Technical Data

Allen-Bradley

DeviceNet Media System

Bulletin Numbers 1485A, 1485C, 1485F, 1485G, 1485K, 1485P, 1485R, 1485T

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DeviceNet Auxiliary Power Round Media	35

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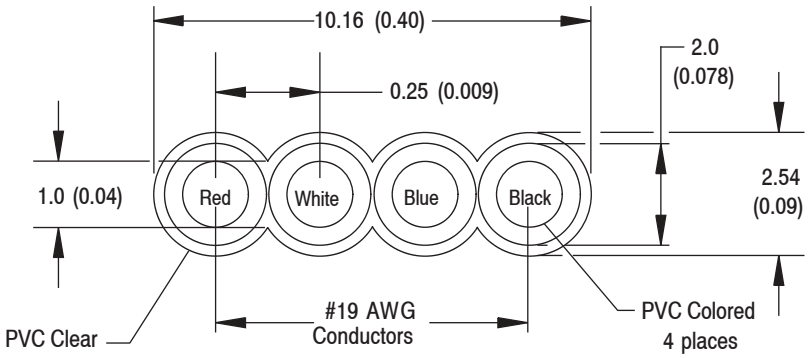
Rockwell Automation

Specifications

Certifications	UL and cUL Listed
Cable Type	4 conductor unshielded
Contact Material	Tinned annealed copper
Cable Rating	CL2 2c/AWG 19 and 2c/AWG 21 90°C, CL2 and CM Certified
Home Run Connection	26 mm (1.02 in.)
Operating Temperature [C (F)]	-10…+90 ° (14…194 °)

Approximate Dimensions

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



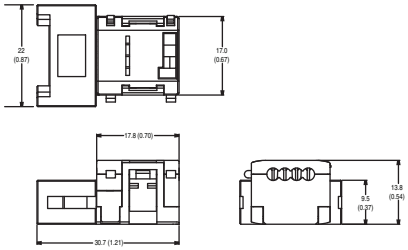
Specifications

Safety Ratings	
Certifications	UL Recognized
Physical Characteristics	
Connector Style	Housing:glass-fiber reinenforced PBT cover: PA66
Contact Material	Phosphor bronze/nickel substrate
Electrical	
Current Capacity	4 A
Voltage	30V DC
Environmental	
Enclosure Type Rating	IP20
Vibration	1.52 mm (0.06 in.) displacement, 10…500 Hz
Operating Temperature [C (F)]	-35…+55 ° (-31…+131 °)
Storage Temperature [C (F)]	-35…+80 ° (-31…+176 °)

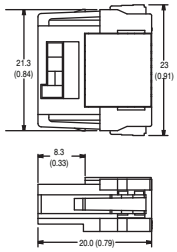
Approximate Dimensions

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

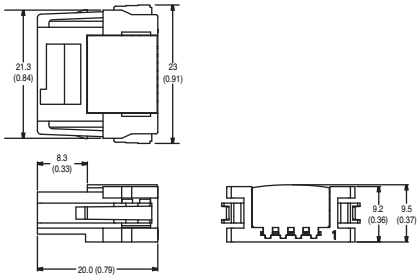
Trunk Line Connector



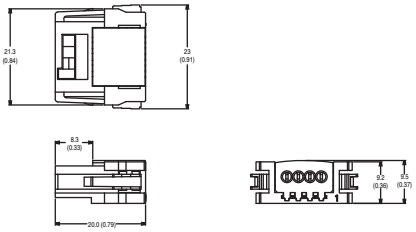
Drop Line Connector



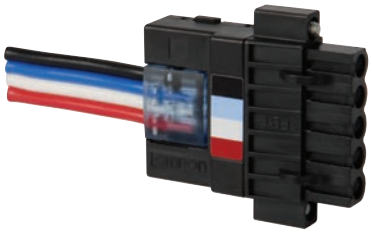
Terminating Resistor



Flat Media to Round Converter



KwikLink™ Lite Flat Media
Five-Pin Open-Style Connector



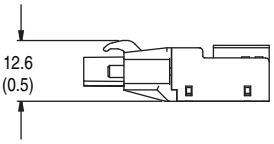
Open-Style Connector, IDC

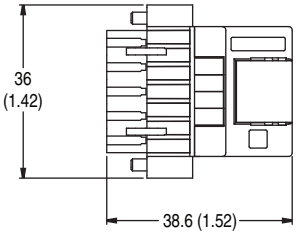
Specifications

Safety Ratings	
Certifications	UL Recognized
Physical Characteristics	
Connector Style	Housing: PBT -V0
Contact Material	Gold-plated
Electrical	
Current Capacity	4 A
Voltage	25V DC
Environmental	
Enclosure Type Rating	IP20
Vibration	0.75 mm (0.03 in.), 10…500 Hz
Operating Temperature [C (F)]	-40…+100 ° (-40…+212 °)
Storage Temperature [C (F)]	-40…+100 ° (-40…+212 °)

Approximate Dimensions

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





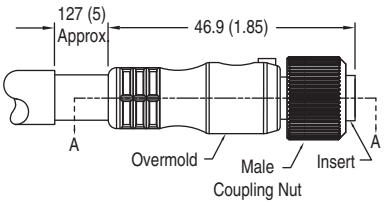
KwikLink Lite Drop Cordset

Specifications

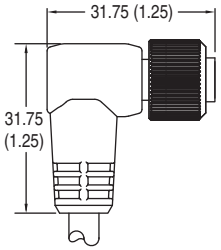
Physical Characteristics	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant PUR
Contact Material	Gold-plated palladium nickel
Cable Type	Oil resistant grey PVC jacket, unshielded, 22 AWG power conductors, 24 AWG signal conductors
Cable Diameter [mm (in.)]	6 (0.24)
Electrical	
Current Capacity	4 A
Environmental	
Temperature Rating [C (F)]	-20…+80 ° (-4…+176 °)

Approximate Dimensions

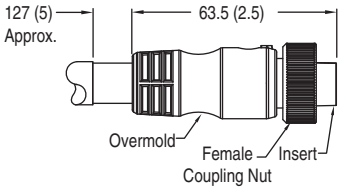
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



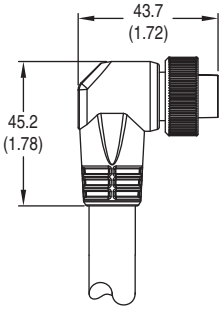
Straight Micro Female



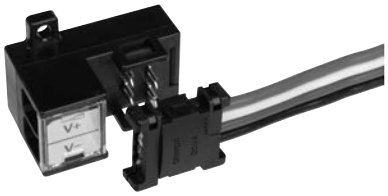
Right Angle Micro Female



Straight Mini Female



Right Angle Mini Female



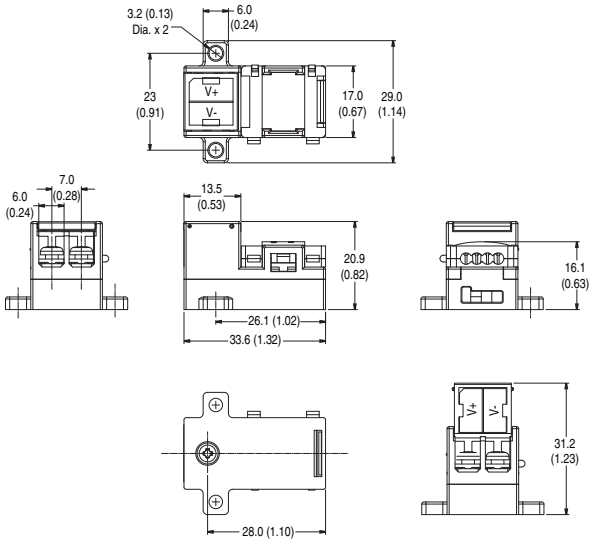
Power Input

Specifications

Safety Ratings	
Certifications	UL Recognized
Physical Characteristics	
Connector Style	Contact area: phosphor bronze/nickel under plated, gold plated; Terminal area: phosphor bronze/nickel under plated, gold flash plating
Contact Material	Phosphor bronze/nickel substrate
Electrical	
Current Capacity	4 A
Voltage	30V DC
Environmental	
Enclosure Type Rating	IP20
Vibration	1.52 mm (0.06 in.) displacement, 10…500 Hz
Operating Temperature [C (F)]	-35…+55 ° (-31…+131 °)
Storage Temperature [C (F)]	-35…+80 ° (-31…+176 °)

Approximate Dimensions

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



Class 1 Flat Cable

Class 2 Flat Cable

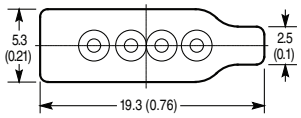
Auxiliary Power Flat Cable

Specifications

Certifications	UL Listed and CSA Certified
Cable Type	4-conductor unshielded
Cable Rating	CL1: 4C16, UL TC 600V 75C west sunlight resistant, cUL FT4 CL2: 4C16, UL CL2 75C, CSA AWM I/II A/B 80C 300V FT4 Auxiliary Power: 4C16, UL TC 600V 75C wet sunlight resistant, cUL Type CIC TPE FT4
Operating Temperature [C (F)]	-25…+75 ° (-13…+167 °)

