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The catalogue is for reference only. The final product is made according to actual
engineering drawing.

弊社標準品に関しては、修正や設計変更等が行われるため、カタログは参考であり、
詳細仕様は図面を基準とする。

本公司對產品保有修改、設變權，目錄僅供參考，實際產品仍需依照工程圖面
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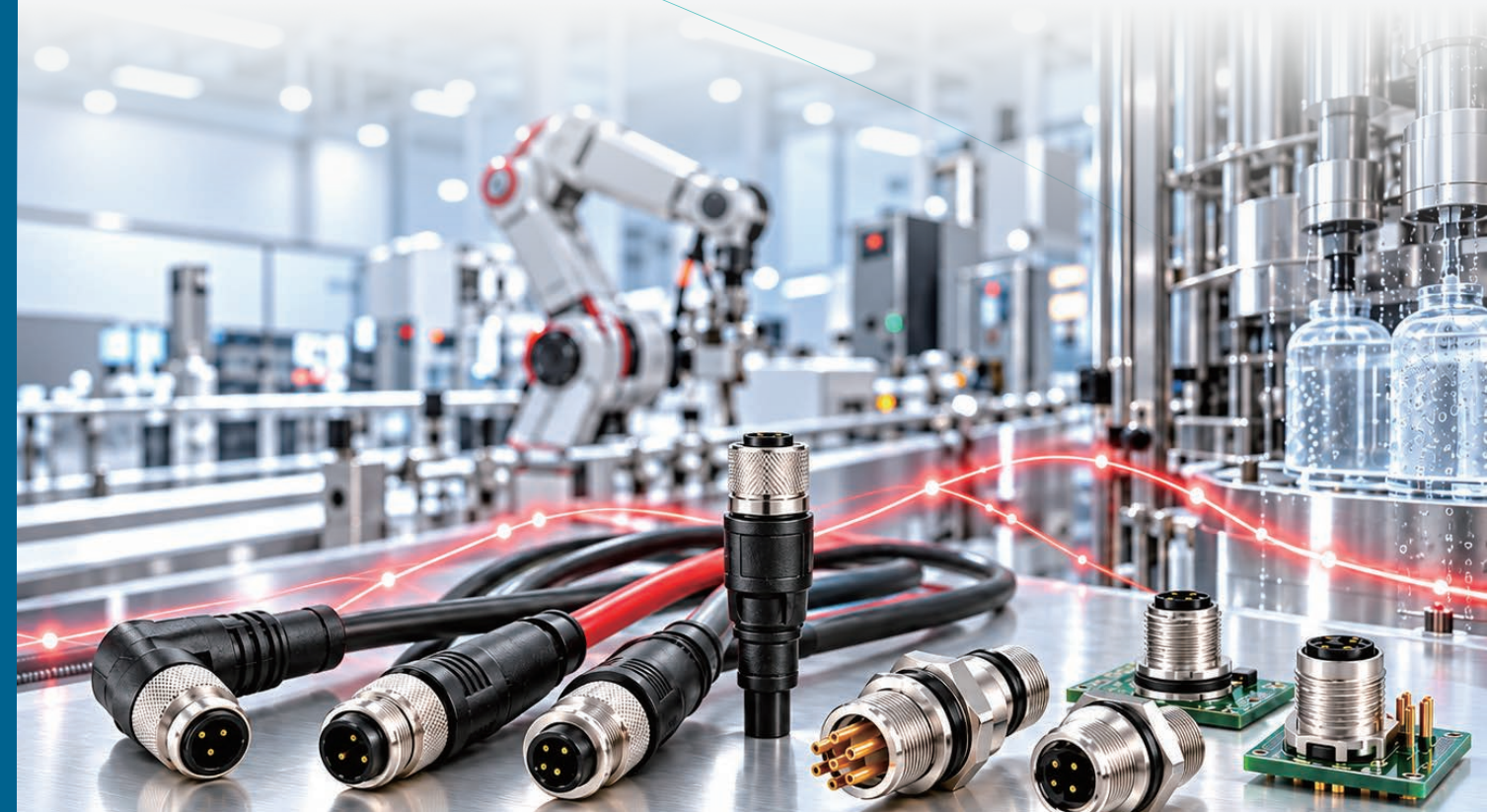
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Circular Connector

M5/M8/M12/M23/7/8" Series





Connecting with DINKLE, Linking Infinite Possibilities

Since its establishment in 1983, DINKLE has remained dedicated to the research, development, and manufacturing of terminal block technology. With high-quality products and efficient service, DINKLE has become a leading professional terminal block manufacturer in the industry. For more than four decades, we have upheld the value of “Joy through Connection,” earning the support and trust of customers across various industries in the global industrial automation field.

Quality is the foundation of DINKLE’s presence in the market. We are committed to fully automated production processes, from R&D and design, mold manufacturing, and stamping to electroplating. Every stage is strictly controlled, with expert-level quality control ensuring the reliability and stability of every product before it leaves the factory.

A comprehensive product portfolio is also one of DINKLE’s core strengths. Whether for precision connections in compact spaces or reliable high-current transmission, DINKLE offers suitable products that provide dependable solutions, ensuring that customers can find the most appropriate terminal block products within DINKLE’s product system for a wide range of project needs.

With large-scale production and an intelligent management system, DINKLE provides customers with a stable ready-stock supply system. We understand the importance of timeliness in the industrial sector. Through a well-established inventory system and an efficient supply chain, we significantly shorten project timelines and create greater value for our customers.

More than four decades of dedication reflect our focused commitment to the terminal block field. Looking ahead, we will continue to upgrade our high-quality control, diversified product lines, and fast response capabilities, striving to become the most reliable connecting force on your path forward.

Main Product Features

- Gold-plated contacts
- Pre-assembled cables for quick plug-and-connect installation
- Compliant with IP68 protection standards; waterproof and dustproof
- Resistant to vibration and impact
- Shielded versions available, with 360° interference protection
- Internationally compatible specifications
- Compliant with RoHS standards

Fast Field Electrical Connections

Ready for Any Challenge, with Ease and Confidence

As factory equipment becomes increasingly automated, reliable power, signal, and data transmission are essential, along with ready-to-use standardized wiring and customized dedicated cable solutions. Whether you need signal cables for sensors or Ethernet data cables with different coding types, DINKLE can provide the right solution for every application field.

M5–7/8" circular connectors and distribution boxes feature high stability and excellent sealing performance. They meet IP67 and above protection requirements, making them suitable for harsh industrial environments with humidity, temperature changes, and vibration. With pre-assembled cables for quick plug-and-connect installation, DINKLE offers straight, angled, and single-ended pre-assembled PVC and PUR cables, making field wiring faster and significantly improving overall productivity.

Product Advantages



Universal interface for convenient and fast assembly

- Gold-plated contacts for effective signal transmission and uninterrupted data transfer.
- IP68 high-level waterproof protection.



High vibration-resistant design

- Compliant with UL2237/UL2238 safety testing requirements to ensure trouble-free operation
- Designed in accordance with IEC 61076-2-101/104/111 standards, with 360° full shielding



Customized Services

- Multiple color options available
- Cable length and printing can be customized according to requirements, with PUR and PVC cable materials available



Index

General Signal & Power Drive

M5	A-Code	Molded Connector	Shield	P.4	
			No Shield	P.5	
		Device Connector	No Shield-Wire:PVC		P.8
		PCB Connector No Shield	One-piece (Wave soldering)	No Shield	P.10
M8	A-Code	Molded Connector	Shield	P.14	
			No Shield	P.15 - P.16	
		Device Connector	No Shield-Wire:PVC	P.20	
			No Shield-Solder cup		
		PCB Connector	One-piece (Wave soldering)	No Shield	P.23
		No Shield	Two-piece (SMT)	No Shield	P.26
	B-Code	Molded Connector	Shield	P.29	
			No Shield	P.30 - P.31	
		Device Connector	No Shield-Wire:PVC	P.34	
			No Shield-Solder cup		
PCB Connector		One-piece (Wave soldering)	No Shield	P.36	
No Shield					
M12	A-Code		Shield	P.40	
			No Shield	P.41	
		Molded Connector	No Shield-Drag chain	P.42	
			No Shield-Molded Y-Splitter	P.44	
			Shield - Molded Y-Splitter	P.44	
			Shield-PUR Cable	P.47	
		Device Connector	No Shield-Wire:PVC	P.48	
			No Shield-Solder cup		
		PCB Connector	One-piece (Wave soldering)	Shield / No Shield	P.52
		No Shield	Two-piece (THR / SMT)	Shield / No Shield	P.56
		No Shield-Drag chain	Solder	Shield / No Shield	P.59
		B-Code		Shield	P.62
			Molded Connector	No Shield	P.63
				No Shield-Drag chain	P.64
				Shield-PUR Cable	P.67
	Device Connector		No Shield-Wire:PVC	P.68	
			No Shield-Solder cup		
	PCB Connector		One-piece (Wave soldering)	Shield / No Shield	P.72
	No Shield		Two-piece (THR / SMT)	Shield / No Shield	P.76
	No Shield-Drag chain		Solder	Shield / No Shield	P.79
	D-Code		Shield	P.82	
		Molded Connector	No Shield	P.83	
			No Shield-Drag chain	P.84	
			Shield-PUR Cable	P.87	
		Device Connector	No Shield-Wire:PVC	P.88	
			No Shield-Solder cup		

Index

Universal Signal & Power

M12	D-Code	PCB Connector	One-piece (Wave soldering)	Shield / No Shield	P.92
			Two-piece (THR / SMT)	Shield / No Shield	P.96
		AssemblyConnector	Solder	Shield / No Shield	P.99
	S-Code	Molded Connector	No Shield		P.102
		Device Connector	No Shield-Wire:PVC		P.105
	T-Code	Molded Connector	No Shield		P.108
		Device Connector	No Shield-Wire:PVC		P.111
		PCB Connector	One-piece (Wave soldering)	Shield / No Shield	P.114
	X-Code	PCB Connector	Two-piece (THR / SMT)	Shield	P.117
	L-Code	Molded Connector	No Shield		P.120
		Device Connector	No Shield-Wire:PVC		P.123
		PCB Connector	One-piece (Wave soldering)	Shield / No Shield	P.126
			Two-piece (THR / SMT)	Shield / No Shield	P.129
	K-Code	Molded Connector	Shield / No Shield		P.132
		Device Connector	No Shield-Wire:PVC		P.135
	M-Code	Molded Connector	Shield / No Shield		P.138
		Device Connector	No Shield-Wire:PVC		P.141
M23	N-Code	Power	Power		P.145
		Signal	Signal		P.146
7/8"	A-Code	Molded Connector	No Shield		P.149
		Device Connector	No Shield-Wire:PVC		P.151
		PCB Connector	One-piece (Wave soldering)	No Shield	P.153
Distribution Box	Features & Products				P.154
	Dimension & Application				P.155
	Product Information				P.156

Industrial Ethernet

M12	A-Code	Molded Connector	Ethernet (PUR)	P.160
			CC-Link (PVC)	P.161
			CANopen (PUR)	
		Device Connector	Ethernet (PUR)	P.164
			CC-Link (PVC)	P.165
			CANopen (PUR)	
		PCB Connector	Ethernet (PUR)	P.168
			CC-Link (PVC)	
			CANopen (PUR)	
	B-Code	Molded Connector	PROFIBUS (PUR)	P.171
		Device Connector	PROFIBUS (PUR)	P.174
		PCB Connector	PROFIBUS (PUR)	P.177
	D-Code	Molded Connector	PROFINET (PVC)	P.180
			Ethernet (PUR)	
		Device Connector	PROFINET (PVC)	P.183
			Ethernet (PUR)	

Index

Industrial Ethernet

M12	D-Code	PCB Connector	PROFINET (PVC)	P.185
			Ethernet (PUR)	
	X-Code	Device Connector	Ethernet (PUR)	P.188
		PCB Connector	Ethernet (PUR)	P.190
Functional				
M8	A-Code	Molded Connector	Ethernet (PUR)	P.194
	A-Code	Molded Connector	Ethernet (PUR)	P.197
		Device Connector	Ethernet (PUR)	P.200
M12	D-Code	Molded Connector	PROFINET (PVC)	P.203
			Ethernet (PUR)	
	D-Code	Device Connector	PROFINET (PVC)	P.206
			Ethernet (PUR)	
	X-Code	Molded Connector	Ethernet (PUR)	P.209
Accessories				P.210

M5 Circular Connector

In addition to high reliability and airtightness, DINKLE's M5 circular connectors feature a compact form factor suitable for space-constrained equipment, providing more communication contact points within a limited space.

For a wide range of industrial applications, DINKLE offers high-quality PVC and PUR cables to meet your requirements. PVC cables are an excellent choice for most chemical washdown applications in the food and beverage industries; PUR cables resist cutting fluids, oils, and other aggressive chemicals while providing high tensile strength, abrasion resistance, and flex resistance, making them suitable for high-frequency motion applications such as robotic arms.

When installed with a sealing ring, M5 panel-mount circular connectors provide high airtightness and water resistance, enabling them to withstand harsh industrial automation environments. DINKLE offers both front-mount and rear-mount versions in its panel-mount product line.

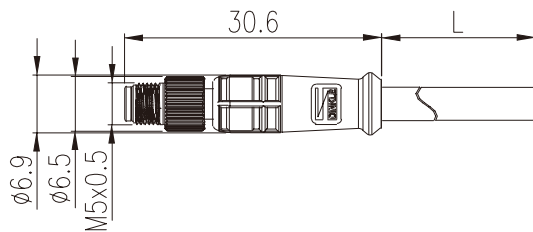
DINKLE also offers M5 one-piece PCB circular connectors. Their integrated housing and internal structure simplify installation while improving connection stability and structural integrity, making them particularly suitable for industrial automation and miniature electronic devices.

M5 circular connectors are available with A-Code coding for data and signal transmission in automation control systems. 3- and 4-pin options are available, providing greater design flexibility for your equipment.

