

DeviceNet Media System

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

Topic	Page
DeviceNet Flat Media System	2
DeviceNet Round Media	20
DeviceNet Auxiliary Power Round Media	35

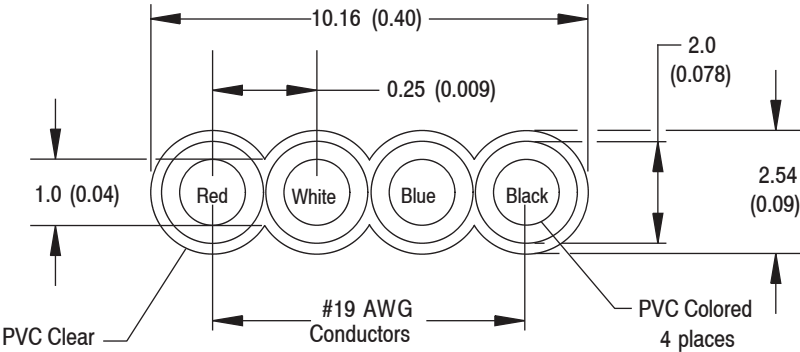


Specifications

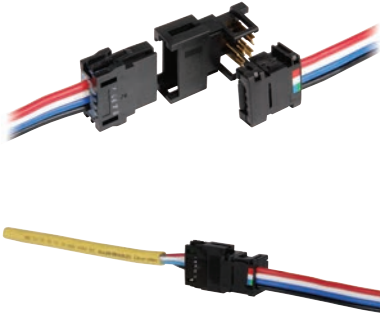
Certifications	UL and cUL Listed
Cable Type	4 conductor unshielded
Contact Material	Tinned annealed copper
Cable Rating	CL2 2c/AWG 19 and 2c/AWG 21 90°C, CL2 and CM Certified
Home Run Connection	26 mm (1.02 in.)
Operating Temperature [C (F)]	-10...+90 ° (14...194 °)

Approximate Dimensions

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



Trunk Line Connector, Drop-Line Connector, and Flat to Thin Round Converter IDC



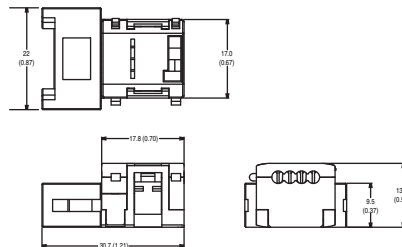
Specifications

Safety Ratings	
Certifications	UL Recognized
Physical Characteristics	
Connector Style	Housing: glass-fiber reinforced 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 °)

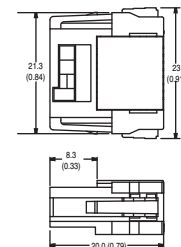
Approximate Dimensions

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

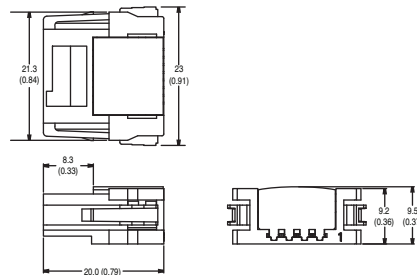
Trunk Line Connector



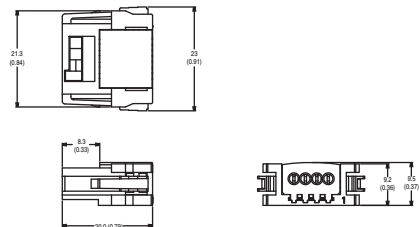
Drop Line Connector



Terminating Resistor

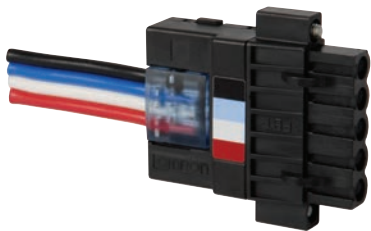


Flat Media to Round Converter



KwikLink™ Lite Flat Media

Five-Pin Open-Style Connector



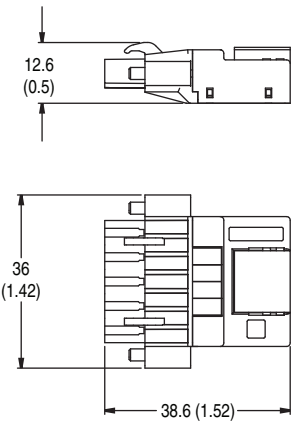
Open-Style Connector, IDC

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.