Approximate Dimensions

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



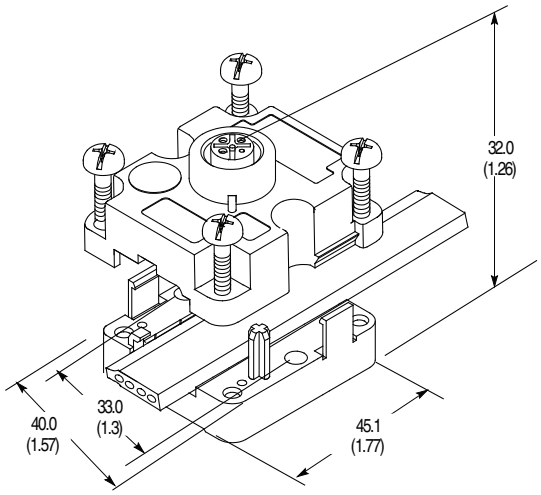
KwikLink General Purpose

Specifications

Storage Temperature [C (F)]	-40…+85 ° (-40…+185 °)
Installation Temperature [C (F)]	0…50 ° (32…122 °)
Operating Temperature [C (F)]	-25…+75 ° (-13…+167 °)
Enclosure Type Rating	IP67
Vibration	0.35 mm (0.014 in.) displacement @ 10…150Hz, 3 planes
Connector Material	Cover: Glass-filled polyester, type PBT Base: Glass-filled nylon, type PA66
Installation Torque	1.1…1.3 N•m (10…12 in•lb)
Dimensions	45 x 40 x 32 mm (1.8 x 1.6 x 1.3 in.)

Approximate Dimensions

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



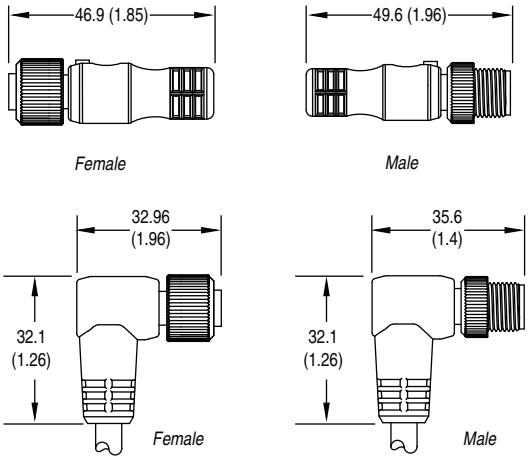
KwikLink Drop Cable

Specifications

Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant grey PVC jacket, unshielded, 22 AWG power conductors, 24 AWG signal conductors
Cable O.D.	6 mm (0.24 in.)
Temperature Rating [C (F)]	-20…+80 ° (-4…176 °)
Current, Max	3 A

Approximate Dimensions

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



4-Pin DC Micro Patchcord

Wiring Diagrams

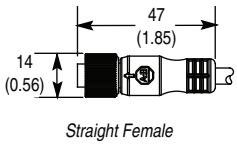
Male	Female
1 <--No connection--<	1
2 <--------Brown-------<	2
3 <---------Blue---------<	3
4 <--No connection---<	4
5 <--No connection---<	5

Specifications

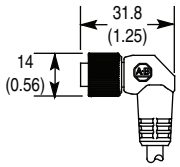
Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC jacket, PVC insulated conductors, 300V
Cable Diameter [mm (in.)]	5 (0.21)
Bend Radius	10 x diameter
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, NEMA 6P, 1200 psi (8270 kPa) washdown
Temperature Rating [C (F)]	-20…+105 ° (-4…+221 °)

Approximate Dimensions

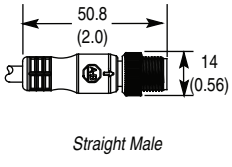
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



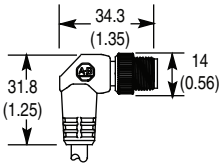
Straight Female



Right Angle Female



Straight Male



Right Angle Male

Class 1 Flat Cable

Class 2 Flat Cable

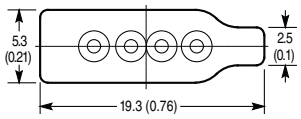
Auxiliary Power Flat Cable

Specifications

Certifications	UL Listed and CSA Certified
Cable Type	4-conductor unshielded
Cable Rating	CL1: 4C16, UL TC 600V 75C west sunlight resistant, cUL FT4 CL2: 4C16, UL CL2 75C, CSA AWM I/II A/B 80C 300V FT4 Auxiliary Power: 4C16, UL TC 600V 75C wet sunlight resistant, cUL Type CIC TPE FT4
Operating Temperature [C (F)]	-25…+75 ° (-13…+167 °)

Approximate Dimensions

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



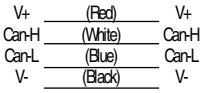
KwikLink™ Heavy Duty Flat Media
Trunk Splice Kit

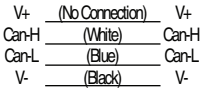
Splice Kit

Specifications

Storage Temperature [C (F)]	-40…+85 ° (-40…+185 °)
Operating Temperature [C (F)]	-25…+75 ° (-13…+167 °)
Enclosure Type Rating	Unsealed: NEMA 1; IP60 (IEC 529)
Vibration	1.5 mm displacement @ 10 500 Hz, 10 G peak, 3 planes
Material	Valox®
Jacket Material	Grey PVC
Dimensions	45 x 49 x 59 mm (1.8 x 1.8 x 2.3 in.)

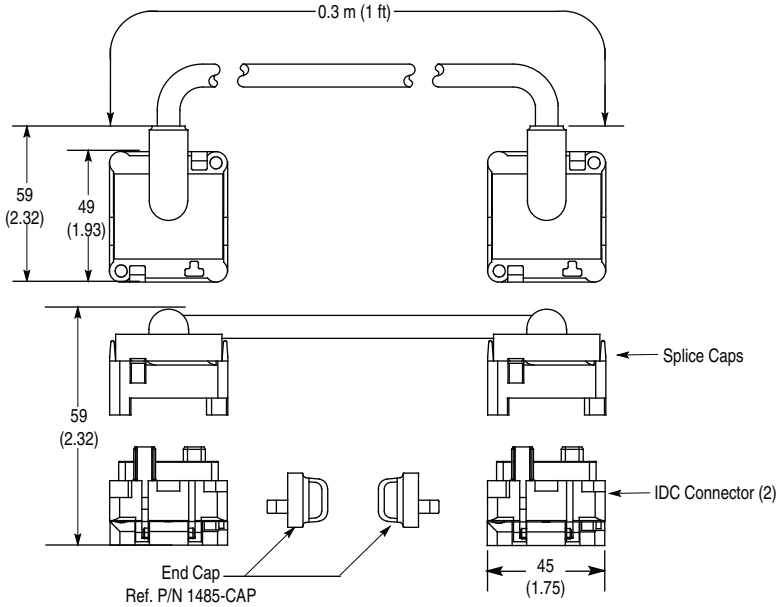
Wiring Diagrams





Approximate Dimensions

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



Micro Style IDC

Open Style IDC

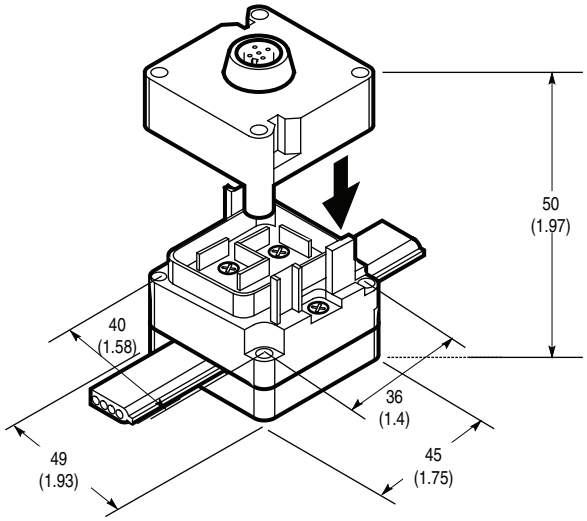
Terminator

Specifications

Storage Temperature [C (F)]	-40…+85 ° (-40…+185 °)
Operating Temperature [C (F)]	-25…+75 ° (-13…+167 °)
Enclosure Type Rating	Unsealed: NEMA 1; IP60 (IEC 529) Sealed: NEMA 6P, 13, IP67 and 1200 psi washdown
Vibration	1.5 mm displacement @ 10…500 Hz, 10 G peak, 3 planes
Material	Valox®
Dimensions	45 x 49 x 50 mm (1.8 x 1.8 x 2 in.)

Approximate Dimensions

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



Mini Style Pigtail Drop IDC

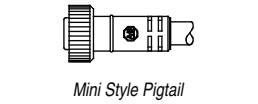
Cable Drop IDC

Specifications

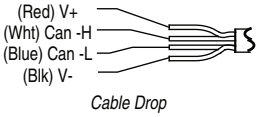
Storage Temperature [C (F)]	-40…+85 ° (-40…+185 °)
Operating Temperature [C (F)]	-25…+75 ° (-13…+167 °)
Enclosure Type Rating	Sealed: NEMA 6P, 13; IP67 (IEC 529) and 1200 psi (8270 kPa) washdown Sealed: NEMA 6P, 13; IP67 (IEC 529) and 1200 psi (8270 kPa) washdown
Vibration	1.5 mm displacement @ 10…500 Hz, 10 G peak, 3 planes
Material	Valox®
Dimensions	45 x 49 x 59 mm (1.8 x 1.8 x 2.3 in.)