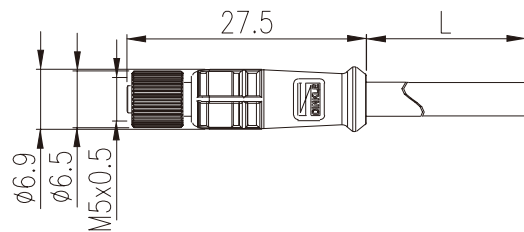


M5 A-Code Molded Circular Connector

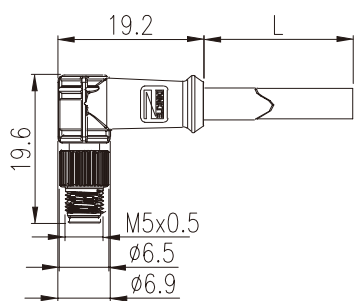
Single-ended straight Male



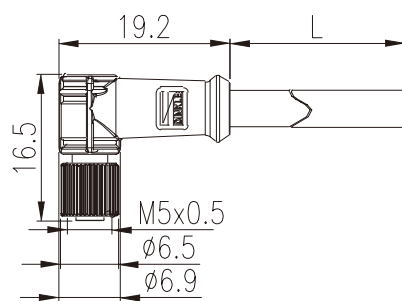
Single-ended straight Female



Single-ended angled Male



Single-ended angled Female

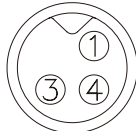
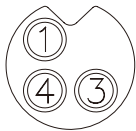
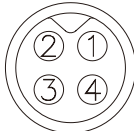
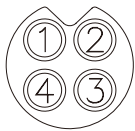


Unit : mm

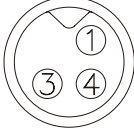
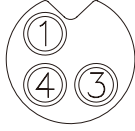
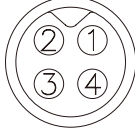
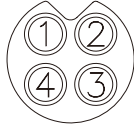
M5 A-Code Molded Connector

Mechanical Properties		Material Properties		
Min.Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated	
Degree of Protection	IP67	Contact Carrier / Overmolding	PUR	
Operating Temperature	-40℃ ~ 80℃ (Fixed Installation)	O-ring	NBR	
	-25℃~ 80℃ (Flexible Installation)	Cable gland material	Copper Alloy, Nickel-Plated	
Fasten torque	0.3 Nm	UL94 Flammability rating	HB	
Electrical Properties		Cable Information		
Rated Voltage / Rated Current	60VDC / 1A (3 Pin)	Cable Jacket	PUR / PVC, BLACK	
	60VDC / 1A (4 Pin)	UL AWM Style	Shield	PUR : UL AWM 20549 / PVC : UL AWM 2464
Rated Impulse Voltage	1.5kV (3 Pin)		No Shield	PUR : UL AWM 20549 / PVC : UL AWM 2464
	1.5kV (4 Pin)	Conductor Cross-section	0.14mm ² / 26AWG (3 Pin)	
Insulation Resistance	Min.100MΩ		0.14mm ² / 26AWG (4 Pin)	
Overvoltage Category	II	Material Conductor Insulation	PP	
Pollution Degree	3	Flame Resistance	FT-2 / VW-1	
		Dielectric Strength	2.0KV/1min	
Standards and Regulations				
Design reference	IEC 61076-2-105: Detail specification for M5 connectors with screw-locking			
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods			
	IEC 60529: Degree of protection provided by enclosures (IP Code)			
Certification reference	UL 2238			
Notice				
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.				

M5 A-Code Molded Connector (Shielded)

Coding and contacts			Code	A		A	
			Contacts	3		4	
Rated Voltage / Current			60V / 1A		60V / 1A		
Contact Arrangement			Male	Female	Male	Female	
							
Connector Style	Cable	Length (m)	Part Number				
	PVC	2	151-A3010-15S020		151-A4010-15S020		
		5	151-A3010-15S050		151-A4010-15S050		
		10	151-A3010-15S100		151-A4010-15S100		
	PUR	2	151-A3010-05S020		151-A4010-05S020		
		5	151-A3010-05S050		151-A4010-05S050		
		10	151-A3010-05S100		151-A4010-05S100		
	PVC	2	152-A3010-15S020		152-A4010-15S020		
		5	152-A3010-15S050		152-A4010-15S050		
		10	152-A3010-15S100		152-A4010-15S100		
	PUR	2	152-A3010-05S020		152-A4010-05S020		
		5	152-A3010-05S050		152-A4010-05S050		
		10	152-A3010-05S100		152-A4010-05S100		
	PVC	2	153-A3010-15S020		153-A4010-15S020		
		5	153-A3010-15S050		153-A4010-15S050		
		10	153-A3010-15S100		153-A4010-15S100		
	PUR	2	153-A3010-05S020		153-A4010-05S020		
		5	153-A3010-05S050		153-A4010-05S050		
		10	153-A3010-05S100		153-A4010-05S100		
	PVC	2	154-A3010-15S020		154-A4010-15S020		
		5	154-A3010-15S050		154-A4010-15S050		
		10	154-A3010-15S100		154-A4010-15S100		
	PUR	2	154-A3010-05S020		154-A4010-05S020		
		5	154-A3010-05S050		154-A4010-05S050		
		10	154-A3010-05S100		154-A4010-05S100		

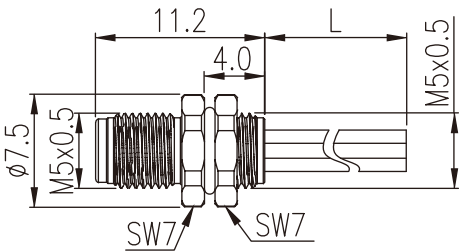
M5 A-Code Molded Connector (No Shield)

Coding and contacts		Code	A		A	
		Contacts	3		4	
Rated Voltage / Current			60V / 1A		60V / 1A	
Contact Arrangement			Male	Female	Male	Female
						
Connector Style	Cable	Length (m)	Part Number			
Single-ended straight Male 	PVC	2	101-A3010-10S020		101-A4010-10S020	
		5	101-A3010-10S050		101-A4010-10S050	
		10	101-A3010-10S100		101-A4010-10S100	
	PUR	2	101-A3010-00S020		101-A4010-00S020	
		5	101-A3010-00S050		101-A4010-00S050	
		10	101-A3010-00S100		101-A4010-00S100	
Single-ended straight Female 	PVC	2	102-A3010-10S020		102-A4010-10S020	
		5	102-A3010-10S050		102-A4010-10S050	
		10	102-A3010-10S100		102-A4010-10S100	
	PUR	2	102-A3010-00S020		102-A4010-00S020	
		5	102-A3010-00S050		102-A4010-00S050	
		10	102-A3010-00S100		102-A4010-00S100	
Single-ended angled Male 	PVC	2	103-A3010-10S020		103-A4010-10S020	
		5	103-A3010-10S050		103-A4010-10S050	
		10	103-A3010-10S100		103-A4010-10S100	
	PUR	2	103-A3010-00S020		103-A4010-00S020	
		5	103-A3010-00S050		103-A4010-00S050	
		10	103-A3010-00S100		103-A4010-00S100	
Single-ended angled Female 	PVC	2	104-A3010-10S020		104-A4010-10S020	
		5	104-A3010-10S050		104-A4010-10S050	
		10	104-A3010-10S100		104-A4010-10S100	
	PUR	2	104-A3010-00S020		104-A4010-00S020	
		5	104-A3010-00S050		104-A4010-00S050	
		10	104-A3010-00S100		104-A4010-00S100	

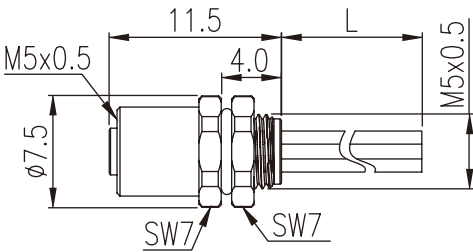
M5 A-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male

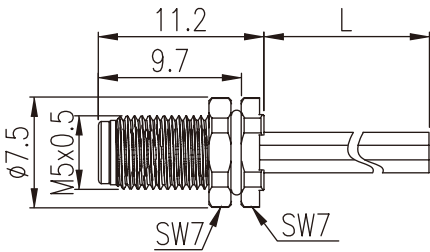


Female

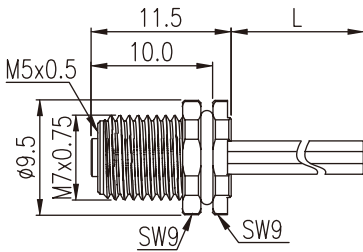


Rear-mounting with 0.5m Wires

Male



Female



Pin Assignments and Wire Colors

Pin arrangement				
	3P		4P	
Pin out	A code		A code	
	1	Brown	1	Brown
	2	-	2	White
	3	Blue	3	Blue
	4	Black	4	Black

M5 A-Code Device Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier / Overmolding	PA
Operating Temperature	-40℃ ~ 80℃	O-ring	Copper Alloy, Nickel-Plated
Fasten torque	0.3 N·m	Cable gland material	NBR
Mounting Torque	0.6 N·m	UL94 Flammability rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	60VDC / 1A (3 Pin)	Cable Jacket	PVC
	60VDC / 1A (4 Pin)	UL AWM Style	PVC : UL 1061
Rated Impulse Voltage	1.5kV (3 Pin)	Conductor Cross-section	0.14mm ² / 26AWG (3 Pin)
	1.5kV (4 Pin)		0.14mm ² / 26AWG (4 Pin)
Insulation Resistance	Min.100MΩ	Material Conductor Insulation	PVC
Overvoltage Category	II	Flame Resistance	FT-2 / VW-1
Pollution Degree	3	Dielectric Strength	NA
Standards and Regulations			
Design reference	IEC 61076-2-105: Detail specification for M5 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

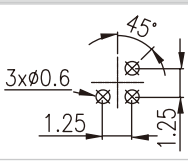
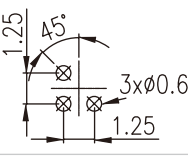
M5 A-Code Device Connector (No Shield)

Coding and contacts	Code	A		A	
	Contacts	3		4	
Rated Voltage / Current		60V / 1A		60V / 1A	
Contact Arrangement		Male	Female	Male	Female
					
Front-mounting with 0.5m conductor					
Connector Style	Mount Thread	Part Number			
Male 	M5 X 0.5	118-A3010-0VSL50		118-A4010-0VSL50	
Female 	M5 X 0.5	119-A3010-0VSL50		119-A4010-0VSL50	
Rear-mounting with 0.5m conductor					
Connector Style	Mount Thread	Part Number			
Male 	M5 X 0.5	120-A3010-0VSL50		120-A4010-0VSL50	
Female 	M7 X 0.75	121-A3011-0VSL50		121-A4011-0VSL50	

Wire lengths can be customized to your requirements. Please contact us for details.

M5 A-Code One-piece PCB Circular Connector

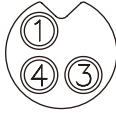
Straight Pin Orientation, Rear-mounting (No Shield)

Male	PCB Layout	
	Pin out	
	Pin arrangement	 3P
A code		
Female	PCB Layout	
	Pin out	
	Pin arrangement	 3P
A code		

M5 A-Code One-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40°C ~ 80°C	Hexigonal nut / Outer Shield	Copper Alloy, Nickel-Plated
Fasten torque	0.3 Nm	O-ring	NBR
Soldering Method	Wave Soldering	UL94 Flammability rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	60VDC / 1A (3 Pin)		
	60VDC / 1A (4 Pin)		
Rated Impulse Voltage	1.5kV (3 Pin)		
	1.5kV (4 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-105: Detail specification for M5 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M5 A-Code One-piece PCB Connector (No Shield)

Coding and contacts	Code	A		A	
	Contacts	3		4	
Rated Voltage / Current		60V / 1A		60V / 1A	
Contact Arrangement		Male	Female	Male	Female
					
Rear-mounting, Straight, No Shield					
Connector Style	Mount Thread	Part Number			
Male 	M5 X 0.5	126-A3010-1		126-A4010-1	
Female 	M7 X 0.75	127-A3011-1		127-A4011-1	

M8 Circular Connector

DINKLE's M8 molded circular connectors combine a compact form factor, a high degree of protection, durability, and easy installation, making them ideal for industrial automation, sensors, and control systems. Their corrosion-resistant materials and multiple coding options ensure stable operation and high-quality signal transmission in harsh industrial environments. DINKLE offers high-quality PVC and PUR cables for a wide range of industrial applications. Shielded cables with a tinned-copper braid are also available to improve electromagnetic shielding and noise immunity, effectively suppressing interference in electrically noisy environments and ensuring reliable communication between sensors and actuators. Drag-chain cables are also available and are rated for 5 million bending cycles (R=28 mm, L=1 m, V=1 m/s).

M8 one-piece PCB circular connectors feature an industry-standard metric threaded connection and an IP68 degree of protection, enabling signals, data, and power to be transmitted directly and securely to the PCB. M5, M8, and M12 PCB circular connectors all use corrosion-resistant nickel-plated metal housings and sealing rings to provide reliable protection for your equipment.

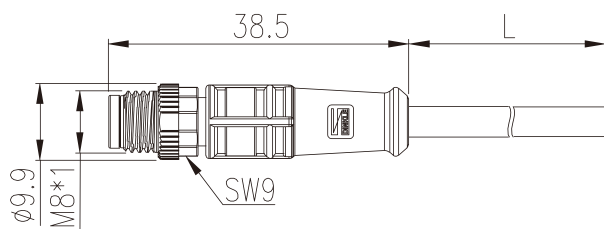
M8 two-piece PCB circular connectors use the SMT process, unlike earlier through-hole components assembled by wave soldering. SMT significantly reduces the size of electronic products, enabling lighter, thinner, shorter, and more compact designs. SMT also offers high reliability, strong vibration resistance, a low solder-joint defect rate, good high-frequency performance, high assembly density, compact product size, and ease of automation.

DINKLE's M8 circular connector series is available with coding options such as A and B, providing greater design flexibility for your equipment.