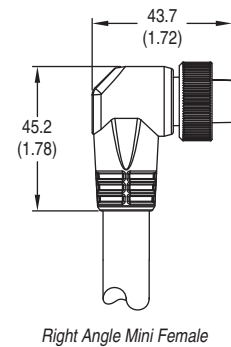
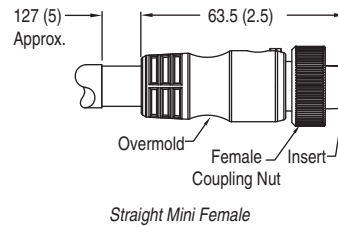
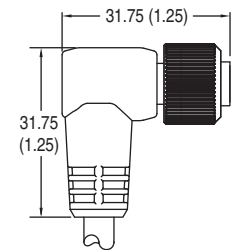
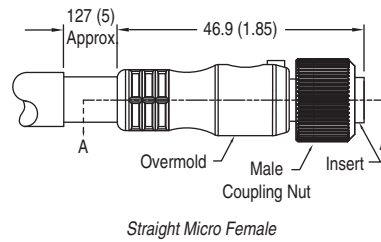
KwikLink Lite Drop Cordset

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.





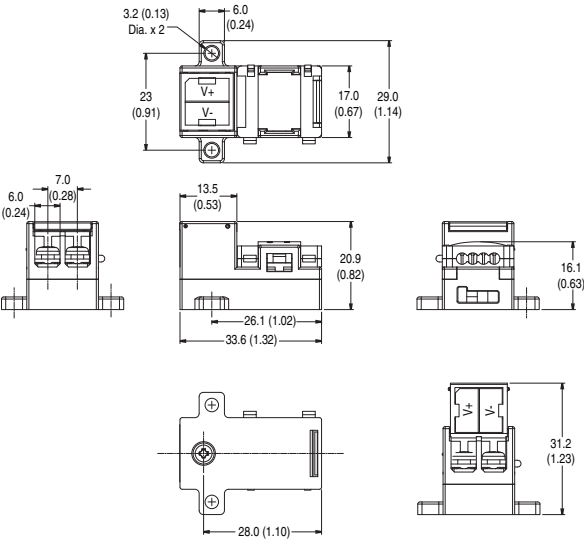
Power Input

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



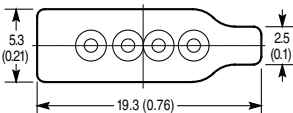
Auxiliary Power Flat Cable

Specifications

Certifications	UL Listed and CSA Certified
Cable Type	4-conductor unshielded
Cable Rating	CL1: 4C16, UL TC 600V 75C wet 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 Flat Media

Connectors



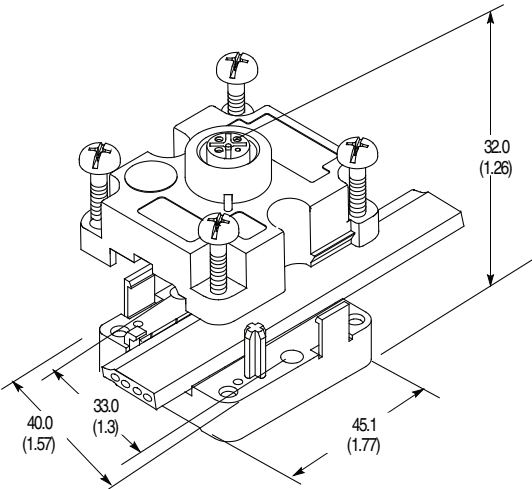
KwikLink General Purpose

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.