Approximate Dimensions

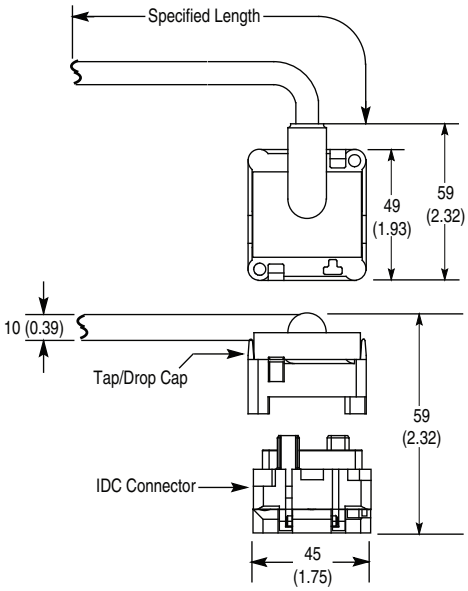
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Mini Style Pigtail



Cable Drop



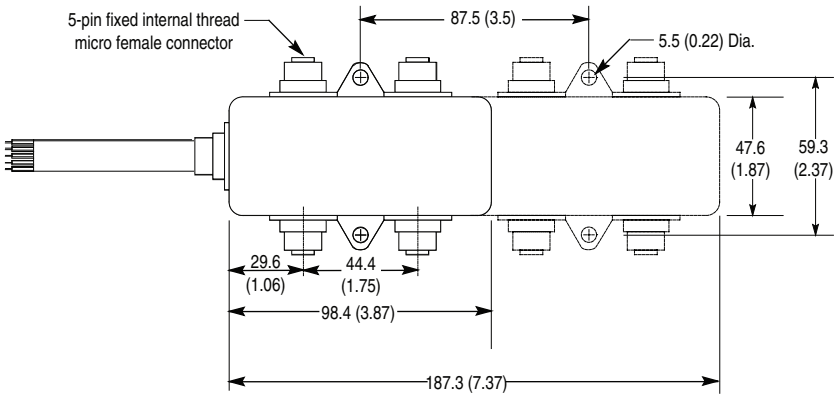
4- and 8-Port DevicePorts with Cable Drop

Specifications

Storage Temperature [C (F)]	-40…+85 ° (-40…+185 °)
Operating Temperature [C (F)]	-25…+70 ° (-13…+158 °)
Enclosure Type Rating	NEMA 4, 6P and 1200 psi (8270 kPa), 3.5 GPM, (60°C) 140°F temperature washdown; IP67 (IEC 529)
Vibration	30…120 Hz
Shock	5 g
Material	Chemical resistant black polymer

Approximate Dimensions

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



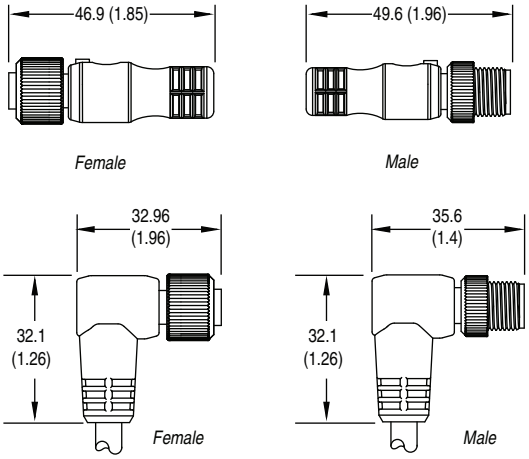
KwikLink Drop Cable

Specifications

Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant grey PVC jacket, unshielded, 22 AWG power conductors, 24 AWG signal conductors
Cable O.D.	6 mm (0.24 in.)
Temperature Rating [C (F)]	-20…+80 ° (-4…+176 °)
Current, Max	3 A

Approximate Dimensions

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



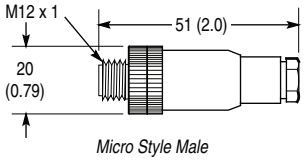
Straight Female Micro Style Terminal Chamber

Specifications

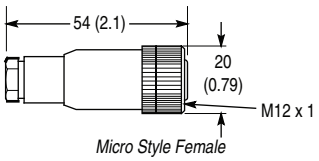
Coupling Nut Material	Micro: Nickel-plated brass; Mini: Anodized aluminum
Connector Shell Material	Nylon
Contact Material	Gold-plated palladium/nickel
Enclosure Type Rating	NEMA 6; IP67 (IEC 529)
Operating Temperature [C (F)]	-40…+90 ° (-40…+194 °)

Approximate Dimensions

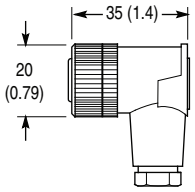
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



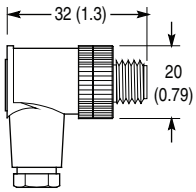
Micro Style Male



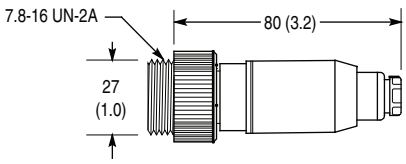
Micro Style Female



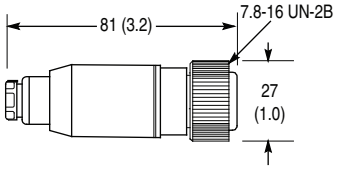
Micro Right Angle Female



Micro Right Angle Male



Mini Style Male



Mini Style Female

4-Pin DC Micro Patchcord

Wiring Diagrams

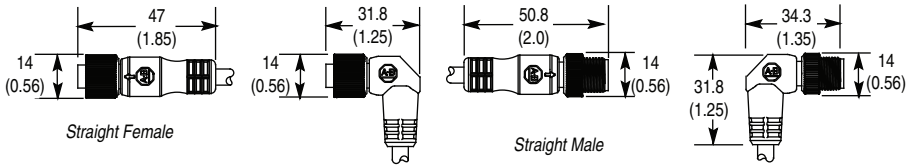
Male	Female
1 <--No connection--<	1
2 <--------Brown-------<	2
3 <---------Blue---------<	3
4 <--No connection---<	4
5 <--No connection---<	5

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded PUR
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant PVC jacket, PVC insulated conductors, 300V
Cable Diameter [mm (in.)]	5 (0.21)
Bend Radius	10 x diameter
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, 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.



Specifications

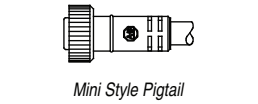
Cable Temperature [C (F)]	-25…+75 ° (-13…+167 °)
Enclosure Type Rating	NEMA 6P, 13; IP67 (IEC 529) and 1200 psi (8270 kPa) washdown
Vibration	1.5 mm displacement @ 10…500 Hz, 10 G peak, 3 planes
Material	Valox®
Cable Type	Oil resistant yellow PVC jacket, 16 AWG stranded copper, 600V, UL Recognized and CSA Certified, STOOW-A
Dimensions	45 x 49 x 59 mm (1.8 x 1.8 x 2.3 in.)

Wiring

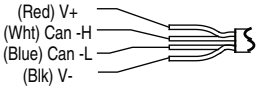
Device End	Flat Cable
Black (pin 1)	Black
White (pin 2)	Blue
Red (pin 3)	Red
Green (pin 4)	White

Approximate Dimensions

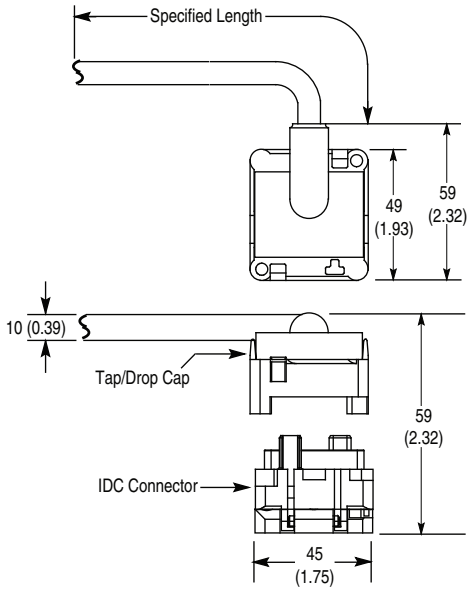
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Mini Style Pigtail