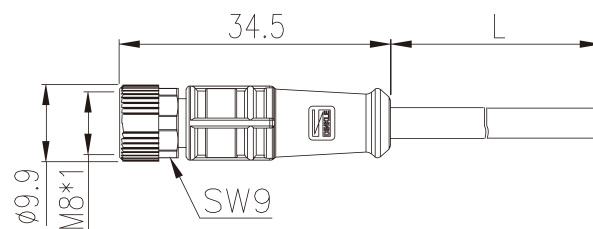


M8 A-Code Molded Circular Connector

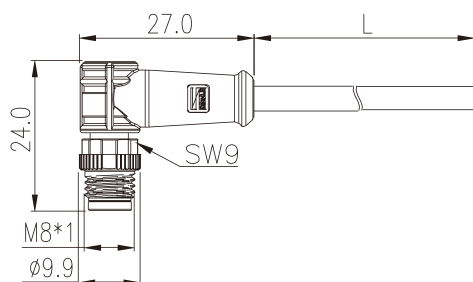
Single-ended straight Male



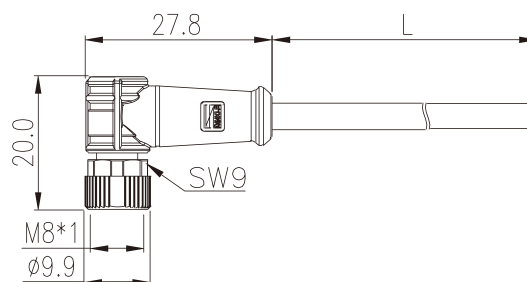
Single-ended straight Female



Single-ended angled Male

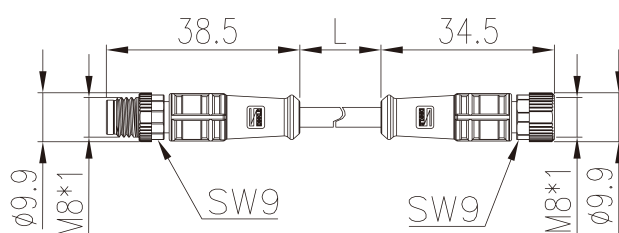


Single-ended angled Female

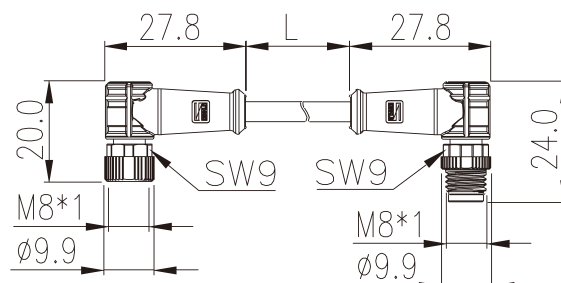


Unit : mm

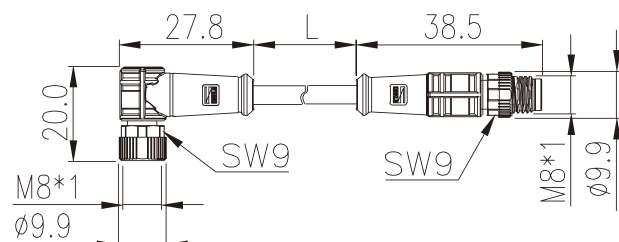
Straight Male + Straight Female



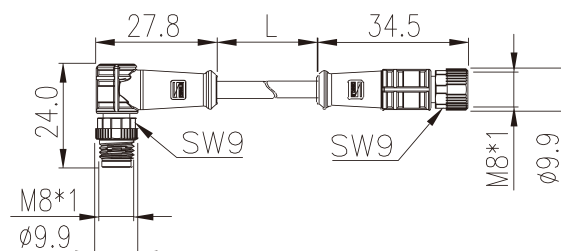
Angled Male + Angled Female



Straight Male + Angled Female



Angled Male + Straight Female



Unit : mm

M8 A-Code Molded Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier / Overmolding	PUR / PUR
Operating Temperature	-40℃ ~ 80℃ (Fixed Installation)	O-ring	NBR
	-25℃ ~ 80℃ (Flexible Installation)	Cable gland material	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.3 Nm	UL 94 Flammability Rating	HB
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	60VAC / 4A (≤4 Pin)	Cable Jacket	PUR / PVC, BLACK
	30VAC / 1.5A (6 Pin)	UL AWM Style	Shield PUR : UL AWM 20549 / PVC : UL AWM 2464
	30VAC / 1.5A (8 Pin)		No Shield PUR : UL AWM 20549 / PVC : UL AWM 2464
Rated Impulse Voltage	1.5kV (≤4 Pin)	Conductor Cross-section	0.20mm ² / 24AWG (≤4 Pin)
	0.8kV (6 Pin)		0.14mm ² / 26AWG (6 Pin)
	0.8kV (8 Pin)		0.14mm ² / 26AWG (8 Pin)
Insulation Resistance	Min.100MΩ	Material Conductor Insulation	PP
Overvoltage Category	II	Flame Resistance	FT-2 / VW-1
Pollution Degree	3	Dielectric Strength	2.0KV/1min
Standards and Regulations			
Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Design reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M8 A-Code Molded Connector (Shielded)

Coding and contacts			Code	A		A		A		A	
			Contacts	3	4	4	4	6	6	8	8
Rated Voltage / Current				60V / 4A		60V / 4A		30V / 1.5A		30V / 1.5A	
Contact Arrangement				Male	Female	Male	Female	Male	Female	Male	Female
											
Connector Style	Cable	Length (m)	Part Number								
	PVC	2	351-A3A00-15S020	351-A4A00-15S020				351-A6000-15S020		351-A8000-15S020	
		5	351-A3A00-15S050	351-A4A00-15S050				351-A6000-15S050		351-A8000-15S050	
		10	351-A3A00-15S100	351-A4A00-15S100				351-A6000-15S100		351-A8000-15S100	
	PUR	2	351-A3A00-05S020	351-A4A00-05S020				351-A6000-05S020		351-A8000-05S020	
		5	351-A3A00-05S050	351-A4A00-05S050				351-A6000-05S050		351-A8000-05S050	
		10	351-A3A00-05S100	351-A4A00-05S100				351-A6000-05S100		351-A8000-05S100	
	PVC	2	352-A3A00-15S020	352-A4A00-15S020				352-A6000-15S020		352-A8000-15S020	
		5	352-A3A00-15S050	352-A4A00-15S050				352-A6000-15S050		352-A8000-15S050	
		10	352-A3A00-15S100	352-A4A00-15S100				352-A6000-15S100		352-A8000-15S100	
	PUR	2	352-A3A00-05S020	352-A4A00-05S020				352-A6000-05S020		352-A8000-05S020	
		5	352-A3A00-05S050	352-A4A00-05S050				352-A6000-05S050		352-A8000-05S050	
		10	352-A3A00-05S100	352-A4A00-05S100				352-A6000-05S100		352-A8000-05S100	
	PVC	2	353-A3A00-15S020	353-A4A00-15S020				353-A6000-15S020		353-A8000-15S020	
		5	353-A3A00-15S050	353-A4A00-15S050				353-A6000-15S050		353-A8000-15S050	
		10	353-A3A00-15S100	353-A4A00-15S100				353-A6000-15S100		353-A8000-15S100	
	PUR	2	353-A3A00-05S020	353-A4A00-05S020				353-A6000-05S020		353-A8000-05S020	
		5	353-A3A00-05S050	353-A4A00-05S050				353-A6000-05S050		353-A8000-05S050	
		10	353-A3A00-05S100	353-A4A00-05S100				353-A6000-05S100		353-A8000-05S100	
	PVC	2	354-A3A00-15S020	354-A4A00-15S020				354-A6000-15S020		354-A8000-15S020	
		5	354-A3A00-15S050	354-A4A00-15S050				354-A6000-15S050		354-A8000-15S050	
		10	354-A3A00-15S100	354-A4A00-15S100				354-A6000-15S100		354-A8000-15S100	
	PUR	2	354-A3A00-05S020	354-A4A00-05S020				354-A6000-05S020		354-A8000-05S020	
		5	354-A3A00-05S050	354-A4A00-05S050				354-A6000-05S050		354-A8000-05S050	
		10	354-A3A00-05S100	354-A4A00-05S100				354-A6000-05S100		354-A8000-05S100	
	PVC	0.6	356-A3A00-15SL60	356-A4A00-15SL60				356-A6000-15SL60		356-A8000-15SL60	
		1.5	356-A3A00-15S015	356-A4A00-15S015				356-A6000-15S015		356-A8000-15S015	
		3	356-A3A00-15S030	356-A4A00-15S030				356-A6000-15S030		356-A8000-15S030	
	PUR	0.6	356-A3A00-05SL60	356-A4A00-05SL60				356-A6000-05SL60		356-A8000-05SL60	
		1.5	356-A3A00-05S015	356-A4A00-05S015				356-A6000-05S015		356-A8000-05S015	
		3	356-A3A00-05S030	356-A4A00-05S030				356-A6000-05S030		356-A8000-05S030	
	PVC	0.6	359-A3A00-15SL60	359-A4A00-15SL60				359-A6000-15SL60		359-A8000-15SL60	
		1.5	359-A3A00-15S015	359-A4A00-15S015				359-A6000-15S015		359-A8000-15S015	
		3	359-A3A00-15S030	359-A4A00-15S030				359-A6000-15S030		359-A8000-15S030	
	PUR	0.6	359-A3A00-05SL60	359-A4A00-05SL60				359-A6000-05SL60		359-A8000-05SL60	
		1.5	359-A3A00-05S015	359-A4A00-05S015				359-A6000-05S015		359-A8000-05S015	
		3	359-A3A00-05S030	359-A4A00-05S030				359-A6000-05S030		359-A8000-05S030	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M8 A-Code Molded Connector (No Shield)

Coding and contacts			Code	A		A		A		A	
			Contacts	3		4		6		8	
Rated Voltage / Current			60V / 4A		60V / 4A		30V / 1.5A		30V / 1.5A		
Contact Arrangement			Male	Female	Male	Female	Male	Female	Male	Female	
											
Connector Style	Cable	Length (m)		 Part Number							
	PVC	2		301-A3A00-10S020	301-A4A00-10S020	301-A6000-10S020		301-A8000-10S020			
		5		301-A3A00-10S050	301-A4A00-10S050	301-A6000-10S050		301-A8000-10S050			
		10		301-A3A00-10S100	301-A4A00-10S100	301-A6000-10S100		301-A8000-10S100			
	PUR	2		301-A3A00-00S020	301-A4A00-00S020	301-A6000-00S020		301-A8000-00S020			
		5		301-A3A00-00S050	301-A4A00-00S050	301-A6000-00S050		301-A8000-00S050			
		10		301-A3A00-00S100	301-A4A00-00S100	301-A6000-00S100		301-A8000-00S100			
	PVC	2		302-A3A00-10S020	302-A4A00-10S020	302-A6000-10S020		302-A8000-10S020			
		5		302-A3A00-10S050	302-A4A00-10S050	302-A6000-10S050		302-A8000-10S050			
		10		302-A3A00-10S100	302-A4A00-10S100	302-A6000-10S100		302-A8000-10S100			
	PUR	2		302-A3A00-00S020	302-A4A00-00S020	302-A6000-00S020		302-A8000-00S020			
		5		302-A3A00-00S050	302-A4A00-00S050	302-A6000-00S050		302-A8000-00S050			
		10		302-A3A00-00S100	302-A4A00-00S100	302-A6000-00S100		302-A8000-00S100			
	PVC	2		303-A3A00-10S020	303-A4A00-10S020	303-A6000-10S020		303-A8000-10S020			
		5		303-A3A00-10S050	303-A4A00-10S050	303-A6000-10S050		303-A8000-10S050			
		10		303-A3A00-10S100	303-A4A00-10S100	303-A6000-10S100		303-A8000-10S100			
	PUR	2		303-A3A00-00S020	303-A4A00-00S020	303-A6000-00S020		303-A8000-00S020			
		5		303-A3A00-00S050	303-A4A00-00S050	303-A6000-00S050		303-A8000-00S050			
		10		303-A3A00-00S100	303-A4A00-00S100	303-A6000-00S100		303-A8000-00S100			
	PVC	2		304-A3A00-10S020	304-A4A00-10S020	304-A6000-10S020		304-A8000-10S020			
		5		304-A3A00-10S050	304-A4A00-10S050	304-A6000-10S050		304-A8000-10S050			
		10		304-A3A00-10S100	304-A4A00-10S100	304-A6000-10S100		304-A8000-10S100			
	PUR	2		304-A3A00-00S020	304-A4A00-00S020	304-A6000-00S020		304-A8000-00S020			
		5		304-A3A00-00S050	304-A4A00-00S050	304-A6000-00S050		304-A8000-00S050			
		10		304-A3A00-00S100	304-A4A00-00S100	304-A6000-00S100		304-A8000-00S100			
 	PVC	0.6		306-A3A00-10SL60	306-A4A00-10SL60	306-A6000-10SL60		306-A8000-10SL60			
		1.5		306-A3A00-10S015	306-A4A00-10S015	306-A6000-10S015		306-A8000-10S015			
		3		306-A3A00-10S030	306-A4A00-10S030	306-A6000-10S030		306-A8000-10S030			
	PUR	0.6		306-A3A00-00SL60	306-A4A00-00SL60	306-A6000-00SL60		306-A8000-00SL60			
		1.5		306-A3A00-00S015	306-A4A00-00S015	306-A6000-00S015		306-A8000-00S015			
		3		306-A3A00-00S030	306-A4A00-00S030	306-A6000-00S030		306-A8000-00S030			
 	PVC	0.6		309-A3A00-10SL60	309-A4A00-10SL60	309-A6000-10SL60		309-A8000-10SL60			
		1.5		309-A3A00-10S015	309-A4A00-10S015	309-A6000-10S015		309-A8000-10S015			
		3		309-A3A00-10S030	309-A4A00-10S030	309-A6000-10S030		309-A8000-10S030			
	PUR	0.6		309-A3A00-00SL60	309-A4A00-00SL60	309-A6000-00SL60		309-A8000-00SL60			
		1.5		309-A3A00-00S015	309-A4A00-00S015	309-A6000-00S015		309-A8000-00S015			
		3		309-A3A00-00S030	309-A4A00-00S030	309-A6000-00S030		309-A8000-00S030			

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M8 A-Code Drag Chain Molded Connector (No Shield)

Coding and contacts		Code	A		A		A		A	
		Contacts	3		4		6		8	
Rated Voltage / Current			60V / 4A		60V / 4A		30V / 1.5A		30V / 1.5A	
Contact Arrangement			Male	Female	Male	Female	Male	Female	Male	Female
										