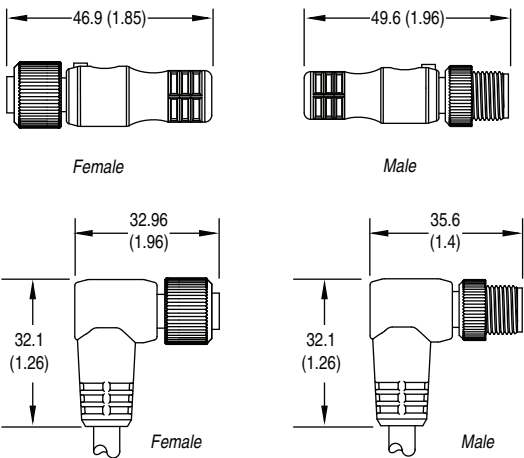
KwikLink Drop Cable

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.



KwikLink™ General Purpose Flat Media

Micro Auxiliary Power Cordsets & Patchcords



4-Pin DC Micro Patchcord

Wiring Diagrams

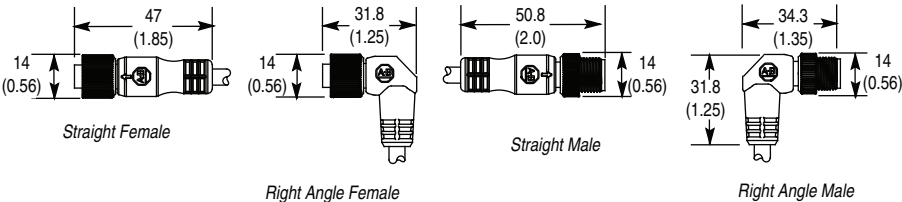
Male	Female
1 <---No connection---> 1	
2 <-----Brown-----> 2	
3 <-----Blue-----> 3	
4 <---No connection---> 4	
5 <---No connection---> 5	

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.





Class 1 Flat Cable



Class 2 Flat Cable



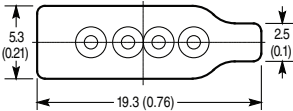
Auxiliary Power Flat Cable

Specifications

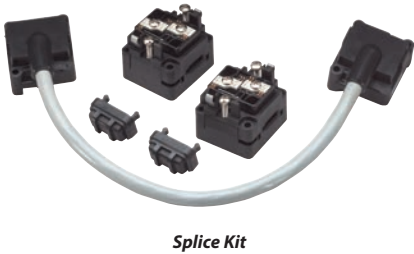
Certifications	UL Listed and CSA Certified
Cable Type	4-conductor unshielded
Cable Rating	CL1: 4C16, UL TC 600V 75C wet sunlight resistant, cUL FT4 CL2: 4C16, UL CL2 75C, CSA AWM I/II A/B 80C 300V FT4 Auxiliary Power: 4C16, UL TC 600V 75C wet sunlight resistant, cUL Type CIC TPE FT4
Operating Temperature [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



Specifications

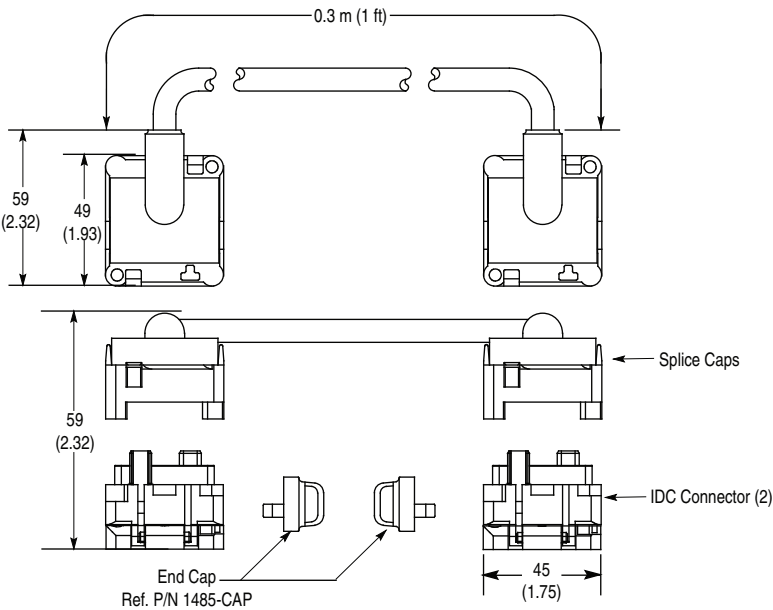
Storage Temperature [C (F)]	-40...+85 ° (-40...+185 °)
Operating Temperature [C (F)]	-25...+75 ° (-13...+167 °)
Enclosure Type Rating	Unsealed: NEMA 1; IP60 (IEC 529)
Vibration	1.5 mm displacement @ 10 500 Hz, 10 G peak, 3 planes
Material	Valox®
Jacket Material	Grey PVC
Dimensions	45 x 49 x 59 mm (1.8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

