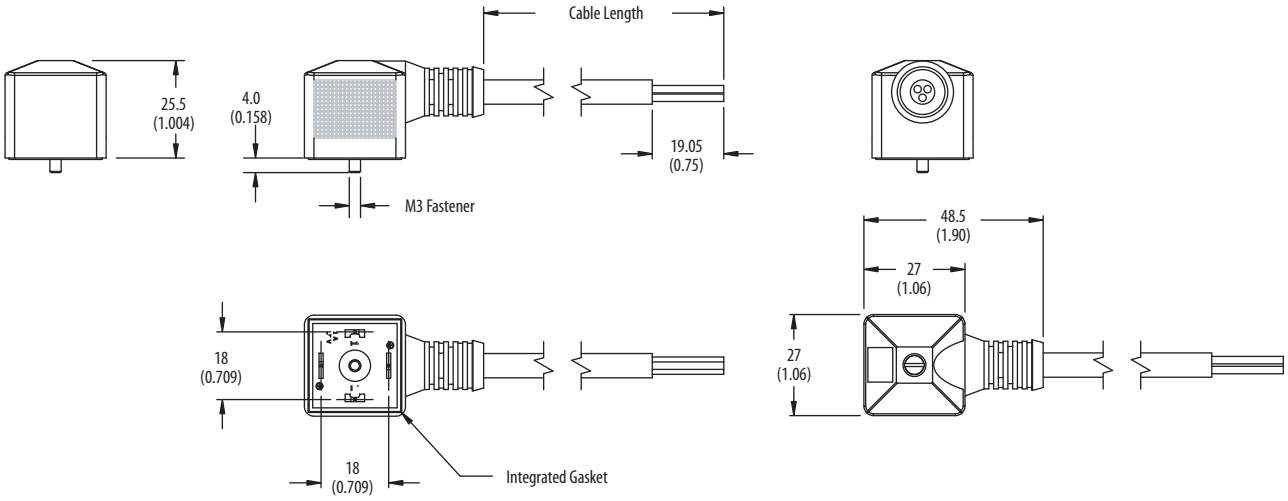
Valve A Cordset

Specifications

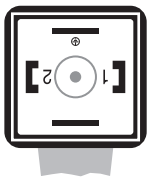
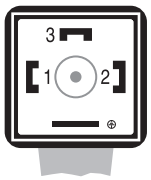
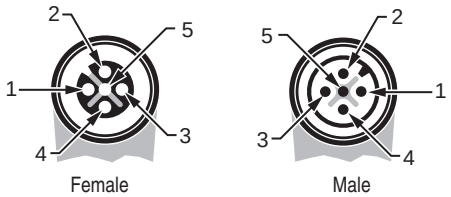
Certifications	UL Recognized and CSA Certified
Mechanical	
Housing Material	Molded oil-resistant PUR (NonLED version: black, LED version: clear)
Gasket Material	Nitrile
Contact Material	Tin-plated copper
Mounting Screw	18-8 Stainless Steel
Cable Type	Oil-resistant black PVC jacket, 18 AWG conductor, 300V, UL Recognized and CSA Certified
Home Run Connection	10x diameter, min.
Cable Diameter [mm (in.)]	18 AWG, 3-conductor: 5.5 (0.216), 4-conductor: 6 (0.235)
Electrical	
Cable Rating	UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant
Assembly Rating	Straight wired: 0…250V AC/DC, 10 A LED & Varistor surge suppression: 24V or 115V AC/DC, 10 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6
Temperature Rating [C (F)]	-25…+80° (-13…+176°)

Approximate Dimensions

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



Pinout

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

Cordsets & Patchcords, DIN Valve Style

DIN Valve B (11 mm)