Cable Drop



Thick Trunk Cable

Mini to Mini Thick Patchcord

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Jacket Material	Grey PVC
No. of Conductors	1 pair 15 AWG, 1 pair 18 AWG, and drain
Contact Material	Gold-plated machined brass
Cable Diameter [mm (in.)]	Thick: 12.2 (0.48); ODVA Type V: 13.5 (0.53)
Bend Radius	10 x diameter
Electrical	
Cable Rating	**Thick:** UL-Type PLTC 300V or CM 75 °C (167 °F) or AWM style 2464, CSA-AWM I/II A/B 80 °C (176 °F) 300V FT1, Class 2 Type **Thick Flex Rated:** UL-Type PLTC 75C or AWM 80C 600V, CSA AWM I/II A/B 80C 600V, FT4 Oil Res II ODVA Type V, Open-Wiring Compliant: UL 600V TC-ER 75C Sunlight Resistant, c(UL) AWM I/II A/B 75C 600V FT1 **ODVA Type V Cable:** Type V Trunk Cable, UL 600V Type TC-ER Sunlight Resistant 75 °C Dry Open Wiring, CSA AWM I/II A/B 75 °C 600V FT1, Oil Resistant, Class 1 Type
Assembly Rating	Thick: 300V, 8 A (4A NEC)
Environmental	
Enclosure Type Rating	NEMA 1, 2, 3, 4, 6P, 12, 13; IP67; 1200 psi (8720 kPa) washdown
Cable Temperature [C (F)]	-20…+70 ° (-15…+158 °)

Approximate Dimensions

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

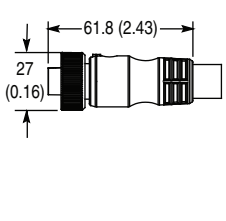


Figure A
Straight Female

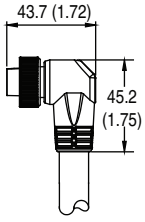


Figure B
Right Angle Female

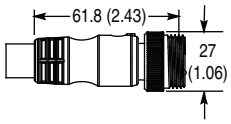


Figure C
Straight Male

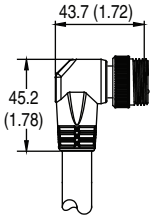
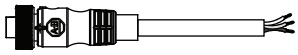
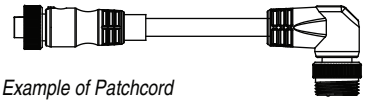


Figure D
Right Angle Male



Example of Cordset



Example of Patchcord

Pinout and Color Code

	Face View Pinout	
	Mini Connector	
	Female	**Male**
Color Code	1 Drain 2 Red (V+) 3 Black (V-)	4 White (CAN_H) 5 Blue (CAN_L)

Thin Cable

Mini to Mini Thin Cordset

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Jacket Material	Yellow CPE (chemical resistant) or grey PVC
No. of Conductors	1 pair 22 AWG, 1 pair 24 AWG and drain
Contact Material	Mini: Gold-plated machined brass; Micro: Gold over nickel-plated brass
Cable Diameter [mm (in.)]	6.9 (0.27)
Bend Radius	10 x diameter
Current, Max	4 A
Electrical	
Cable Rating	**Grey PVC:** UL CL2 or CMG 75 °C (167 °F) or AWM 600V or c(UL) CMG or AWM I/II 80 °C (176 °F) 300V FT4; **Grey High-Flex PVC:** UL CL2 75 °C (167 °F) or AWM 20201 80 °C (176 °F) 600V or CSA AWM I/II 80 °C (176 °F) 600V FT4; **Yellow CPE:** UL- CL2 or CM 75 °C (167 °F) or AWM 20869 80 °C (176 °F), CSA- AWM I/II A/B 80 °C (176 °F) 300V FT4 Oil Res II
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	NEMA 1, 2, 3, 4, 6P, 12, 13; IP67; 1200 psi (8720 kPa) washdown
Cable Temperature [C (F)]	-20…+70 ° (-15…+158 °)

Approximate Dimensions

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

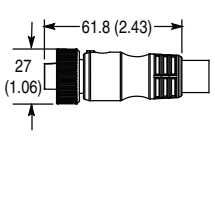


Figure A
Straight Female

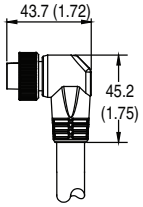


Figure B
Right Angle Female

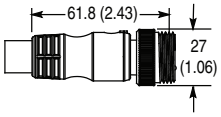


Figure C
Straight Male

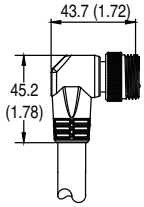


Figure D
Right Angle Male

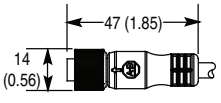


Figure E
Straight Female

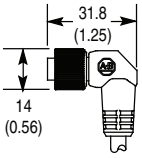


Figure F
Right Angle Female

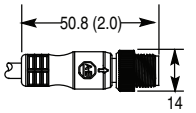


Figure G
Straight Male

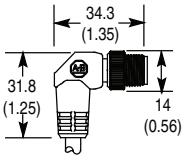


Figure H
Right Angle Male

Pinout and Color Code

	Face View Pinout			
	Mini Connector		**Micro Connector**	
	Female	**Male**	**Female**	**Male**
Color Code	1 Drain 4 White (CAN_H) 2 Red (V+) 5 Blue (CAN_L) 3 Black (V-)			

Mini Female Thin Receptacle

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Thick: Grey PVC; Thin: Grey PVC or Yellow CPE
Jacket Material	Thick: Grey PVC; Thin: Grey PVC or Yellow CPE
No. of Conductors	Thick: 1 pair 15 AWG, 1 pair 18 AWG, and drain; Thin: 1 pair 22 AWG, 1 pair 24 AWG, and drain
Contact Material	Mini: Gold-plated machined brass; Micro: Gold over nickel-plated brass
Cable Diameter [mm (in.)]	Thick: 11.2 (0.44); Thin: 6.9 (0.27)
Bend Radius	10 x diameter
Current, Max	Thick: 8 A (4A NEC); Thin: 3 A
Electrical	
Cable Rating	Thick: UL-Type PLTC 300V or CM 75 °C (167 °F) or AWM style 2464, CSA-AWM I/II A/B 80 °C (176 °F) 300V FT1; Thin, Grey PVC: UL- CM 75 °C (167 °F) or AWM 2464, CSA- SWM II A/B 80 °C (176 °F) 300V FT4; Thin, Yellow CPE: UL- CL2 or CM 75 °C (167 °F) or AWM 20869 80 °C (176 °F), CSA- AWM I/II A/B 80 °C (176 °F) 30
Assembly Rating	Thick: 300V, 9 A (4 A NEC); Thin: (250V, 4 A
Environmental	
Enclosure Type Rating	NEMA 1, 2, 3, 4, 6P, 12, 13; IP67, 1200 psi (8720 kPa) washdown
Operating Temperature [C (F)]	-40…+80 ° (-40…+176 °)

Approximate Dimensions

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

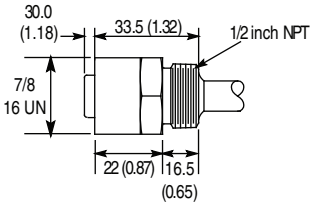
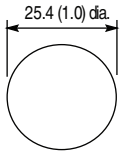


Figure A
Mini Female Receptacle



Typical Knockout

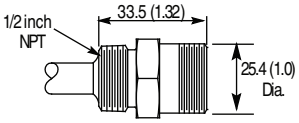


Figure B
Mini Male Receptacle

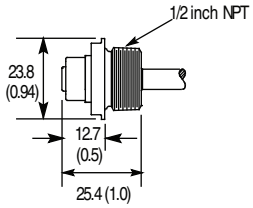


Figure C

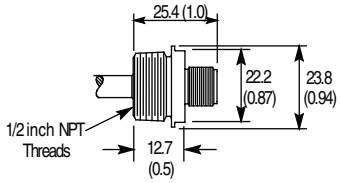


Figure D

Pinout and Color Code

	Face View Pinout			
	Mini Connector		**Micro Connector**	
	Female	**Male**	**Female**	**Male**
Color Code	1 Drain 4 White (CAN_H) 2 Red (V+) 5 Blue (CAN_L) 3 Black (V-)			

Straight Female Micro Style

Female Mini Style

Specifications

Mechanical	
Coupling Nut Material	Micro: nickel-plated brass; Mini: anodized aluminum
Connector Shell Material	Nylon
Contact Material	Mini: Gold-plated brass; Micro: Gold over nickel-plated brass
Shock	5 g
Vibration	30…120 Hz
Electrical	
Assembly Rating	Mini: 250V, 9 A; Micro: 125V, 4 A
Environmental	
Enclosure Type Rating	NEMA 6; IP67 (IEC 529)
Operating Temperature [C (F)]	-25…+70 ° (-13…+158 °)

Approximate Dimensions

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

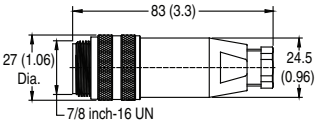


Figure A
Mini Style Female

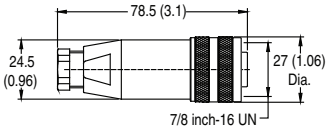


Figure B
Mini Style Male

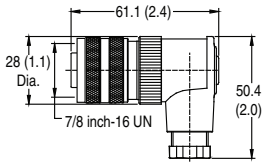


Figure C
Micro Style Female

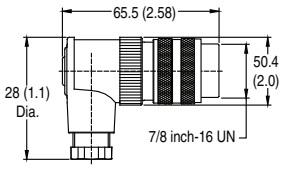


Figure D
Micro Style Male

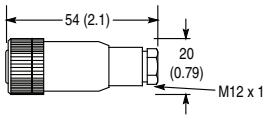


Figure E
Micro Style Female

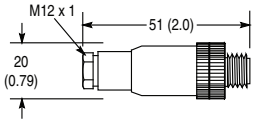


Figure F
Micro Style Male

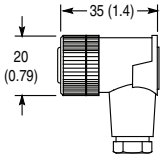


Figure G
Micro Right Angle Female

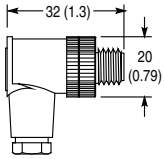


Figure H
Micro Right Angle Male

Pinout and Color Code

	Face View Pinout			
	Mini Connector		**Micro Connector**	
	Female	**Male**	**Female**	**Male**
Color Code	1 Drain 4 White (CAN_H) 2 Red (V+) 5 Blue (CAN_L) 3 Black (V-)			