Connector Style	Cable	Length (m)		Part Number						
Single-ended straight Male  	PUR	2		301-A3A00-02S020	301-A4A00-02S020	301-A6000-02S020	301-A8000-02S020			
		5		301-A3A00-02S050	301-A4A00-02S050	301-A6000-02S050	301-A8000-02S050			
		10		301-A3A00-02S100	301-A4A00-02S100	301-A6000-02S100	301-A8000-02S100			
Single-ended straight Female  	PUR	2		302-A3A00-02S020	302-A4A00-02S020	302-A6000-02S020	302-A8000-02S020			
		5		302-A3A00-02S050	302-A4A00-02S050	302-A6000-02S050	302-A8000-02S050			
		10		302-A3A00-02S100	302-A4A00-02S100	302-A6000-02S100	302-A8000-02S100			
Single-ended angled Male  	PUR	2		303-A3A00-02S020	303-A4A00-02S020	303-A6000-02S020	303-A8000-02S020			
		5		303-A3A00-02S050	303-A4A00-02S050	303-A6000-02S050	303-A8000-02S050			
		10		303-A3A00-02S100	303-A4A00-02S100	303-A6000-02S100	303-A8000-02S100			
Single-ended angled Female  	PUR	2		304-A3A00-02S020	304-A4A00-02S020	304-A6000-02S020	304-A8000-02S020			
		5		304-A3A00-02S050	304-A4A00-02S050	304-A6000-02S050	304-A8000-02S050			
		10		304-A3A00-02S100	304-A4A00-02S100	304-A6000-02S100	304-A8000-02S100			
Straight Male + Straight Female  	PUR	0.6		306-A3A00-02SL60	306-A4A00-02SL60	306-A6000-02SL60	306-A8000-02SL60			
		1.5		306-A3A00-02S015	306-A4A00-02S015	306-A6000-02S015	306-A8000-02S015			
		3		306-A3A00-02S030	306-A4A00-02S030	306-A6000-02S030	306-A8000-02S030			
Angled Male + Angled Female  	PUR	0.6		309-A3A00-02SL60	309-A4A00-02SL60	309-A6000-02SL60	309-A8000-02SL60			
		1.5		309-A3A00-02S015	309-A4A00-02S015	309-A6000-02S015	309-A8000-02S015			
		3		309-A3A00-02S030	309-A4A00-02S030	309-A6000-02S030	309-A8000-02S030			

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M8 to M12 A-Code Double-ended Molded Connector (No Shield)

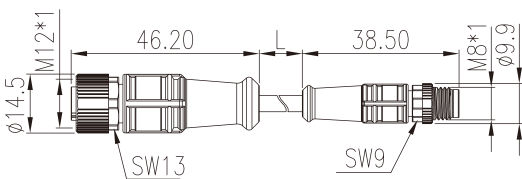
Coding and contacts		Code	A		A	
		Contacts	3		4	
Rated Voltage / Current			60 V / 4A		60 V / 4A	
Contact Arrangement			Male	Female	Male	Female
						
Connector Style	Cable	Length (m)	Part Number			
	PVC	0.6	350-13A00-10SL60		350-14A00-10SL60	
		1.5	350-13A00-10S015		350-14A00-10S015	
		3	350-13A00-10S030		350-14A00-10S030	
	PUR	0.6	350-13000-00SL60		350-14A00-00SL60	
		1.5	350-13000-00S015		350-14A00-00S015	
		3	350-13000-00S030		350-14A00-00S030	

Connectors at both ends can be configured as required, including straight (180°) or angled (90°), male or female. Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M8 to M12 A-Code Drag Chain Double-ended Molded Connector (No Shield)

Coding and contacts			Code	A		A	
			Contacts	3		4	
Rated Voltage / Current			60V / 4A		60V / 4A		
Contact Arrangement			Male	Female	Male	Female	
							
Connector Style	Cable	Length (m)	Part Number				
	PUR	0.6	350-13A00-02SL60		350-14A00-02SL60		
		1.5	350-13A00-02S015		350-14A00-02S015		
		3	350-13A00-02S030		350-14A00-02S030		

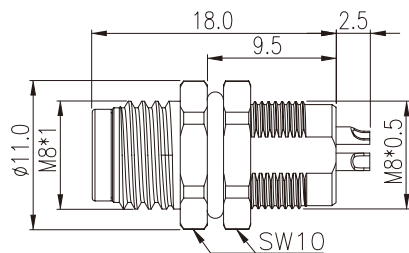
Connectors at both ends can be configured as required, including straight (180°) or angled (90°), male or female. Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.



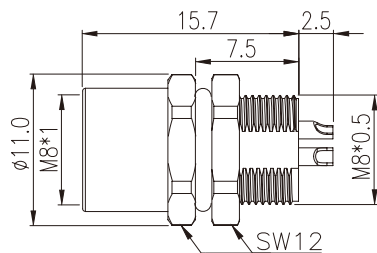
M8 A-Code Device Circular Connector

Front-mounting with Solder Cup

Male

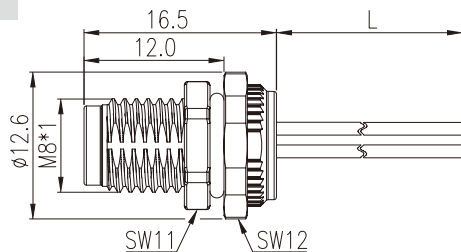


Female

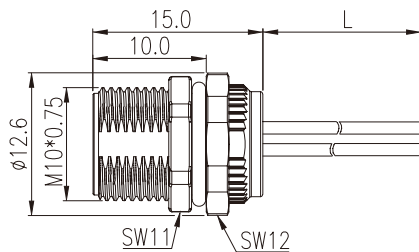


Rear-mounting with 0.5m Wires

Male

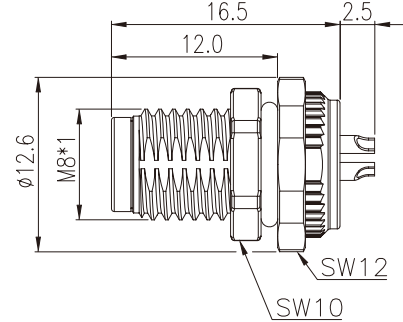


Female

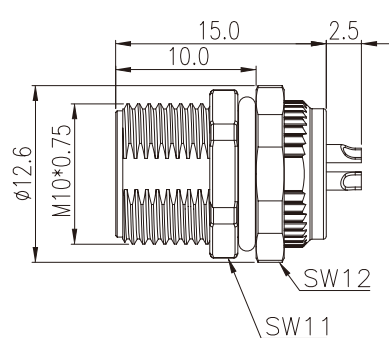


Rear-mounting with Solder Cup

Male



Female



Pin Assignments and Wire Colors

Pin arrangement								
	3P		4P		6P		8P	
A code								
Pin out	1	Brown	1	Brown	1	Brown	1	White
	2	-	2	White	2	White	2	Brown
	3	Blue	3	Blue	3	Blue	3	Green
	4	Black	4	Black	4	Black	4	Yellow
					5	Gray	5	Gray
					6	Pink	6	Pink
							7	Blue
							8	Red

M8 A-Code Device Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated
Fasten torque	0.3 Nm	O-ring	NBR
Mounting Torque	0.8 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	60VAC / 4A (≤4 Pin)	Wire Jacket	PVC
	30VAC / 1.5A (6 Pin)	UL AWM Style	PVC : UL 1061
	30VAC / 1.5A (8 Pin)	Conductor Cross-section	0.25mm ² / 24AWG (≤4 Pin)
Rated Impulse Voltage	1.5kV (≤4 Pin)		0.14mm ² / 26AWG (6 Pin)
	0.8kV (6 Pin)		0.14mm ² / 26AWG (8 Pin)
	0.8kV (8 Pin)	Material Conductor Insulation	SR-PVC
Insulation Resistance	Min.100MΩ	Flame Resistance	VW-1/FT-1
Overvoltage Category	II	Dielectric Strength	NA
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M8 A-Code Device Connector (No Shield)

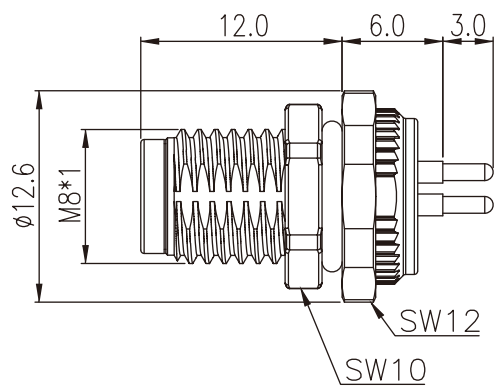
Coding and contacts	Code	A		A		A		A	
	Contacts	3		4		6		8	
Rated Voltage / Current		60V / 4A		60V / 4A		30V / 1.5A		30V / 1.5A	
Contact Arrangement		Male 	Female 	Male 	Female 	Male 	Female 	Male 	Female 
Front-mounting with 0.5m conductor									
Connector Style	Mount Thread			Part Number					
Male 	M8 X 0.5	318-A3A00-0VSL50		318-A4A00-0VSL50		318-A6000-0VSL50		318-A8000-0VSL50	
Female 	M8 X 0.5	319-A3A00-0VSL50		319-A4A00-0VSL50		319-A6000-0VSL50		319-A8000-0VSL50	
Rear-mounting with 0.5m conductor									
Connector Style	Mount Thread			Part Number					
Male 	M8 x 1	320-A3A01-0VSL50		320-A4A01-0VSL50		320-A6001-0VSL50		320-A8001-0VSL50	
Female 	M10 x 0.75	321-A3A02-0VSL50		321-A4A02-0VSL50		321-A6002-0VSL50		321-A8002-0VSL50	
Front-mounting with Solder Cup									
Connector Style	Mount Thread			Part Number					
Male 	M8 X 0.5	332-A3000-S		332-A4000-S		332-A6000-S		332-A8000-S	
Female 	M8 X 0.5	333-A3000-S		333-A4000-S		333-A6000-S		333-A8000-S	
Rear-mounting with Solder Cup									
Connector Style	Mount Thread			Part Number					
Male 	M8 x 1	330-A3001-S		330-A4001-S		330-A6001-S		330-A8001-S	
Female 	M10 x 0.75	331-A3002-S		331-A4002-S		331-A6002-S		331-A8002-S	

Wire lengths can be customized to your requirements. Please contact us for details.

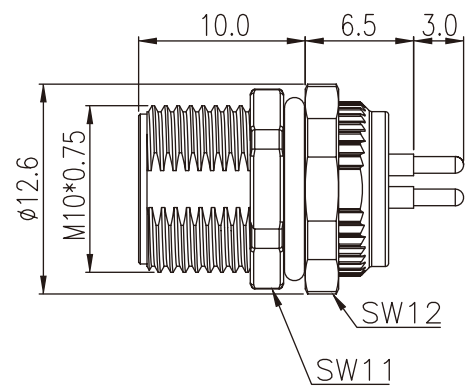
M8 A-Code One-piece PCB Circular Connector

Straight Pin Orientation, Rear-mounting (No Shield)

Male



Female



PCB Layout			
Pin out			
Pin arrangement			
	3P	4P	6P
	A code		
	8P		

M8 A-Code One-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	60VAC / 4A (≤4 Pin)		
	30VAC / 1.5A (6 Pin)		
	30VAC / 1.5A (8 Pin)		
Rated Impulse Voltage	1.5kV (≤4 Pin)		
	0.8kV (6 Pin)		
	0.8kV (8 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M8 A-Code One-piece PCB Connector (Shielded / No Shield)

Coding and contacts	Code	A		A		A		A	
	Contacts	3		4		6		8	
Rated Voltage / Current		60V / 4A		60V / 4A		30V / 1.5A		30V / 1.5A	
Contact Arrangement		Male 	Female 	Male 	Female 	Male 	Female 	Male 	Female 
Rear-mounting, Straight, No Shield									
Connector Style	Mount Thread					Part Number			
Male 	M8 X 1	326-A3001-4		326-A4001-4		326-A6001-4		326-A8001-4	
Female 	M10 x 0.75	327-A3002-4		327-A4002-4		327-A6002-4		327-A8002-4	
Rear-mounting, Angled, Shielded									
Connector Style	Mount Thread	Part Number							
Male 	M8 X 1	378-A3001-3		378-A4001-3		378-A6001-3		378-A8001-3	
Female 	M10 x 0.75	379-A3002-3		379-A4002-3		379-A6002-3		379-A8002-3	

M8 A-Code Two-piece PCB Circular Connector

Straight Pin Orientation (Shielded)

Male	PCB Layout					
	Pin out					
		3P	4P	5P	6P	8P
A code						

Female	PCB Layout					
	Pin out					
		3P	4P	5P	6P	8P
A code						

M8 A-Code Two-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	LCP
Operating Temperature	-25°C ~ 80°C	O-ring	SILICONE
Soldering Method	Reflow Soldering (245°C)	Moisture Sensitivity Level (MSL)	1
		UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	60VAC / 4A (≤4 Pin)		
	30VAC / 3A (5 Pin)		
	30VAC / 1.5A (6 Pin)		
	30VAC / 1.5A (8 Pin)		
Rated Impulse Voltage	1.5kV (≤4 Pin)		
	0.8kV (5 Pin)		
	0.8kV (6 Pin)		
	0.8kV (8 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

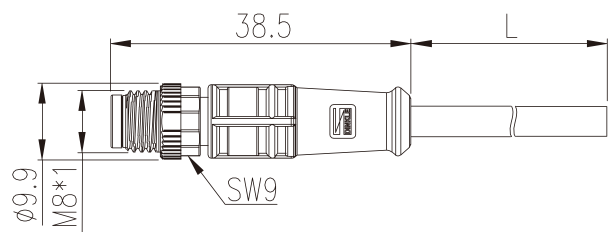
M8 A-Code Two-piece PCB Connector (No Shield)

Coding and contacts	Code	A		A		A		A		A	
	Contacts	3		4		5		6		8	
Rated Voltage / Current		60V / 4A		60V / 4A		60V / 4A		30V / 1.5A		30V / 1.5A	
Contact Arrangement		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
											
SMT Soldering (No Shield)											
Connector Style	Packaging	Part Number									
Male 	Tray	381-A3S00U-1	381-A4S00U-1	-	-	-	-	-	-	-	-
	Tape-on-reel	381-A3S00U-2	381-A4S00U-2	-	-	-	-	-	-	-	-
Female 	Tray	382-A3S00U-1	382-A4S00U-1	-	382-A6S00U-1	382-A8S00U-1					
	Tape-on-reel	382-A3S00U-2	382-A4S00U-2	-	382-A6S00U-2	382-A8S00U-2					
Metal Housing	Mount Thread	Part Number									
Male Housing 	M12 X 1	383-S1200									
Female Housing 	M12 X 1	384-S1200									