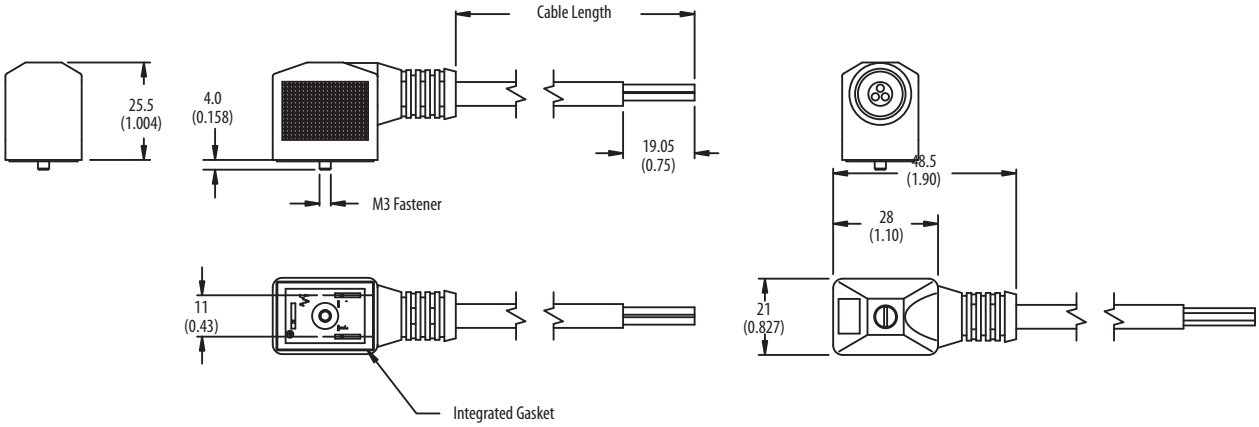
Valve B Cordset

Specifications

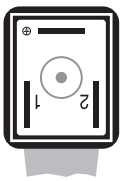
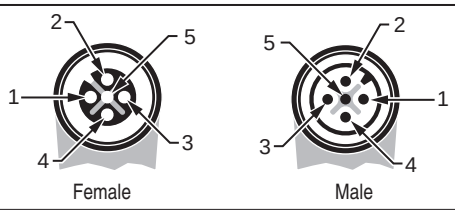
Certifications	UL Recognized and CSA Certified
Mechanical	
Housing Material	Molded oil-resistant PUR (NonLED version: black, LED version: clear)
Gasket Material	Nitrile
Contact Material	Tin-plated copper
Mounting Screw	18-8 Stainless Steel
Cable Type	Oil-resistant PVC jacket, 18 AWG conductor, 300V, UL Recognized and CSA Certified
Home Run Connection	10x diameter, min.
Cable Diameter [mm (in.)]	18 AWG, 3-conductor: 5.5 (0.216), 4-conductor: 6 (0.235)
Electrical	
Cable Rating	UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant
Assembly Rating	Straight Wired: 0…250V AC/DC, 10 A LED & Varistor surge suppression: 24V or 115V AC/DC, 10 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6
Temperature Rating [C (F)]	-25…+80° (-13…+176°)