Bulkhead Pass-thru, Round Media

Mini Bulkhead Pass-thru

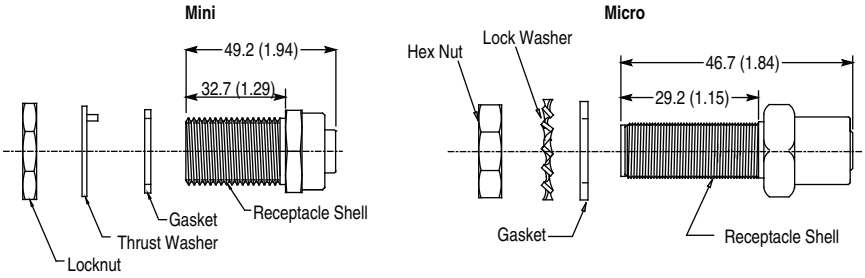
Micro Bulkhead Pass-thru

Specifications

	Mini	Micro
Mechanical		
Material	Nickel-plated brass	
Connector Insert Material	PVC	Nylon
Gasket Material	Neoprene	
Thrust Washer	Nylon	Steel alloy
Contact Material	Gold-plated palladium nickel	
Electrical		
Assembly Rating	600V, 8 A	250V, 4 A
Environmental		
Enclosure Type Rating	IP67	
Operating Temperature [C (F)]	-20…+105 ° (-4…+221 °)	-20…+80 ° (-4…+176 °)

Approximate Dimensions

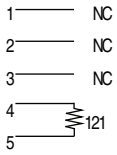
Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Mini Style Terminator

Micro Style Terminator

Wiring Diagrams



Specifications

Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Contact Material	Mini: Gold-plated brass; Micro: Gold over nickel-plated brass
Electrical	
Assembly Rating	Mini: 250V, 8 A; Micro: 250V, 4 A
Environmental	
Enclosure Type Rating	NEMA 1, 2, 3, 4, 6P; 12, 13, IP67, 1200 psi (8720 kPa) washdown
Operating Temperature [C (F)]	-25…+70 ° (-13…+158 °)

Approximate Dimensions

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

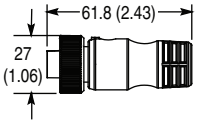


Figure A
Mini Straight Female

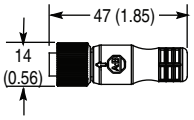


Figure B
Micro Straight Female

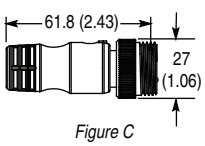


Figure C
Mini Straight Male

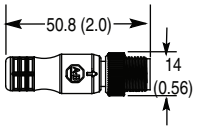


Figure D
Micro Straight Male

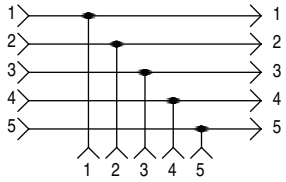
T-port, Round Media
Mini

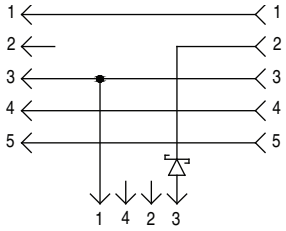
Mini Style T-Port

Specifications

Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	TPE
Contact Material	Mini: Gold-plated brass; Micro: Gold-plated palladium nickel
Electrical	
Assembly Rating	Mini to Mini: 50V, 8 A; Mini to Micro: 50V, 4 A
Environmental	
Enclosure Type Rating	NEMA 6P, 12 and 13; IP67, 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-25…+70 ° (-13…+158 °)

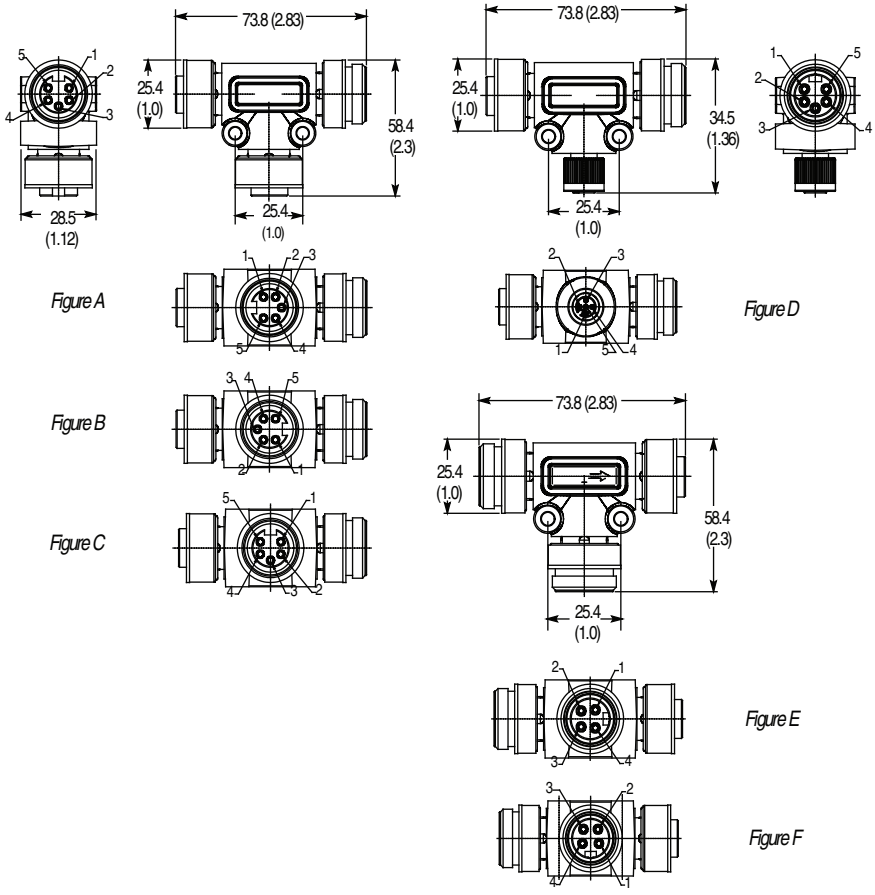
Wiring Diagrams





Approximate Dimensions

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



Pinout and Color Code

	Face View Pinout			
	Mini Connector		**Micro Connector**	**Mini Connector**
	Female	**Male**	**Female**	**Male**
Color Code	1 Drain 2 Red (V+) 3 Black (V-) 4 White (CAN_H) 5 Blue (CAN_L)			

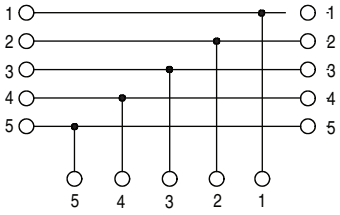
Allen-Bradley

Micro Style T-Port

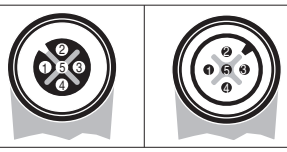
Specifications

Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	PUR
Contact Material	Gold over nickel-plated brass
Electrical	
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	NEMA 6P, 12 and 13, IP 67 (IEC 529), 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-20…+70 ° (-4…+158 °)

Wiring Diagrams



Pinout and Color Code

	Face View Pinout	
		
	Micro Connector	
	Female	**Male**
Color Code	1 Drain 2 Red (V+) 3 Black (V-)	4 White (CAN_H) 5 Blue (CAN_L)

Approximate Dimensions

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

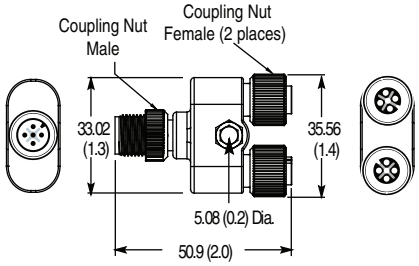


Figure A

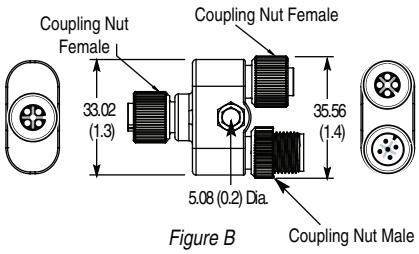


Figure B

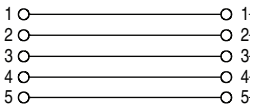
Male to Male Gender Changer

Right Angle Adaptor

Pinout and Color Code

	Face View Pinout	
	Mini Connector	
	Female	**Male**
Color Code	1 Drain 2 Red (V+) 3 Black (V-)	4 White (CAN_H) 5 Blue (CAN_L)