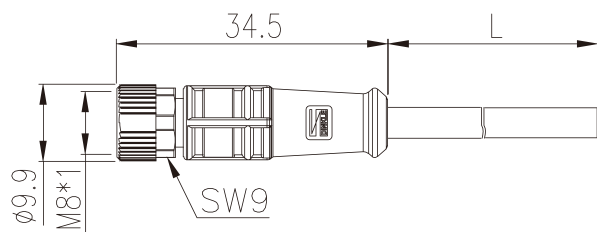
Tray Packaging Quantity: 60 Pcs
Tape-on-reel Packaging Quantity: 100 Pcs

M8 B-Code Molded Circular Connector

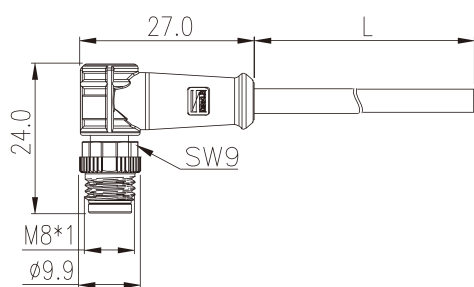
Single-ended straight Male



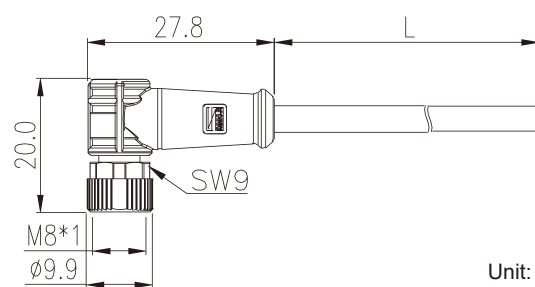
Single-ended straight Female



Single-ended angled Male

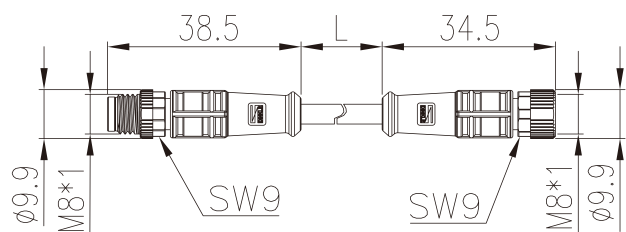


Single-ended angled Female

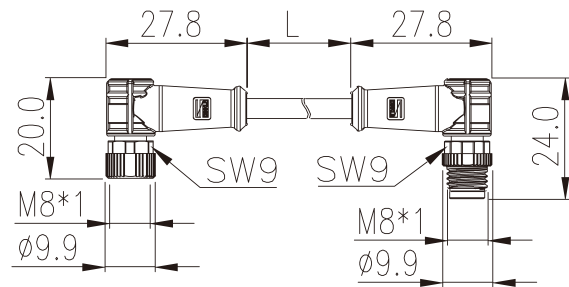


Unit: mm

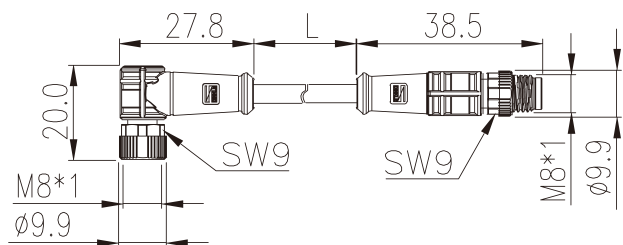
Straight Male + Straight Female



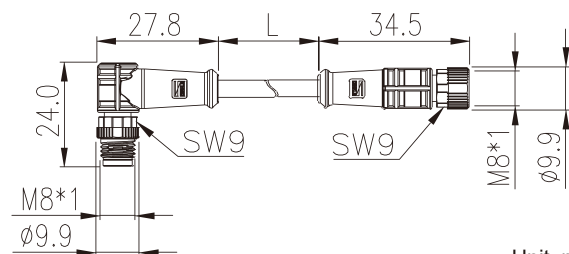
Angled Male + Angled Female



Straight Male + Angled Female



Angled Male + Straight Female



Unit: mm

M8 B-Code Molded Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier / Overmolding	PUR / PUR
Operating Temperature	-40°C ~ 80°C (Fixed Installation)	O-ring	NBR
	-25°C ~ 80°C (Flexible Installation)	Cable gland material	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.3 Nm	UL 94 Flammability Rating	HB
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	30VAC / 3A (5 Pin)	Cable Jacket	PUR / PVC, BLACK
Rated Impulse Voltage	0.8kV (5 Pin)	UL AWM Style	Shield PUR : UL AWM 20549 / PVC : UL AWM 2464
Insulation Resistance	Min.100MΩ		No Shield PUR : UL AWM 20549 / PVC : UL AWM 2464
Overvoltage Category	II	Conductor Cross-section	0.20mm ² / 24AWG (5 Pin)
Pollution Degree	3	Material Conductor Insulation	PP
		Flame Resistance	FT-2 / VW-1
		Dielectric Strength	2.0KV/1min
Standards and Regulations			
Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M8 B-Code Molded Connector (Shielded)

Coding and contacts		Code	B
		Contacts	5
Rated Voltage / Current			30V / 3A
Contact Arrangement			Male  Female 
Connector Style	Cable	Length (m)	Part Number
Single-ended straight Male 	PVC	2	351-B5A00-15S020
		5	351-B5A00-15S050
		10	351-B5A00-15S100
	PUR	2	351-B5A00-05S020
		5	351-B5A00-05S050
		10	351-B5A00-05S100
Single-ended straight Female 	PVC	2	352-B5A00-15S020
		5	352-B5A00-15S050
		10	352-B5A00-15S100
	PUR	2	352-B5A00-05S020
		5	352-B5A00-05S050
		10	352-B5A00-05S100
Single-ended angled Male 	PVC	2	353-B5A00-15S020
		5	353-B5A00-15S050
		10	353-B5A00-15S100
	PUR	2	353-B5A00-05S020
		5	353-B5A00-05S050
		10	353-B5A00-05S100
Single-ended angled Female 	PVC	2	354-B5A00-15S020
		5	354-B5A00-15S050
		10	354-B5A00-15S100
	PUR	2	354-B5A00-05S020
		5	354-B5A00-05S050
		10	354-B5A00-05S100
Straight Male + Straight Female 	PVC	0.6	356-B5A00-15SL60
		1.5	356-B5A00-15S015
		3	356-B5A00-15S030
	PUR	0.6	356-B5A00-05SL60
		1.5	356-B5A00-05S015
		3	356-B5A00-05S030
Angled Male + Angled Female 	PVC	0.6	359-B5A00-15SL60
		1.5	359-B5A00-15S015
		3	359-B5A00-15S030
	PUR	0.6	359-B5A00-05SL60
		1.5	359-B5A00-05S015
		3	359-B5A00-05S030

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M8 B-Code Molded Connector (No Shield)

Coding and contacts		Code	B
		Contacts	5
Rated Voltage / Current			30V / 3A
Contact Arrangement			Male  Female 
Connector Style	Cable	Length (m)	Part Number
Single-ended straight Male 	PVC	2	301-B5A00-10S020
		5	301-B5A00-10S050
		10	301-B5A00-10S100
	PUR	2	301-B5A00-00S020
		5	301-B5A00-00S050
		10	301-B5A00-00S100
Single-ended straight Female 	PVC	2	302-B5A00-10S020
		5	302-B5A00-10S050
		10	302-B5A00-10S100
	PUR	2	302-B5A00-00S020
		5	302-B5A00-00S050
		10	302-B5A00-00S100
Single-ended angled Male 	PVC	2	303-B5A00-10S020
		5	303-B5A00-10S050
		10	303-B5A00-10S100
	PUR	2	303-B5A00-00S020
		5	303-B5A00-00S050
		10	303-B5A00-00S100
Single-ended angled Female 	PVC	2	304-B5A00-10S020
		5	304-B5A00-10S050
		10	304-B5A00-10S100
	PUR	2	304-B5A00-00S020
		5	304-B5A00-00S050
		10	304-B5A00-00S100
Straight Male + Straight Female 	PVC	0.6	306-B5A00-10SL60
		1.5	306-B5A00-10S015
		3	306-B5A00-10S030
	PUR	0.6	306-B5A00-00SL60
		1.5	306-B5A00-00S015
		3	306-B5A00-00S030
Angled Male + Angled Female 	PVC	0.6	309-B5A00-10SL60
		1.5	309-B5A00-10S015
		3	309-B5A00-10S030
	PUR	0.6	309-B5A00-00SL60
		1.5	309-B5A00-00S015
		3	309-B5A00-00S030

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M8 B-Code Drag Chain Molded Connector (No Shield)

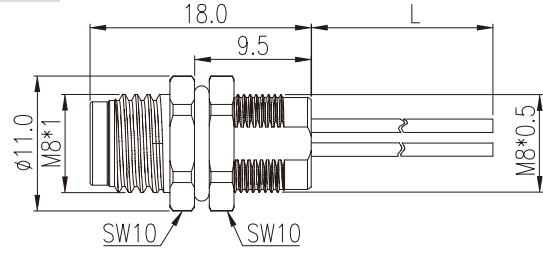
Coding and contacts		Code	B
		Contacts	5
Rated Voltage / Current		30V / 3A	
Contact Arrangement		Male	Female
			
Connector Style	Cable	Length (m)	Part Number
 Single-ended straight Male 	PUR	2	301-B5A00-02S020
		5	301-B5A00-02S050
		10	301-B5A00-02S100
 Single-ended straight Female 	PUR	2	302-B5A00-02S020
		5	302-B5A00-02S050
		10	302-B5A00-02S100
 Single-ended angled Male 	PUR	2	303-B5A00-02S020
		5	303-B5A00-02S050
		10	303-B5A00-02S100
 Single-ended angled Female 	PUR	2	304-B5A00-02S020
		5	304-B5A00-02S050
		10	304-B5A00-02S100
 Straight Male + Straight Female 	PUR	0.6	306-B5A00-02SL60
		1.5	306-B5A00-02S015
		3	306-B5A00-02S030
 Angled Male + Angled Female 	PUR	0.6	309-B5A00-02SL60
		1.5	309-B5A00-02S015
		3	309-B5A00-02S030

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

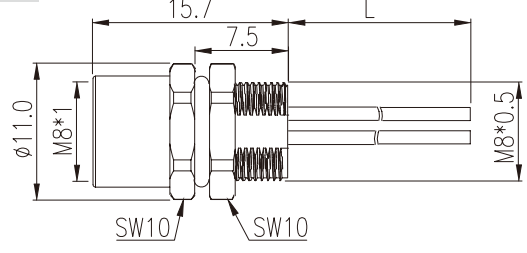
M8 B-Code Device Connector

Front-mounting with 0.5m Wires

Male

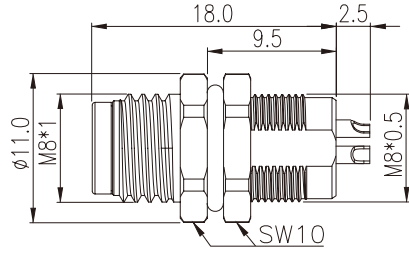


Female

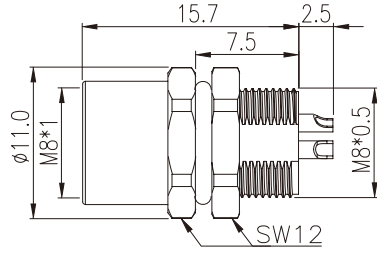


Front-mounting with Solder Cup

Male

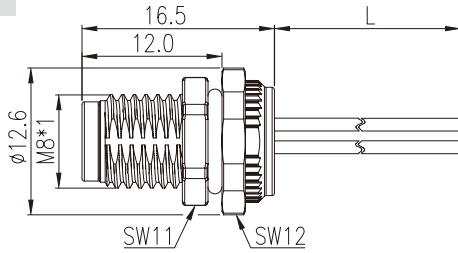


Female

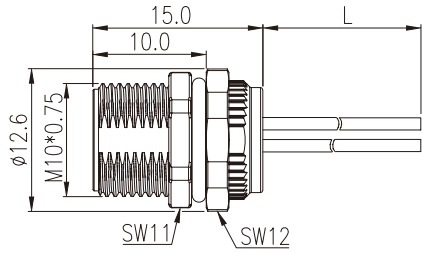


Rear-mounting with 0.5m Wires

Male

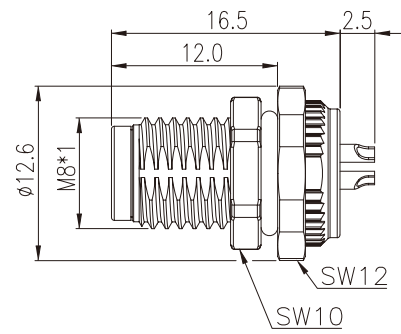


Female

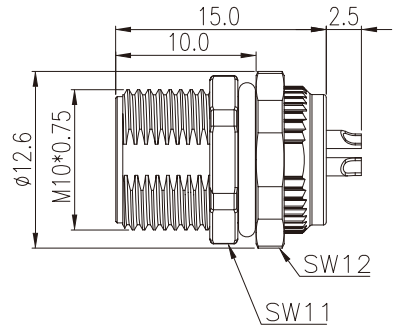


Rear-mounting with Solder Cup

Male



Female



Pin Assignments and Wire Colors

Pin out	Pin arrangement	
		
	5P	
	B code	
1	Brown	
2	White	
3	Blue	
4	Black	
5	Gray	

M8 B-Code Device Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated
Fasten torque	0.3 Nm	O-ring	NBR
Mounting Torque	0.8 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	30VAC / 3A (5 Pin)	Cable Jacket	PVC
Rated Impulse Voltage	0.8kV (5 Pin)	UL AWM Style	PVC : UL 1061
Insulation Resistance	Min.100MΩ	Conductor Cross-section	0.25mm ² / 24AWG (5 Pin)
Overvoltage Category	II	Material Conductor Insulation	SR-PVC
Pollution Degree	3	Flame Resistance	VW-1 / FT-1
		Dielectric Strength	NA
Standards and Regulations			
Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M8 B-Code Device Connector (No Shield)

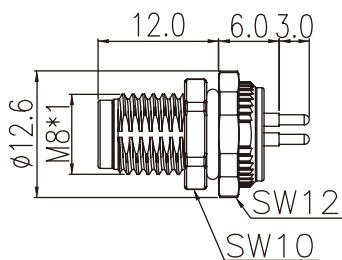
Coding and contacts	Code	B	
	Contacts	5	
Rated Voltage / Current		30V / 3A	
Contact Arrangement		Male 	Female 
Front-mounting with 0.5m conductor			
Connector Style	Mount Thread	Part Number	
Male 	M8 X 0.5	318-B5A00-0VSL50	
Female 	M8 X 0.5	319-B5A00-0VSL50	
Rear-mounting with 0.5m conductor			
Connector Style	Mount Thread	Part Number	
Male 	M8 x 1	320-B5A01-0VSL50	
Female 	M10 x 0.75	321-B5A02-0VSL50	
Front-mounting with Solder Cup			
Connector Style	Mount Thread	Part Number	
Male 	M8 X 0.5	332-B5000-S	
Female 	M8 X 0.5	333-B5000-S	
Rear-mounting with Solder Cup			
Connector Style	Mount Thread	Part Number	
Male 	M8 x 1	330-B5001-S	
Female 	M10 x 0.75	331-B5002-S	

Wire lengths can be customized to your requirements. Please contact us for details.