Approximate Dimensions

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



Pinout

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

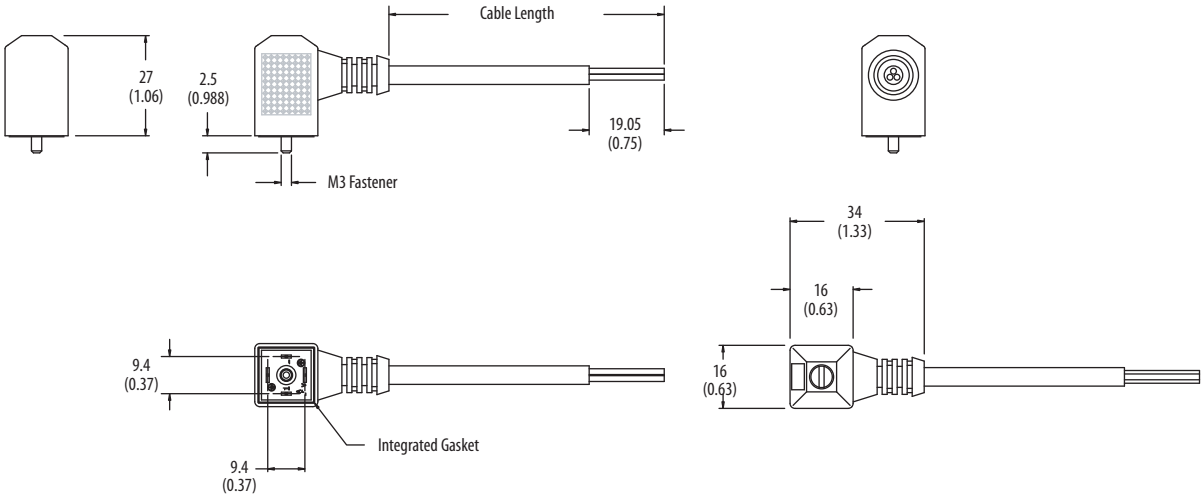
Valve C Cordset

Specifications

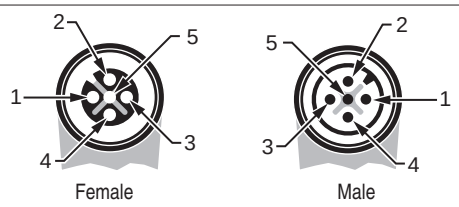
Certifications	UL Recognized and CSA Certified
Mechanical	
Housing Material	Molded oil-resistant PUR (NonLED version: black, LED version: clear)
Gasket Material	Nitrile
Contact Material	Tin-plated copper
Mounting Screw	18-8 Stainless Steel
Cable Type	Oil-resistant PVC jacket, 20 AWG conductor, 300V, UL Recognized and CSA Certified
Bend Radius	10x diameter, min.
Cable Diameter [mm (in.)]	20 AWG, 4-conductor: 5.2 (0.205)
Electrical	
Cable Rating	UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant
Assembly Rating	Straight Wired: 0…250V AC/DC, 6 A LED & Varistor Surge Suppression: 24V or 115V AC/DC, 6 A
Environmental	
Enclosure Type Rating	IP67, NEMA 6
Temperature Rating [C (F)]	-25…+80° (-13…+176°)

Approximate Dimensions

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



Pinout

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

Field Attachable, DIN Valve Style

DIN Valve A (18 mm)