Wiring Diagrams

V+	(Red)	V+
Can-H	(White)	Can-H
Can-L	(Blue)	Can-L
V-	(Black)	V-
V+	(No Connection)	V+
Can-H	(White)	Can-H
Can-L	(Blue)	Can-L
V-	(Black)	V-

Approximate Dimensions

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



KwikLink™ Heavy Duty Flat Media Insulation Displacement Connectors



Micro Style IDC



Open Style IDC



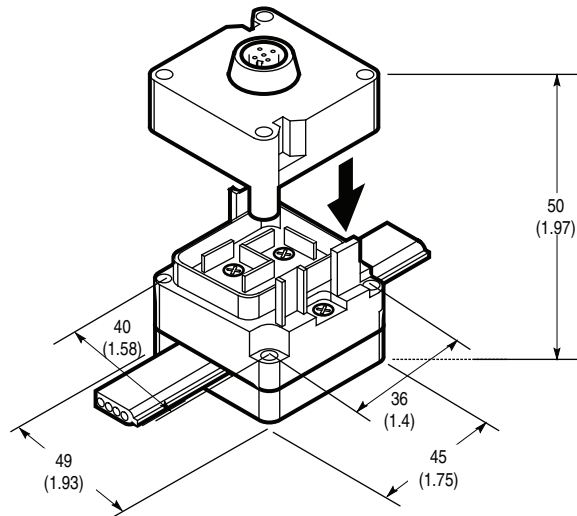
Terminator

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.



KwikLink™ Heavy Duty Flat Media

Pigtail Drop—Insulation Displacement Connectors



Mini Style Pigtail Drop IDC



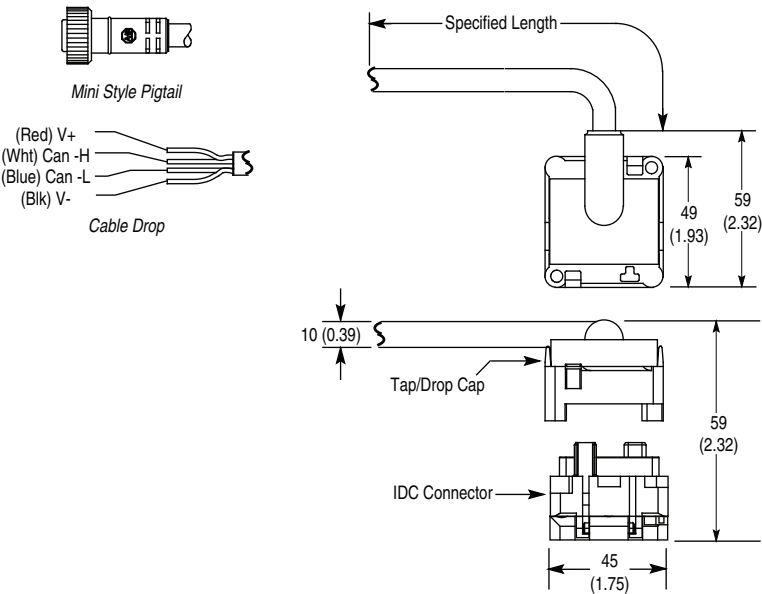
Cable Drop IDC

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.