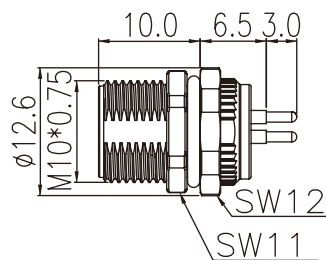
M8 B-Code One-piece PCB Circular Connector

Straight Pin Orientation, Rear-mounting (No Shield)

Male



Female



PCB Layout

Pin out	
Pin arrangement	

M8 B-Code One-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40℃ ~ 80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	O-ring	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	30VAC / 3A (5 Pin)		
Rated Impulse Voltage	0.8kV (5 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M8 B-Code One-piece / Two-piece PCB Connector (Shielded / No Shield)

Coding and contacts	Code	B	
	Contacts	5	
Rated Voltage / Current		30V / 3A	
Contact Arrangement		Male 	Female 
Rear-mounting, Straight, No Shield			
Connector Style	Mount Thread	 Part Number	
Male 	M8 X 1	326-B5001-4	
Female 	M10 x 0.75	327-B5002-4	
Rear-mounting, Angled, Shielded			
Connector Style	Mount Thread	 Part Number	
 Male 	M8 X 1	378-B5001-3	
 Female 	M10 x 0.75	379-B5002-3	
SMT Soldering (No Shield)			
Connector Style	Packaging	Part Number	
Female 	Tray	382-B5S00U-1	
	Tape-on-reel	382-B5S00U-2	
Connector Style	Mount Thread	Part Number	
Male Housing 	M12 X 1	383-S1200	
Female Housing 	M12 X 1	384-S1200	

Tray Packaging Quantity: 60 Pcs
Tape-on-reel Packaging Quantity: 100 Pcs

M12 Circular Connector

DINKLE's M12 molded circular connectors use overmolded cable assemblies that provide high structural stability and sealing performance. When mated, the male and female connectors provide dust and water protection (IP67/IP68), offering a reliable solution for environments exposed to moisture, wide temperature variations, and vibration. DINKLE offers high-quality PVC and PUR cables, including shielded versions. Drag-chain cables are also available and are rated for 5 million bending cycles (R=28 mm, L=1 m, V=1 m/s).

DINKLE's M12 device connectors are available with shielded PUR cables featuring high tensile strength, tear resistance, and abrasion resistance. Front-mount and rear-mount versions provide flexibility for different equipment dimensions. When installed with a sealing ring, unshielded device circular connectors provide enhanced airtightness and water resistance. Designed for mounting on equipment housings or panels, these connectors are available in both front-mount and rear-mount versions. In addition to standard PVC wires, solder-cup versions are also available.

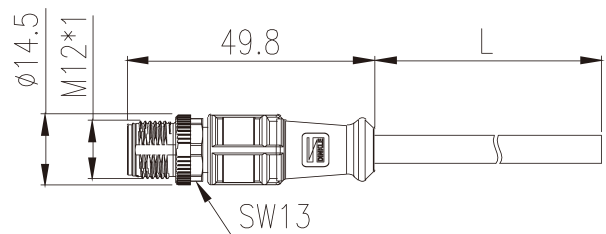
M12 one-piece PCB circular connectors are available with straight (180°) and angled (90°) solder-pin orientations to accommodate different enclosure and PCB layouts, providing greater installation flexibility. Shielded one-piece PCB connectors are also available; a pin connected to the metal housing provides functional earth.

DINKLE's M12 two-piece PCB circular connectors consist of separate contact-carrier and metal-housing components. The contact carrier uses high-temperature-resistant plastic and can be soldered to the PCB in advance using the through-hole reflow (THR) process. Tape-on-reel and tray packaging support automated pick-and-place assembly, helping reduce installation costs in automated production.

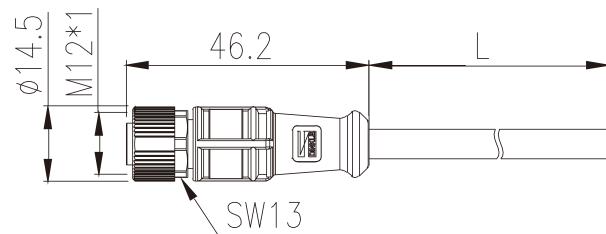


M12 A-Code Molded Circular Connector

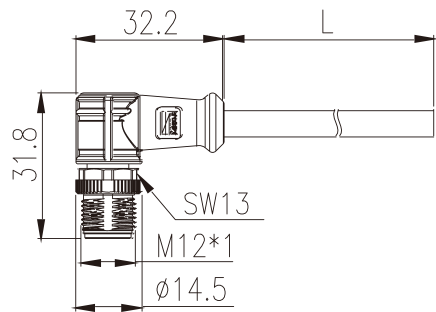
Single-ended straight Male



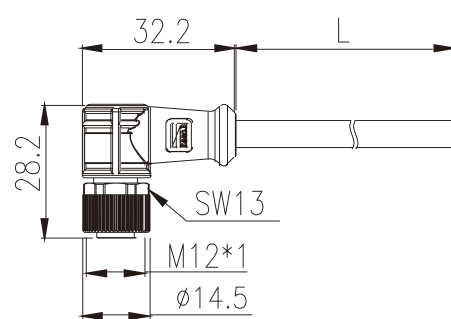
Single-ended straight Female



Single-ended angled Male

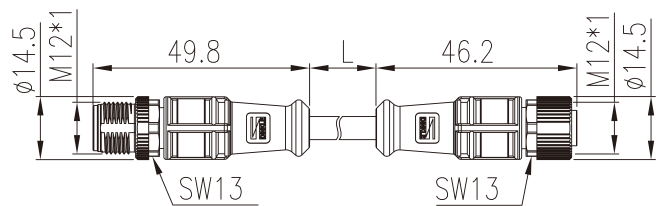


Single-ended angled Female

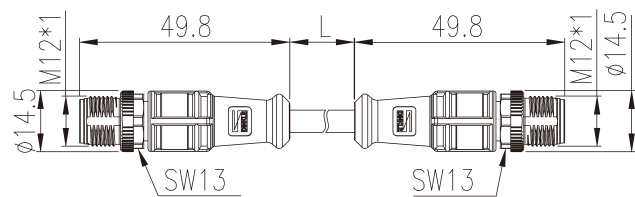


Unit: mm

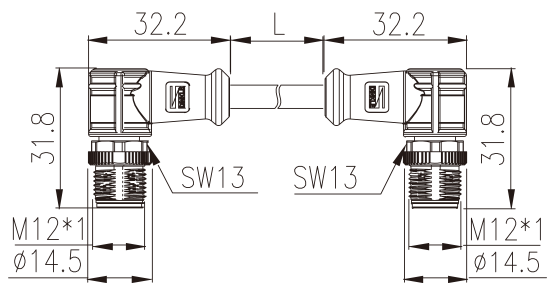
Straight Male + Straight Female



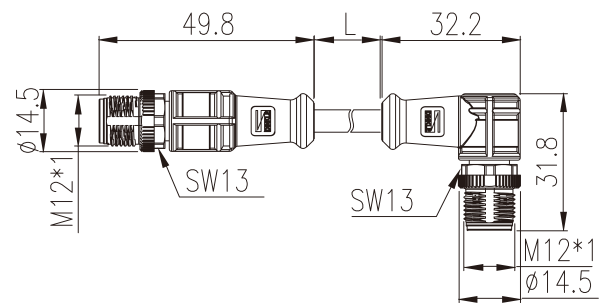
Straight Male + Straight Male



Angled Male + Angled Male



Straight Male + Angled Male



Unit: mm

M12 A-Code Molded Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67/IP68	Contact Carrier / Overmolding	PUR / PUR
Operating Temperature	-40℃ ~ 80℃ (Fixed Installation)	O-ring	NBR
	-25℃ ~ 80℃ (Flexible Installation)	Cable gland material	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	UL 94 Flammability Rating	HB
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)	Cable Jacket	PUR/PVC, BLACK
	250VAC / 4A (5 Pin)	UL AWM Style	Shield PUR : UL AWM 20549 / PVC : UL AWM 2464
	250VAC / 2A (8 Pin)		No Shield PUR : UL AWM 20549 / PVC : UL AWM 2464
	250VAC / 2.5A (12 Pin)		Drag Chain PUR : UL AWM 20549
Rated Impulse Voltage	2.5kV (≤4 Pin)	Conductor Cross-section	0.34mm ² /22AWG (≤4 Pin)
	1.5kV (5 Pin)		0.34mm ² /22AWG (5 Pin)
	0.8kV (8 Pin)		0.25mm ² /24AWG (8 Pin)
	0.8kV (12 Pin)		0.14mm ² /26AWG (12 Pin)
Insulation Resistance	Min.100MΩ	Material Conductor Insulation	PE/PVC
Overvoltage Category	II	Flame Resistance	FT-2 / VW-1
Pollution Degree	3	Dielectric Strength	2.0KV/1min
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 A-Code Molded Connector (Shielded)

Coding and contacts		Code	A		A		A		A		A	
		Contacts	3		4		5		8		12	
Rated Voltage / Current			250V / 4A		250V / 4A		60V / 4A		30V / 2A		30V / 1.5A	
Contact Arrangement			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
												
Connector Style	Cable	Length (m)				Part Number						
Single-ended straight Male 	PVC	2	251-A3A00-25S020		251-A4A00-25S020		251-A5A00-25S020		251-A8A00-25S020		251-AC000-25S020	
		5	251-A3A00-25S050		251-A4A00-25S050		251-A5A00-25S050		251-A8A00-25S050		251-AC000-25S050	
		10	251-A3A00-25S100		251-A4A00-25S100		251-A5A00-25S100		251-A8A00-25S100		251-AC000-25S100	
	PUR	2	251-A3A00-05S020		251-A4A00-05S020		251-A5A00-05S020		251-A8A00-05S020		251-AC000-05S020	
		5	251-A3A00-05S050		251-A4A00-05S050		251-A5A00-05S050		251-A8A00-05S050		251-AC000-05S050	
		10	251-A3A00-05S100		251-A4A00-05S100		251-A5A00-05S100		251-A8A00-05S100		251-AC000-05S100	
Single-ended straight Female 	PVC	2	252-A3A00-25S020		252-A4A00-25S020		252-A5A00-25S020		252-A8A00-25S020		252-AC000-25S020	
		5	252-A3A00-25S050		252-A4A00-25S050		252-A5A00-25S050		252-A8A00-25S050		252-AC000-25S050	
		10	252-A3A00-25S100		252-A4A00-25S100		252-A5A00-25S100		252-A8A00-25S100		252-AC000-25S100	
	PUR	2	252-A3A00-05S020		252-A4A00-05S020		252-A5A00-05S020		252-A8A00-05S020		252-AC000-05S020	
		5	252-A3A00-05S050		252-A4A00-05S050		252-A5A00-05S050		252-A8A00-05S050		252-AC000-05S050	
		10	252-A3A00-05S100		252-A4A00-05S100		252-A5A00-05S100		252-A8A00-05S100		252-AC000-05S100	
Single-ended angled Male 	PVC	2	253-A3A00-25S020		253-A4A00-25S020		253-A5A00-25S020		253-A8A00-25S020		253-AC000-25S020	
		5	253-A3A00-25S050		253-A4A00-25S050		253-A5A00-25S050		253-A8A00-25S050		253-AC000-25S050	
		10	253-A3A00-25S100		253-A4A00-25S100		253-A5A00-25S100		253-A8A00-25S100		253-AC000-25S100	
	PUR	2	253-A3A00-05S020		253-A4A00-05S020		253-A5A00-05S020		253-A8A00-05S020		253-AC000-05S020	
		5	253-A3A00-05S050		253-A4A00-05S050		253-A5A00-05S050		253-A8A00-05S050		253-AC000-05S050	
		10	253-A3A00-05S100		253-A4A00-05S100		253-A5A00-05S100		253-A8A00-05S100		253-AC000-05S100	
Single-ended angled Female 	PVC	2	254-A3A00-25S020		254-A4A00-25S020		254-A5A00-25S020		254-A8A00-25S020		254-AC000-25S020	
		5	254-A3A00-25S050		254-A4A00-25S050		254-A5A00-25S050		254-A8A00-25S050		254-AC000-25S050	
		10	254-A3A00-25S100		254-A4A00-25S100		254-A5A00-25S100		254-A8A00-25S100		254-AC000-25S100	
	PUR	2	254-A3A00-05S020		254-A4A00-05S020		254-A5A00-05S020		254-A8A00-05S020		254-AC000-05S020	
		5	254-A3A00-05S050		254-A4A00-05S050		254-A5A00-05S050		254-A8A00-05S050		254-AC000-05S050	
		10	254-A3A00-05S100		254-A4A00-05S100		254-A5A00-05S100		254-A8A00-05S100		254-AC000-05S100	
Straight Male + Straight Female 	PVC	0.6	256-A3A00-25SL60		256-A4A00-25SL60		256-A5000-25SL60		256-A8A00-25SL60		256-AC000-25SL60	
		1.5	256-A3A00-25S015		256-A4A00-25S015		256-A5A00-25S015		256-A8A00-25S015		256-AC000-25S015	
		3	256-A3A00-25S030		256-A4A00-25S030		256-A5A00-25S030		256-A8A00-25S030		256-AC000-25S030	
	PUR	0.6	256-A3A00-05SL60		256-A4A00-05SL60		256-A5A00-05SL60		256-A8A00-05SL60		256-AC000-05SL60	
		1.5	256-A3A00-05S015		256-A4A00-05S015		256-A5A00-05S015		256-A8A00-05S015		256-AC000-05S015	
		3	256-A3A00-05S030		256-A4A00-05S030		256-A5A00-05S030		256-A8A00-05S030		256-AC000-05S030	
Angled Male + Angled Female 	PVC	0.6	259-A3A00-25SL60		259-A4A00-25SL60		259-A5A00-25SL60		259-A8A00-25SL60		259-AC000-25SL60	
		1.5	259-A3A00-25S015		259-A4A00-25S015		259-A5A00-25S015		259-A8A00-25S015		259-AC000-25S015	
		3	259-A3A00-25S030		259-A4A00-25S030		259-A5A00-25S030		259-A8A00-25S030		259-AC000-25S030	
	PUR	0.6	259-A3A00-05SL60		259-A4A00-05SL60		259-A5A00-05SL60		259-A8A00-05SL60		259-AC000-05SL60	
		1.5	259-A3A00-05S015		259-A4A00-05S015		259-A5A00-05S015		259-A8A00-05S015		259-AC000-05S015	
		3	259-A3A00-05S030		259-A4A00-05S030		259-A5A00-05S030		259-A8A00-05S030		259-AC000-05S030	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 A-Code Molded Connector (No Shield)