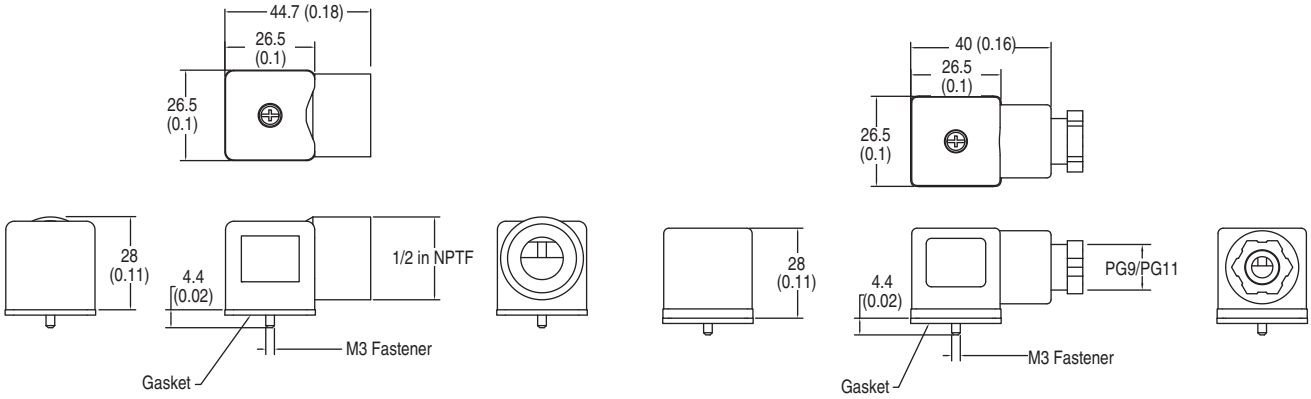
Valve A

Specifications

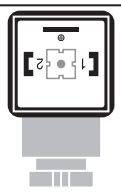
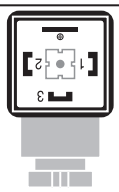
Mechanical	
Connector Shell Material	Polyamid Nylon 6
Gasket Material	Nitrile
Mounting Screw	Zinc-plated steel
No. of Main Contacts	2 + ground, 3 + ground
Cable Type	Connector accepts 14 AWG max.
Electrical	
Assembly Rating	Straight Wire: 0…250V, 10 A LED & Varistor surge suppression: 24V, 115V or 230V,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

Approximate Dimensions

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



Pinout

Face View Pinout	
3-Pin	**4-Pin**
	

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

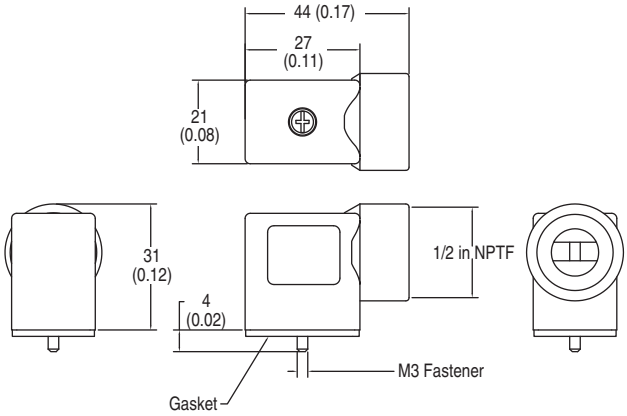
Valve B & BEU

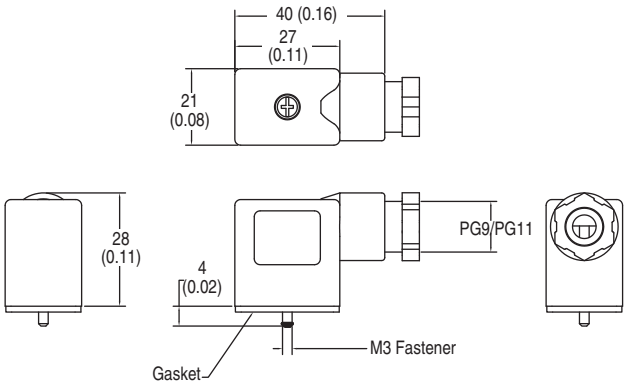
Specifications

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

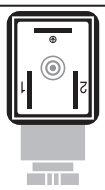
Approximate Dimensions

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





Pinout

Face View Pinout	
DIN Valve B Style (11 mm)	**DIN Valve BEU Style (10 mm)**
3-Pin	
	

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

Field Attachable, DIN Valve Style

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

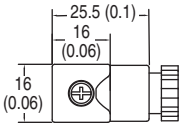
Valve C & CEU

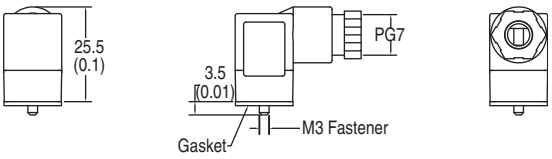
Specifications

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

Approximate Dimensions

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





Pinout

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

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

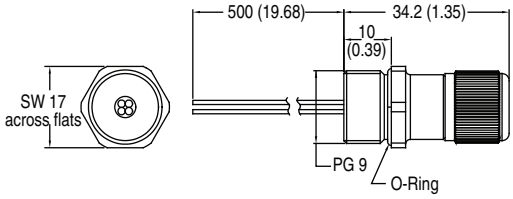
4-Pin IDC Receptacle

Specifications

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

Approximate Dimensions

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



Cable Spools

22 & 18 AWG, PVC

Specifications

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

PUR 22 AWG & TPE 18 AWG

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°)

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