Wiring Diagrams



Specifications

Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	TPE
Contact Material	Gold-plated palladium nickel
Electrical	
Assembly Rating	50V, 8 A
Environmental	
Enclosure Type Rating	NEMA 6P, 12 and 13, IP67, 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-20…+70 ° (-4…+158 °)

Approximate Dimensions

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

Figure A

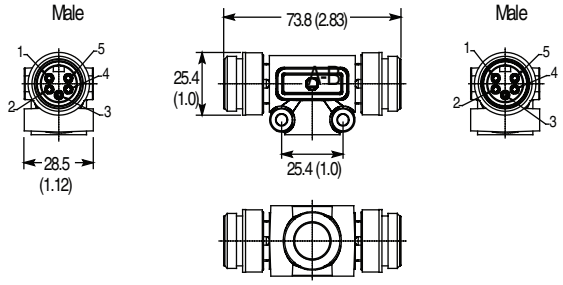


Figure B

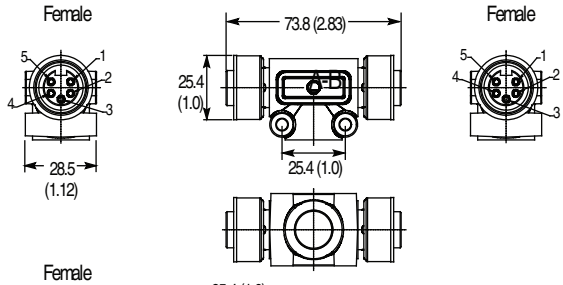
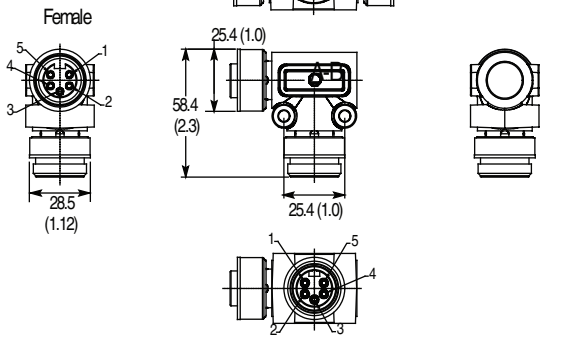


Figure C



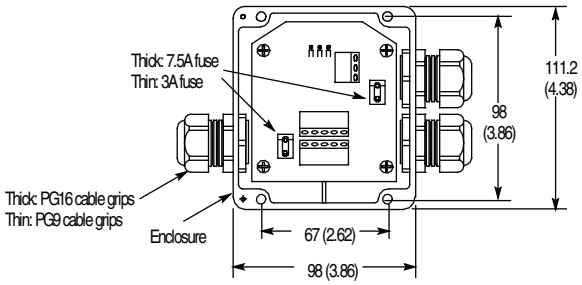
PowerTap, Thick Cable

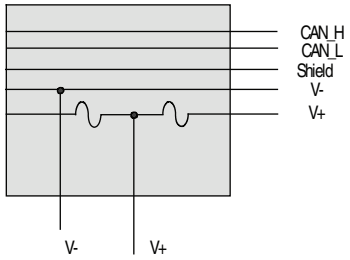
Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Black polymer
Relative Humidity	5…95% (noncondensing)
Current, Max	Thick: 15.0 A max. total current; (7.5 A max. per trunk) Thin: 6 A max. total current; (3 A max. per trunk)
Electrical	
Assembly Rating	Thick: 24V, 8 A; Thin: 25V, 3 A
Environmental	
Enclosure Type Rating	NEMA 3, 4X, 12 and 13; 1200 psi (8270 kPa) at 60°C (140°F); temperature washdown
Storage Temperature [C (F)]	-40…+85 ° (-40…+185 °)
Operating Temperature [C (F)]	-25…+70 ° (-13…+158 °)

Approximate Dimensions

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





Fuse Placement Schematic

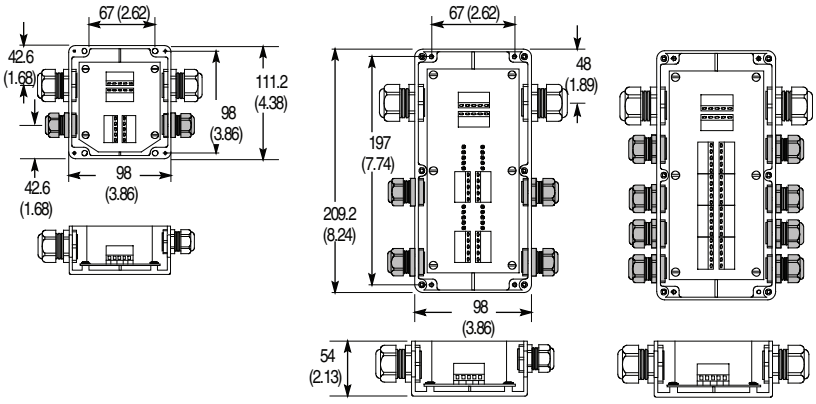
4-port DeviceBox, Thick Cable

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Black polymer
Relative Humidity	5…95% (noncondensing)
Current, Max	Thick: 8 A max. total current; (7.5 A max. per trunk) Thin:
Electrical	
Assembly Rating	24V, 8 A
Environmental	
Enclosure Type Rating	NEMA 3, 4X, 12 and 13; 1200 psi (8270 kPa) washdown
Storage Temperature [C (F)]	-40…+85 ° (-40…+185 °)
Operating Temperature [C (F)]	-25…+70 ° (-13…+158 °)

Approximate Dimensions

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



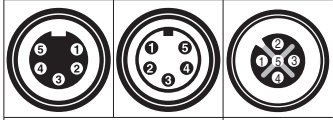
Note: Trunk connection in diagrams above show thick cable gland.

6-Port Thru-Trunk DevicePort with Micro Connectors

Specifications

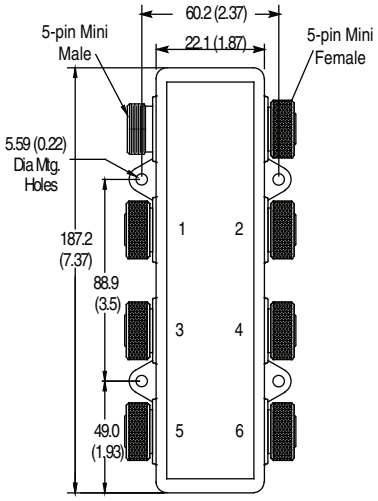
Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Chemical resistant black polymer
Connector Shell Material	Anodized aluminum with clear sealant
Contact Material	Mini: Gold-plated brass; Micro: Gold over nickel-plated brass
Shock	5 g
Vibration	30…120 Hz
Electrical	
Assembly Rating	24V, 3 A
Environmental	
Enclosure Type Rating	IP67, NEMA 4, 6P; 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-13…+158 ° (-25…+70 °)

Pinout and Color Code

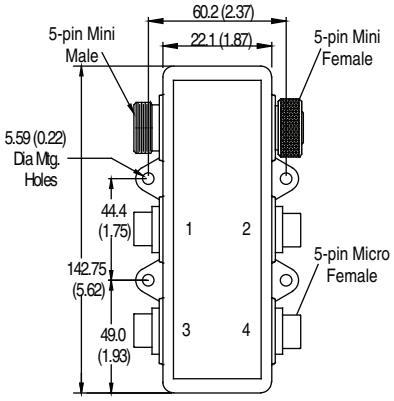
	Face View Pinout		
			
	Mini Connector		Micro Connector
	Female	Male	Female
Color Code	1 Drain 2 Red (V+) 3 Black (V-)	4 White (CAN_H) 5 Blue (CAN_L)	

Approximate Dimensions

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



6-port mini thru-trunk DevicePort



4-port micro thru-trunk DevicePort

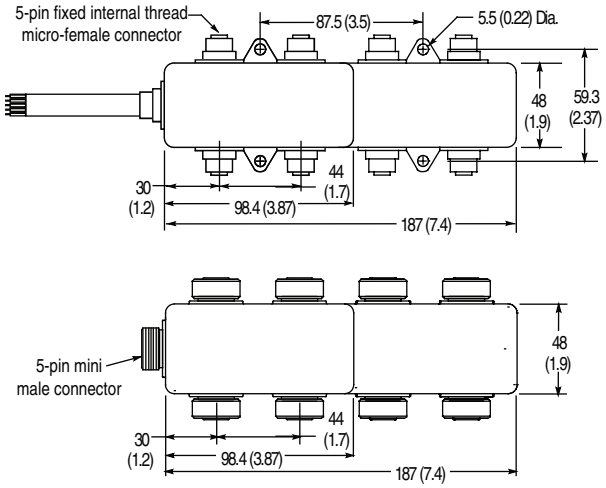
8-Port DevicePort with Cable Drop and Micro Connectors

Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Material	Chemical resistant black polymer
Connector Shell Material	Anodized aluminum with clear sealant
Contact Material	Mini: Gold-plated brass; Micro: Gold over nickel-plated brass
Shock	5 g
Vibration	30…120 Hz
Electrical	
Assembly Rating	24V, 3 A
Environmental	
Enclosure Type Rating	IP67, NEMA 4, 6P; 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-13…+158 ° (-25…+70 °)