Coding and contacts		Code	A		A		A		A		A	
		Contacts	3		4		5		8		12	
Rated Voltage / Current			250V / 4A		250V / 4A		60V / 4A		30V / 2A		30V / 1.5A	
Contact Arrangement			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
												
Connector Style	Cable	Length (m)	 LISTED	 LISTED	 LISTED	Part Number		 LISTED	 LISTED	 LISTED		
	PVC	2	201-A3A00-20S020	201-A4A00-20S020	201-A5A00-20S020	201-A8A00-20S020	201-AC000-20S020					
		5	201-A3A00-20S050	201-A4A00-20S050	201-A5A00-20S050	201-A8A00-20S050	201-AC000-20S050					
		10	201-A3A00-20S100	201-A4A00-20S100	201-A5A00-20S100	201-A8A00-20S100	201-AC000-20S100					
	PUR	2	201-A3A00-00S020	201-A4A00-00S020	201-A5A00-00S020	201-A8A00-00S020	201-AC000-00S020					
		5	201-A3A00-00S050	201-A4A00-00S050	201-A5A00-00S050	201-A8A00-00S050	201-AC000-00S050					
		10	201-A3A00-00S100	201-A4A00-00S100	201-A5A00-00S100	201-A8A00-00S100	201-AC000-00S100					
	PVC	2	202-A3A00-20S020	202-A4A00-20S020	202-A5A00-20S020	202-A8A00-20S020	202-AC000-20S020					
		5	202-A3A00-20S050	202-A4A00-20S050	202-A5A00-20S050	202-A8A00-20S050	202-AC000-20S050					
		10	202-A3A00-20S100	202-A4A00-20S100	202-A5A00-20S100	202-A8A00-20S100	202-AC000-20S100					
	PUR	2	202-A3A00-00S020	202-A4A00-00S020	202-A5A00-00S020	202-A8A00-00S020	202-AC000-00S020					
		5	202-A3A00-00S050	202-A4A00-00S050	202-A5A00-00S050	202-A8A00-00S050	202-AC000-00S050					
		10	202-A3A00-00S100	202-A4A00-00S100	202-A5A00-00S100	202-A8A00-00S100	202-AC000-00S100					
	PVC	2	203-A3A00-20S020	203-A4A00-20S020	203-A5A00-20S020	203-A8A00-20S020	203-AC000-20S020					
		5	203-A3A00-20S050	203-A4A00-20S050	203-A5A00-20S050	203-A8A00-20S050	203-AC000-20S050					
		10	203-A3A00-20S100	203-A4A00-20S100	203-A5A00-20S100	203-A8A00-20S100	203-AC000-20S100					
	PUR	2	203-A3A00-00S020	203-A4A00-00S020	203-A5A00-00S020	203-A8A00-00S020	203-AC000-00S020					
		5	203-A3A00-00S050	203-A4A00-00S050	203-A5A00-00S050	203-A8A00-00S050	203-AC000-00S050					
		10	203-A3A00-00S100	203-A4A00-00S100	203-A5A00-00S100	203-A8A00-00S100	203-AC000-00S100					
	PVC	2	204-A3A00-20S020	204-A4A00-20S020	204-A5A00-20S020	204-A8A00-20S020	204-AC000-20S020					
		5	204-A3A00-20S050	204-A4A00-20S050	204-A5A00-20S050	204-A8A00-20S050	204-AC000-20S050					
		10	204-A3A00-20S100	204-A4A00-20S100	204-A5A00-20S100	204-A8A00-20S100	204-AC000-20S100					
	PUR	2	204-A3A00-00S020	204-A4A00-00S020	204-A5A00-00S020	204-A8A00-00S020	204-AC000-00S020					
		5	204-A3A00-00S050	204-A4A00-00S050	204-A5A00-00S050	204-A8A00-00S050	204-AC000-00S050					
		10	204-A3A00-00S100	204-A4A00-00S100	204-A5A00-00S100	204-A8A00-00S100	204-AC000-00S100					
	PVC	0.6	206-A3A00-20SL60	206-A4A00-20SL60	206-A5A00-20SL60	206-A8A00-20SL60	206-AC000-20SL60					
		1.5	206-A3A00-20S015	206-A4A00-20S015	206-A5A00-20S015	206-A8A00-20S015	206-AC000-20S015					
		3	206-A3A00-20S030	206-A4A00-20S030	206-A5A00-20S030	206-A8A00-20S030	206-AC000-20S030					
	PUR	0.6	206-A3A00-00SL60	206-A4A00-00SL60	206-A5A00-00SL60	206-A8A00-00SL60	206-AC000-00SL60					
		1.5	206-A3A00-00S015	206-A4A00-00S015	206-A5A00-00S015	206-A8A00-00S015	206-AC000-00S015					
		3	206-A3A00-00S030	206-A4A00-00S030	206-A5A00-00S030	206-A8A00-00S030	206-AC000-00S030					
	PVC	0.6	209-A3A00-20SL60	209-A4A00-20SL60	209-A5A00-20SL60	209-A8A00-20SL60	209-AC000-20SL60					
		1.5	209-A3A00-20S015	209-A4A00-20S015	209-A5A00-20S015	209-A8A00-20S015	209-AC000-20S015					
		3	209-A3A00-20S030	209-A4A00-20S030	209-A5A00-20S030	209-A8A00-20S030	209-AC000-20S030					
	PUR	0.6	209-A3A00-00SL60	209-A4A00-00SL60	209-A5A00-00SL60	209-A8A00-00SL60	209-AC000-00SL60					
		1.5	209-A3A00-00S015	209-A4A00-00S015	209-A5A00-00S015	209-A8A00-00S015	209-AC000-00S015					
		3	209-A3A00-00S030	209-A4A00-00S030	209-A5A00-00S030	209-A8A00-00S030	209-AC000-00S030					

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

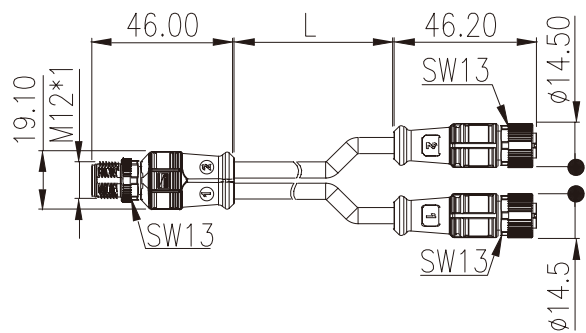
M12 A-Code Drag Chain Molded Connector (No Shield)

Coding and contacts		Code	A		A		A		A		A	
		Contacts	3		4		5		8		12	
Rated Voltage / Current			250V / 4A		250V / 4A		60V / 4A		30V / 2A		30V / 1.5A	
Contact Arrangement			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
												
Connector Style	Cable	Length (m)	Part Number									
Single-ended straight Male 	PUR	2	201-A3A00-02S020	201-A4A00-02S020	201-A5A00-02S020	201-A8A00-02S020	201-AC000-02S020					
		5	201-A3A00-02S050	201-A4A00-02S050	201-A5A00-02S050	201-A8A00-02S050	201-AC000-02S050					
		10	201-A3A00-02S100	201-A4A00-02S100	201-A5A00-02S100	201-A8A00-02S100	201-AC000-02S100					
Single-ended straight Female 	PUR	2	202-A3A00-02S020	202-A4A00-02S020	202-A5A00-02S020	202-A8A00-02S020	202-AC000-02S020					
		5	202-A3A00-02S050	202-A4A00-02S050	202-A5A00-02S050	202-A8A00-02S050	202-AC000-02S050					
		10	202-A3A00-02S100	202-A4A00-02S100	202-A5A00-02S100	202-A8A00-02S100	202-AC000-02S100					
Single-ended angled Male 	PUR	2	203-A3A00-02S020	203-A4A00-02S020	203-A5A00-02S020	203-A8A00-02S020	203-AC000-02S020					
		5	203-A3A00-02S050	203-A4A00-02S050	203-A5A00-02S050	203-A8A00-02S050	203-AC000-02S050					
		10	203-A3A00-02S100	203-A4A00-02S100	203-A5A00-02S100	203-A8A00-02S100	203-AC000-02S100					
Single-ended angled Female 	PUR	2	204-A3A00-02S020	204-A4A00-02S020	204-A5A00-02S020	204-A8A00-02S020	204-AC000-02S020					
		5	204-A3A00-02S050	204-A4A00-02S050	204-A5A00-02S050	204-A8A00-02S050	204-AC000-02S050					
		10	204-A3A00-02S100	204-A4A00-02S100	204-A5A00-02S100	204-A8A00-02S100	204-AC000-02S100					
Straight Male + Straight Female 	PUR	0.6	206-A3A00-02SL60	206-A4A00-02SL60	206-A5A00-02SL60	206-A8A00-02SL60	206-AC000-02SL60					
		1.5	206-A3A00-02S015	206-A4A00-02S015	206-A5A00-02S015	206-A8A00-02S015	206-AC000-02S015					
		3	206-A3A00-02S030	206-A4A00-02S030	206-A5A00-02S030	206-A8A00-02S030	206-AC000-02S030					
Angled Male + Angled Female 	PUR	0.6	209-A3A00-02SL60	209-A4A00-02SL60	209-A5A00-02SL60	209-A8A00-02SL60	209-AC000-02SL60					
		1.5	209-A3A00-02S015	209-A4A00-02S015	209-A5A00-02S015	209-A8A00-02S015	209-AC000-02S015					
		3	209-A3A00-02S030	209-A4A00-02S030	209-A5A00-02S030	209-A8A00-02S030	209-AC000-02S030					

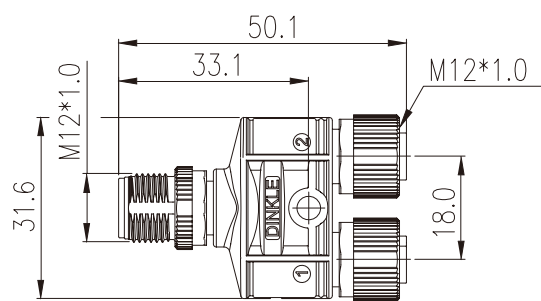
The drag-chain cable is rated for 5 million bending cycles (R=28 mm, L=1 m, V=1 m/s). Cable lengths and connector configurations can be customized to your requirements. Please contact us for details.

M12 A-Code Y-Splitter (No Shield)

Molded Y-Splitter

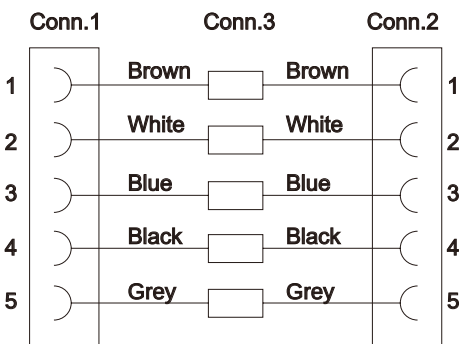


Y-Splitter



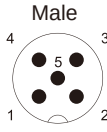
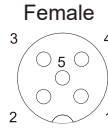
Wiring Diagram

Pin out	5	5	Grey	5	Grey	
	4	4	Black	4	Black	
	3	3	Blue	3	Blue	
	2	2	White	2	White	
	1	1	Brown	1	Brown	
Pin arrangement						
	conn.3		conn.2		conn.1	
	5P		5P		5P	
	A code					

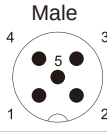
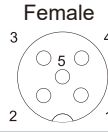


M12 A-Code Y-Splitter (No Shield)

DINKLE's Y-splitters provide excellent flexibility in space-constrained industrial environments. They feature an unshielded, double-ended A-Code design and are available with or without cables. Five internal contacts allow two sensor-actuator devices to be powered simultaneously, simplifying wiring, reducing installation costs, preventing wiring errors, and enabling distributed logical connections directly along the cable route. The fully overmolded housing provides IP67 protection for the internal connections, making it an ideal rugged and reliable solution for harsh environments.