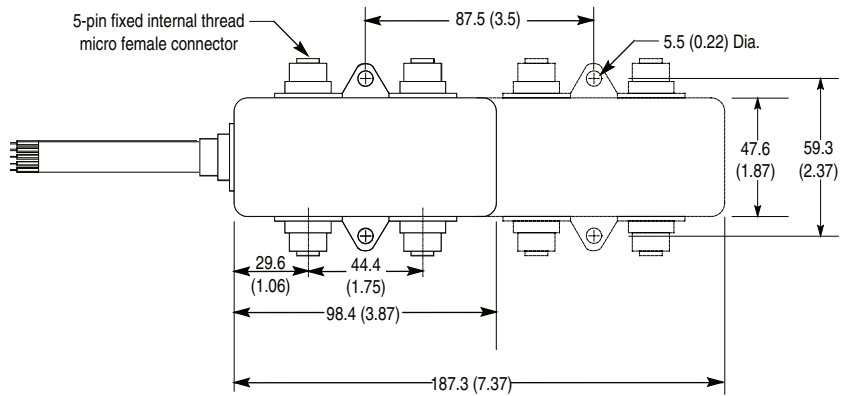
4- and 8-Port DevicePorts with Cable Drop

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™ Heavy Duty Flat Media Drop Cable



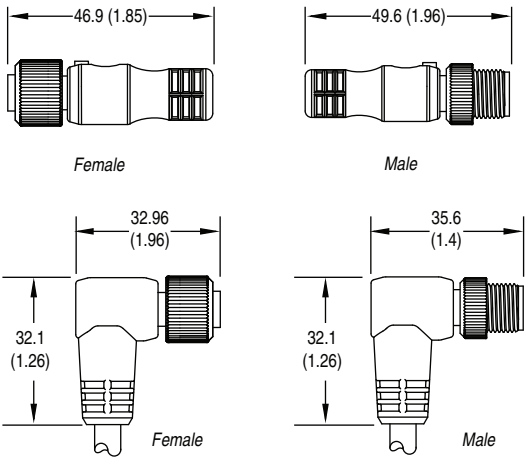
KwikLink Drop Cable

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.





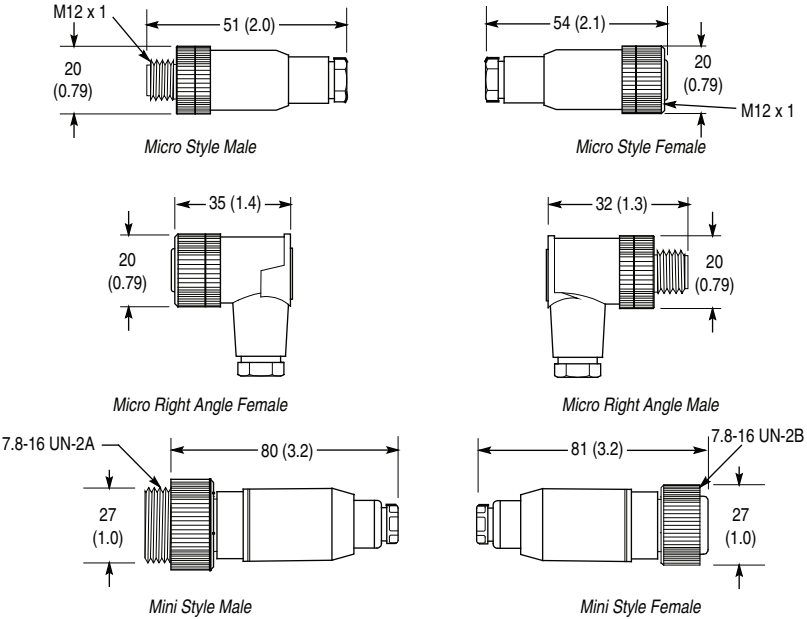
Straight Female Micro Style Terminal Chamber

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.