Approximate Dimensions

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



Pinout and Color Code

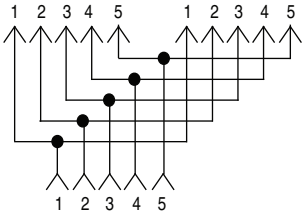
	Face View Pinout			
	Mini Connector		**Micro Connector**	
	Female	**Male**	**Female**	**Male**
Color Code	1 Drain 2 Red (V+) 3 Black (V-) 4 White (CAN_H) 5 Blue (CAN_L)			

Open-Style Y-Adaptor

Specifications

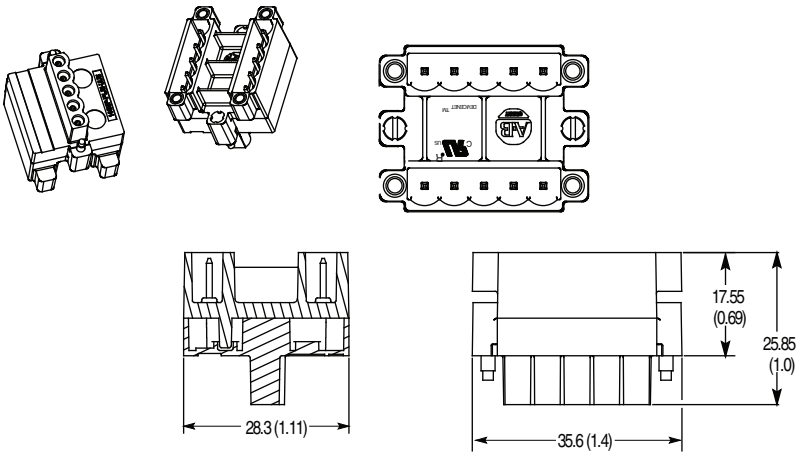
Certifications	UL Recognized for US and Canada
Mechanical	
Material	Nylon
Screw Material	Nickel-plated brass
Contact Material	Phosphor-bronze
Electrical	
Cable Rating	—
Assembly Rating	24V, 8 A
Environmental	
Enclosure Type Rating	IP20
Operating Temperature [C (F)]	-25…+75° (-13…+167°)

Wiring Diagrams



Approximate Dimensions

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

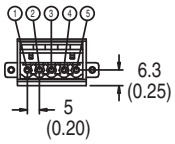


Specifications

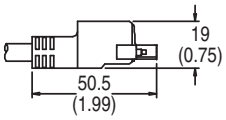
Safety Ratings	
Certifications	UL Recognized and CSA Certified
Physical Characteristics	
Housing Material	Nickel-plated brass
Jacket Material	Thin Grey PVC
Conductor Size, Max.	2 PR 22 AWG, 2 PR 24 AWG
Contact Material	Gold over nickel-plated brass
Cable Diameter	6.9 (0.27)
Home Run Connection	10 x diameter
Current, Max	4 A
Electrical	
Cable Rating	UL-CM 75 °C (167 °F) or AWM 2464, CSA-SWM II A/B 80 °C (176 °F) 300V FT4
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	IP67, 1200 psi (8720 kPa) washdown
Operating Temperature [C (F)]	-20…+70 ° (-15…+158 °)

Approximate Dimensions

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



Drawing 1



Drawing 2

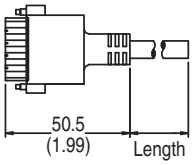


Figure A

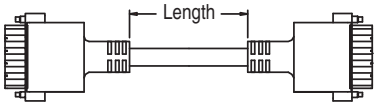


Figure B

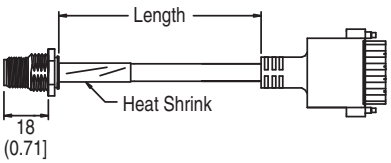


Figure C

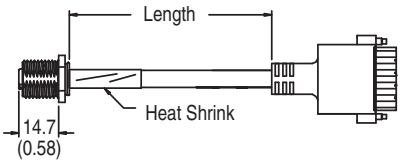


Figure D

Pinout and Color Code

	Face View Pinout			
	Mini Connector		**Micro Connector**	
	Female	**Male**	**Female**	**Male**
Color Code	1 Drain 2 Red (V+) 3 Black (V-)	4 White (CAN_H) 5 Blue (CAN_L)		

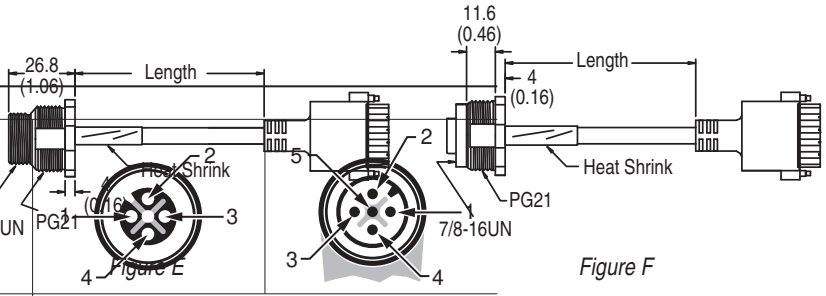


Figure E

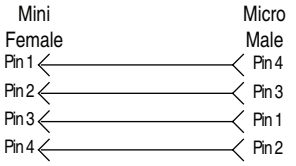
Figure F

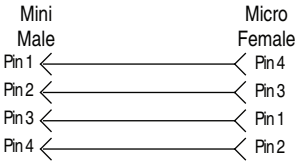
Mini to Mini Auxiliary Power Patchcord

Wiring Diagrams

Mini to Mini and
Micro to Micro Patchcords

Mini to Micro Patchcords





Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant PUR (Micro), TPE (Mini)
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC jacket, UL Recognized and CSA Certified, 16 AWG cable: 600V, 18 AWG and 22 AWG cable: 300V
Bend Radius	10 x diameter
Cable Diameter [mm (in.)]	16 AWG: 11 (0.42), 18 AWG: 7.4 (0.29), 22 AWG: 5 (0.21)
Electrical	
Cable Rating	16 AWG: UL STOOW VW-1 105C 600V, CSA ST 105C 600V FT2, UV oil and water resistant; 18 AWG, 22 AWG: UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant
Assembly Rating	Mini 16 AWG: 600V 10 A; Mini or micro 18 AWG or 22 AWG: 250V, 4 A
Environmental	
Enclosure Type Rating	IP67; NEMA 6P 1200 psi (8720 kPa) washdown
Temperature Rating [C (F)]	-20…+105 ° (-4…+221 °)

Approximate Dimensions

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

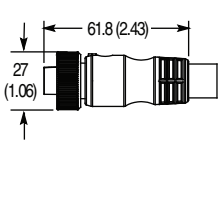


Figure A
Straight Female

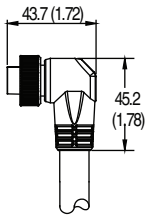


Figure B
Right Angle Female

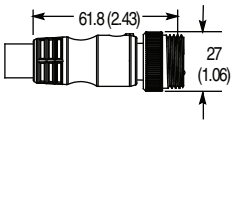


Figure C
Straight Male

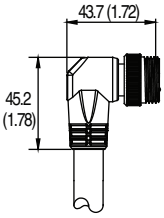


Figure D
Right Angle Male

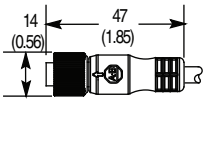


Figure E
Straight Female

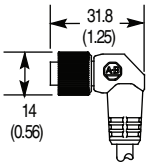


Figure F
Right Angle Female

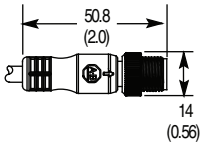


Figure G
Straight Male

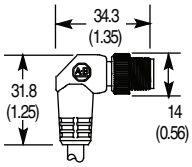


Figure H
Right Angle Male

Pinout and Color Code

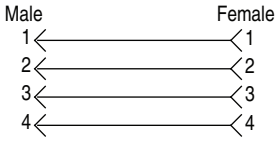
Color Code	Face View Pinout			
	Mini Connector		Micro Connector	
	Female	Male	Female	Male
16 AWG Cable	1 Black 2 White	3 Red 4 Green	—	
18 AWG Cable	1 Black 2 Blue	3 Brown 4 White	1 Brown 2 White 3 Blue	4 Black 5 Not used

Note: Pinout diagram for end device connector may dif fer, see page 6-55.