KwikLink™ Heavy Duty Flat Media

Micro Auxiliary Power Cordsets & Patchcords



4-Pin DC Micro Patchcord

Wiring Diagrams

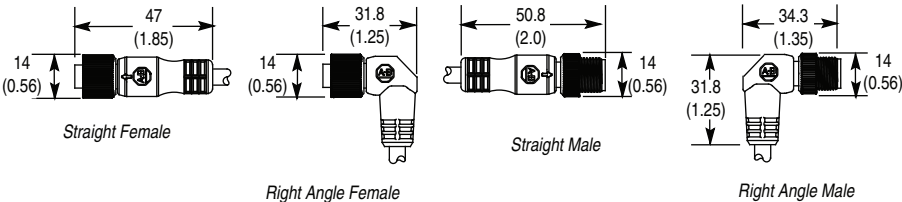
Male	Female
1 <--No connection--> 1	
2 <-----Brown-----> 2	
3 <-----Blue-----> 3	
4 <--No connection--> 4	
5 <--No connection--> 5	

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.



KwikLink™ Heavy Duty Flat Media Auxiliary Power Insulation Displacement Connectors



Specifications

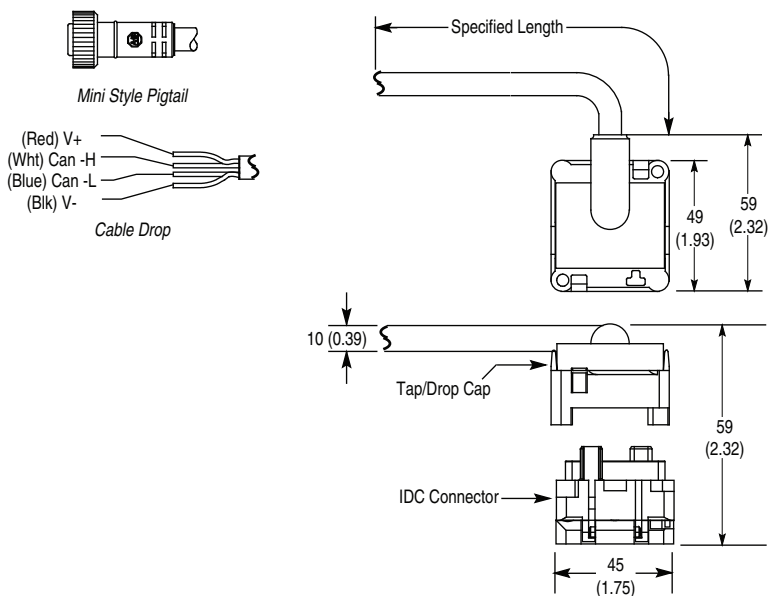
Cable Temperature [C (F)]	-25...+75 ° (-13...+167 °)
Enclosure Type Rating	NEMA 6P, 13; IP67 (IEC 529) and 1200 psi (8270 kPa) washdown
Vibration	1.5 mm displacement @ 10...500 Hz, 10 G peak, 3 planes
Material	Valox®
Cable Type	Oil resistant yellow PVC jacket, 16 AWG stranded copper, 600V, UL Recognized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

Approximate Dimensions

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

Wiring

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



Cordsets & Patchcords, Round Media Cable Spools

Thick Trunk Cable



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.

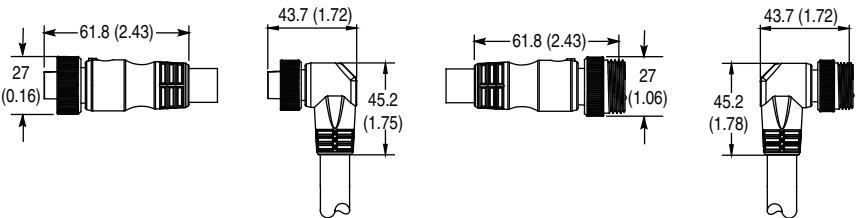
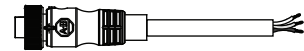


Figure A
Straight Female

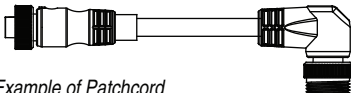
Figure B
Right Angle Female

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)