Mini to Mini Auxiliary Power Patchcord

Wiring Diagrams

Mini to Mini and
Micro to Micro Patchcord



Specifications

Certifications	UL Recognized and CSA Certified
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	Molded oil-resistant PUR (Micro), TPE (Mini)
Contact Material	Gold over nickel-plated brass
Cable Type	Oil-resistant yellow PVC jacket, UL Recognized and CSA Certified, 16 AWG cable: 600V, 18 AWG and 22 AWG cable: 300V
Bend Radius	10 x diameter
Cable Diameter [mm (in.)]	16 AWG: 11 (0.42), 18 AWG: 7.4 (0.29), 22 AWG: 5 (0.21)
Electrical	
Cable Rating	16 AWG: UL STOOW VW-1 105C 600V, CSA ST 105C 600V FT2, UV oil and water resistant; 18 AWG, 22 AWG: UL AWM style 2661 VW-1 105C 300V, CSA AWM A/B I/II 80C 300V FT1, UV oil and water resistant
Assembly Rating	Mini 16 AWG: 600V 10 A; Mini or micro 18 AWG or 22 AWG: 250V, 4 A
Environmental	
Enclosure Type Rating	IP67; NEMA 6P 1200 psi (8720 kPa) washdown
Temperature Rating [C (F)]	-20…+105 ° (-4…+221 °)

Approximate Dimensions

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

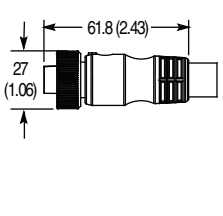


Figure A
Straight Female

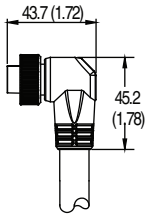


Figure B
Right Angle Female

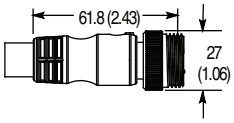


Figure C
Straight Male

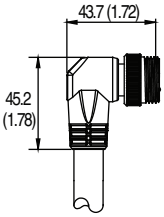


Figure D
Right Angle Male

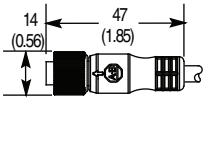


Figure E
Straight Female

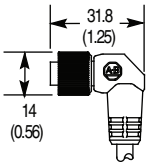


Figure F
Right Angle Female

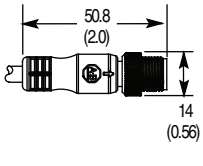


Figure G
Straight Male

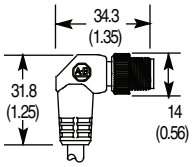


Figure H
Right Angle Male

Pinout and Color Code

	Face View Pinout			
	Mini Connector		Micro Connector	
Color Code	**Male**	**Female**	**Male**	**Female**
16 AWG Cable	1 Black 2 White	3 Red 4 Green	—	
18 AWG Cable	1 Black 2 Blue	3 Brown 4 White	1 Brown 2 White 3 Blue	4 Black 5 Not used

Note: Pinout diagram for end device connector may dif fer, see page 6-54.

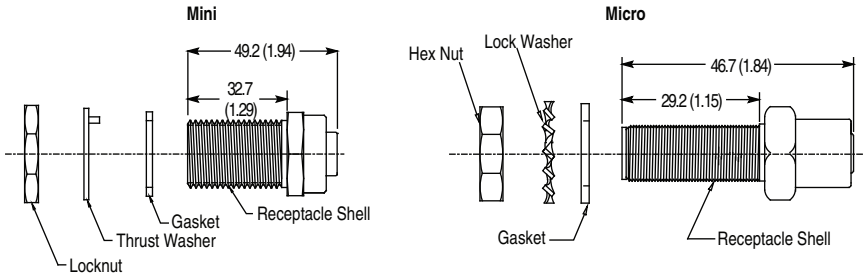
Power Bulkhead Pass-thru

Specifications

	Mini	Micro
Mechanical		
Shell and Lockout Material	Nickel-plated brass	
Connector Insert Material	PVC	Nylon
Gasket Material	Neoprene	
Thrust Washer	Nylon	Steel Alloy
Contact Material	Gold-plated palladium/nickel	
Electrical		
Assembly Rating	600V, 8 A	250V, 4 A
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.



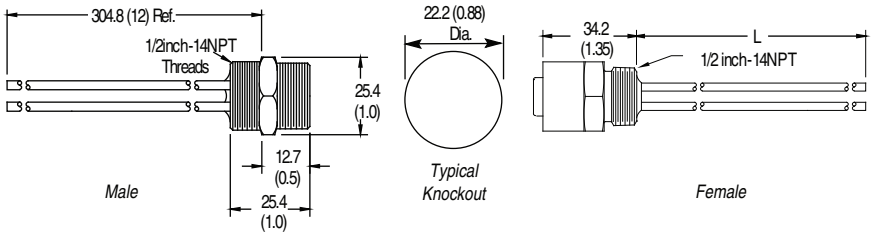
4-pin Female Receptacles

Specifications

Mechanical	
Receptacle Shell Material	Female: Aluminum with clear sealant Male: Die-cast zinc with clear sealant
Connector Insert Material	PVC
Contact Material	Gold over nickel-plated brass
Cable Type	Oil resistant PVC, 16 AWG stranded copper, 600V, UL Recognized and CSA Certified
Electrical	
Cable Rating	600V
Assembly Rating	600V, 10 A
Environmental	
Enclosure Type Rating	NEMA 6P; IP67; 1200 psi (8720 kPa) washdown
Cable Type	-30…+105 ° (-22…+221 °)

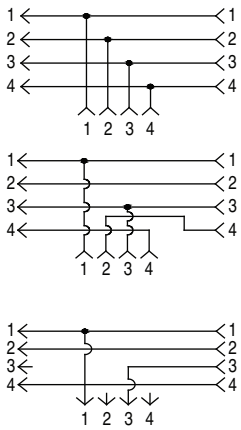
Approximate Dimensions

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



4-Pin Mini Style Power Trunk Tee

Wiring Diagrams

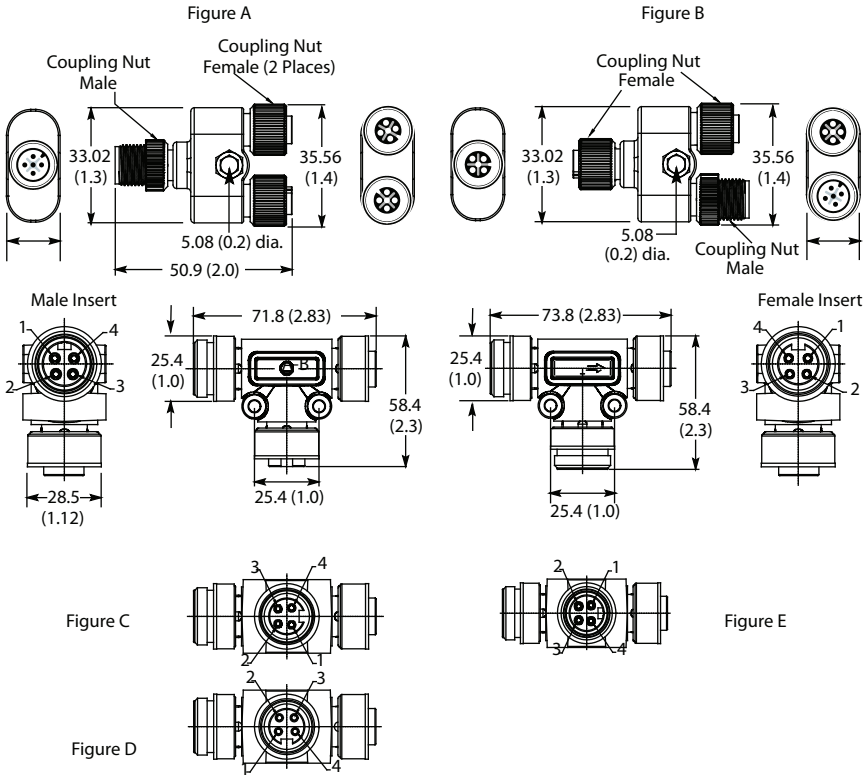


Specifications

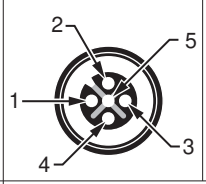
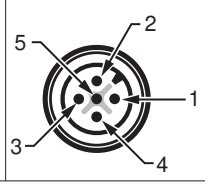
Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Connector Material	PUR
Contact Material	Gold over nickel-plated brass
Electrical	
Assembly Rating	250V, 4 A
Environmental	
Enclosure Type Rating	NEMA 6P, 12 and 13, IP67 (IEC 529), 1200 psi (8270 kPa) washdown
Operating Temperature [C (F)]	-20…+70 ° (-4…+158 °)

Approximate Dimensions

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



Pinout and Color Code

	Face View Pinout			
				
Color Code	**Mini Connector**		**Micro Connector**	
	Female	**Male**	**Female**	**Male**

Safety Shorting Plugs, Auxiliary Power
Single-Channel

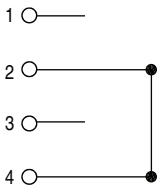
Male Shorting Plug

Specifications

Mechanical	
Coupling Nut Material	Epoxy-coated zinc
Material	Red Santoprene
Contact Material	Gold over nickel-plated brass
Electrical	
Assembly Rating	600V, 10 A
Environmental	
Enclosure Type Rating	NEMA 1, 2, 3, 4, 6P, 12, 13, IP 67, 1200 psi (8720 kPa) washdown
Operating Temperature [C (F)]	-25…+70 ° (-13…+158 °)

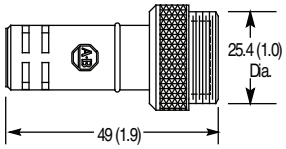
Pinout

Wiring Diagrams

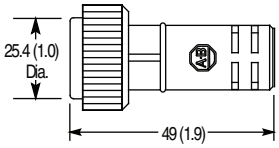


Approximate Dimensions

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



Male Mini Style Shorting Plug



Female Mini Style Shorting Plug

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