Coding and contacts	Code	A	
	Contacts	5	
Rated Voltage / Current		60V / 4A	
Rated Voltage / Current			
Connector Style (1 x Straight Male + 2 x Straight Female)	Code	Part Number (Standard Length: 15 cm)	
	PUR	222-A5530-00SL15	
	PVC	222-A5530-20SL15	
	-	224-2A5100	

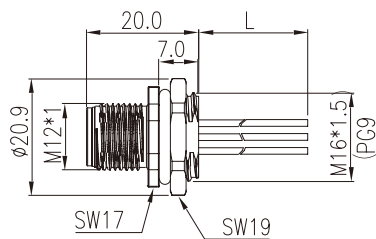
M12 A-Code Y-Splitter (Shielded)

Coding and contacts	Code	A	
	Contacts	5	
Rated Voltage / Current		60V / 4A	
Rated Voltage / Current			
Connector Style (1 x Straight Male + 2 x Straight Female)	Code	Part Number	
 	-	274-2A5100	

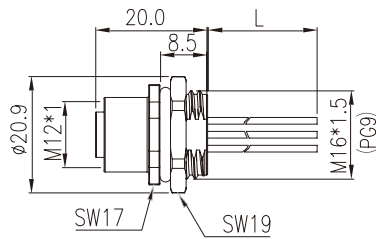
M12 A-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male

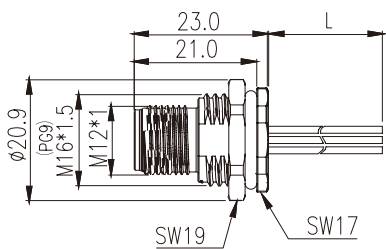


Female

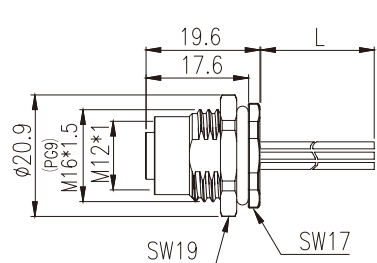


Rear-mounting with 0.5m Wires

Male

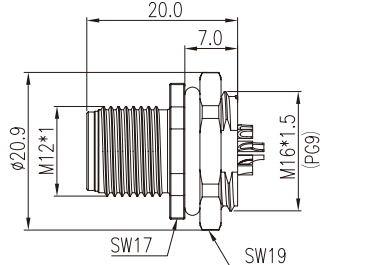


Female

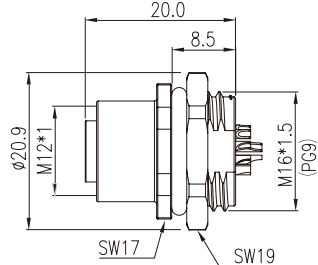


Front-mounting with Solder Cup

Male

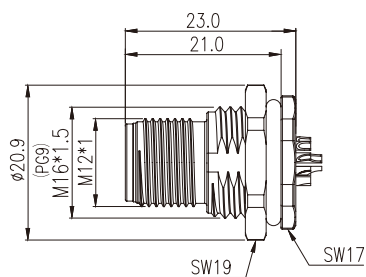


Female

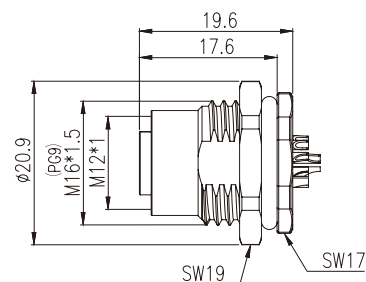


Rear-mounting with Solder Cup

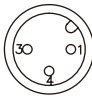
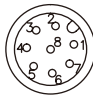
Male



Female



Pin Assignments and Wire Colors

Pin arrangement															
	3P			4P			5P			8P			12P		
Pin out	1	Brown		1	Brown		1	Brown		1	Brown		1	Brown	
	2	-		2	White		2	White		2	White		2	Blue	
	3	Blue		3	Blue		3	Blue		3	Blue		3	White	
	4	Black		4	Black		4	Black		4	Black		4	Green	
	5	-		5	-		5	Gray		5	Gray		5	Pink	
										6	Pink		6	Yellow	
										7	Blue		7	Black	
										8	Red		8	Gray	
													9	Red	
													10	Violet	
													11	Gray / Pink	
													12	Red / Blue	

M12 A-Code Device Connector

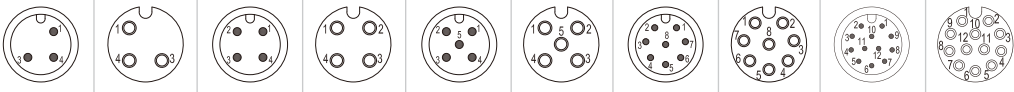
Mechanical Properties		Material Properties		
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated	
Degree of Protection	IP67	Contact Carrier	PA	
Operating Temperature	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated	
Fasten torque	0.4 Nm	O-ring	NBR	
Mounting Torque	0.8 Nm	UL 94 Flammability Rating	V0	
Electrical Properties		Cable Information		
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)	Wire Jacket	Shield	PUR / PVC, BLACK
	60VAC / 4A (5 Pin)		No Shield	PVC
	30VAC / 2A (8 Pin)	UL AWM Style	Shield	PUR : UL AWM 20549 / PVC : UL AWM 2464
	30VAC / 1.5A (12 Pin)		No Shield	PVC : UL AWM 1061
Rated Impulse Voltage	2.5kV (≤4 Pin)	Conductor Cross-section	0.34mm ² / 22AWG (≤4 Pin)	
	1.5kV (5 Pin)		0.34mm ² / 22AWG (5 Pin)	
	0.8kV (8 Pin)		0.25mm ² / 24AWG (8 Pin)	
	0.8kV (12 Pin)		0.14mm ² / 26AWG (12 Pin)	
Insulation Resistance	Min.100MΩ	Material Conductor Insulation	PE / PVC	
Overvoltage Category	II	Flame Resistance	FT-2 / VW-1	
Pollution Degree	3	Dielectric Strength	2.0KV/1min	
Standards and Regulations				
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking			
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods			
	IEC 60529: Degree of protection provided by enclosures (IP Code)			
Certification reference	UL 2238			
Notice				
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.				

M12 A-Code Device Connector (Shielded)

Coding and contacts	Code	A		A		A		A		A	
	Contacts	3		4		5		8		12	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A		30V 2A		30V 1.5A	
Contact Arrangement		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
											
Front-mounting with 2m Cable											
Connector Style	Mount Thread	Part Number									
	M16 X 1.5	268-A3000-15S020	268-A4000-15S020	268-A5000-15S020	268-A8000-15S020	268-AC000-15S020					
	Pg9	268-A3002-15S020	268-A4002-15S020	268-A5002-15S020	268-A8002-15S020	268-AC002-15S020					
	M16 X 1.5	269-A3000-15S020	269-A4000-15S020	269-A5000-15S020	269-A8000-15S020	269-AC000-15S020					
	Pg9	269-A3002-15S020	269-A4002-15S020	269-A5002-15S020	269-A8002-15S020	269-AC002-15S020					
Rear-mounting with 2m Cable											
Connector Style	Mount Thread	Part Number									
	M16 X 1.5	270-A3000-15S020	270-A4000-15S020	270-A5000-15S020	270-A8000-15S020	270-AC000-15S020					
	Pg9	270-A3002-15S020	270-A4002-15S020	270-A5002-15S020	270-A8002-15S020	270-AC002-15S020					
	M16 X 1.5	271-A3000-15S020	271-A4000-15S020	271-A5000-15S020	271-A8000-15S020	271-AC000-15S020					
	Pg9	271-A3002-15S020	271-A4002-15S020	271-A5002-15S020	271-A8002-15S020	271-AC002-15S020					

Cable lengths can be customized to your requirements. Please contact us for details.

M12 A-Code Device Connector (No Shield)

Coding and contacts	Code	A		A		A		A		A	
	Contacts	3		4		5		8		12	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A		30V / 2A		30V / 1.5A	
Contact Arrangement		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
											
Front-mounting with 0.5m conductor											
Connector Style	Mount Thread				Part Number						
	M16 X 1.5				218-A3A00-0VSL50	218-A4A00-0VSL50	218-A5A00-0VSL50	218-A8A00-0VSL50		218-AC000-0VSL50	
	Pg9				218-A3A02-0VSL50	218-A4A02-0VSL50	218-A5A02-0VSL50	218-A8A02-0VSL50		218-AC002-0VSL50	
	M16 X 1.5				219-A3A00-0VSL50	219-A4A00-0VSL50	219-A5A00-0VSL50	219-A8A00-0VSL50		219-AC000-0VSL50	
	Pg9				219-A3A02-0VSL50	219-A4A02-0VSL50	219-A5A02-0VSL50	219-A8A02-0VSL50		219-AC002-0VSL50	
Rear-mounting with 0.5m conductor											
Connector Style	Mount Thread				Part Number						
	M16 X 1.5				220-A3A00-0VSL50	220-A4A00-0VSL50	220-A5A00-0VSL50	220-A8A00-0VSL50		220-AC000-0VSL50	
	Pg9				220-A3A02-0VSL50	220-A4A02-0VSL50	220-A5A02-0VSL50	220-A8A02-0VSL50		220-AC002-0VSL50	
	M16 X 1.5				221-A3A00-0VSL50	221-A4A00-0VSL50	221-A5A00-0VSL50	221-A8A00-0VSL50		221-AC000-0VSL50	
	Pg9				221-A3A02-0VSL50	221-A4A02-0VSL50	221-A5A02-0VSL50	221-A8A02-0VSL50		221-AC002-0VSL50	
Front-mounting with Solder Cup											
Connector Style	Mount Thread				Part Number						
	M16 X 1.5				232-A3000-S	232-A4000-S	232-A5000-S	232-A8000-S		232-AC000-S	
	Pg9				232-A3002-S	232-A4002-S	232-A5002-S	232-A8002-S		232-AC002-S	
	M16 X 1.5				233-A3000-S	233-A4000-S	233-A5000-S	233-A8000-S		233-AC000-S	
	Pg9				233-A3002-S	233-A4002-S	233-A5002-S	233-A8002-S		233-AC002-S	
Rear-mounting with Solder Cup											
Connector Style	Mount Thread				Part Number						
	M16 X 1.5				230-A3000-S	230-A4000-S	230-A5000-S	230-A8000-S		230-AC000-S	
	Pg9				230-A3002-S	230-A4002-S	230-A5002-S	230-A8002-S		230-AC002-S	
	M16 X 1.5				231-A3000-S	231-A4000-S	231-A5000-S	231-A8000-S		231-AC000-S	
	Pg9				231-A3002-S	231-A4002-S	231-A5002-S	231-A8002-S		231-AC002-S	

Wire lengths can be customized to your requirements. Please contact us for details.

M12 A-Code One-piece PCB Circular Connector

Straight Pin Orientation, Rear-mounting (Shielded)

Male		PCB Layout					
	Pin out						
	Pin arrangement						
		3P	4P	5P	8P	12P	17P
		A code					

Female		PCB Layout					
	Pin out						
	Pin arrangement						
		3P	4P	5P	8P	12P	17P
		A code					

Straight Pin Orientation, Rear-mounting (No Shield)

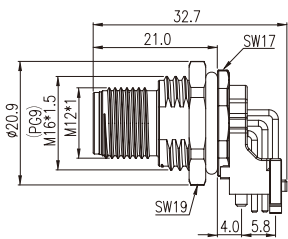
Male		PCB Layout					
	Pin out						
	Pin arrangement						
		3P	4P	5P	8P	12P	17P
		A code					

Female		PCB Layout					
	Pin out						
	Pin arrangement						
		3P	4P	5P	8P	12P	17P
		A code					

M12 A-Code One-piece PCB Circular Connector

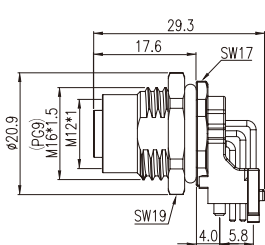
Angled Pin Orientation, Rear-mounting (No Shield)

Male



PCB Layout				
Pin out				
Pin arrangement				
A code				

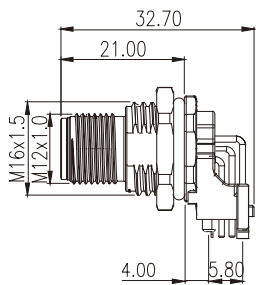
Female



PCB Layout				
Pin out				
Pin arrangement				
A code				

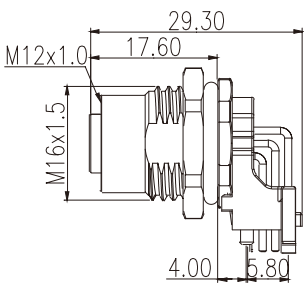
Angled Pin Orientation, Rear-mounting (Shielded)

Male



PCB Layout				
Pin out				
Pin arrangement				
A code				

Female



PCB Layout				
Pin out				
Pin arrangement				
A code				

M12 A-Code One-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40℃ ~ 80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)		
	60VAC / 4A (5 Pin)		
	30VAC / 2A (8 Pin)		
	30VAC / 1.5A (12 Pin)		
Rated Impulse Voltage	2.5kV (≤4 Pin)		
	1.5kV (5 Pin)		
	0.8kV (8 Pin)		
	0.8kV (12 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

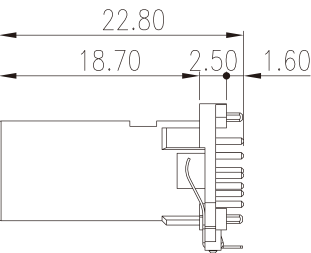
M12 A-Code One-piece PCB Connector (Shielded / No Shield)

Coding and contacts	Code	A		A		A		A		A		A	
	Contacts	3		4		5		8		12		17	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A		30V / 2A		30V / 1.5A		30V / 1.5A	
Contact Arrangement													
Rear-mounting, Straight, Shielded													
Connector Style	Mount Thread			 Part Number									
 Male 	M16 X 1.5			276-A3000-6	276-A4000-6	276-A5000-6	276-A8000-6	276-AC000-6	276-AH000-6				
	Pg9			276-A3002-6	276-A4002-6	276-A5002-6	276-A8002-6	276-AC002-6	276-AH002-6				
 Female 	M16 X 1.5			277-A3000-6	277-A4000-6	277-A5000-6	277-A8000-6	277-AC000-6	277-AH000-6				
	Pg9			277-A3002-6	277-A4002-6	277-A5002-6	277-A8002-6	277-AC002-6	277-AH002-6				
Rear-mounting, Straight, No Shield													
Connector Style	Mount Thread			 Part Number									
Male 	M16 X 1.5			226-A3000-6	226-A4000-6	226-A5000-6	226-A8000-6	226-AC000-6	226-AH000-6				
	Pg9			226-A3002-6	226-A4002-6	226-A5002-6	226-A8002-6	226-AC002-6	226-AH002-6				
Female 	M16 X 1.5			227-A3000-6	227-A4000-6	227-A5000-6	227-A8000-6	227-AC000-6	227-AH000-6				
	Pg9			227-A3002-6	227-A4002-6	227-A5002-6	227-A8002-6	227-AC002-6	227-AH002-6				
Rear-mounting, Angled, Shielded													
Connector Style	Mount Thread	Part Number											
 Male with PCB Pin 	M16 X 1.5	278-A3000-3	278-A4000-3	278-A5000-3	278-A8000-3							-	-
	Pg9	278-A3002-3	278-A4002-3	278-A5002-3	278-A8002-3							-	-
 Female with PCB Pin 	M16 X 1.5	279-A3000-3	279-A4000-3	279-A5000-3	279-A8000-3							-	-
	Pg9	279-A3002-3	279-A4002-3	279-A5002-3	279-A8002-3							-	-
Rear-mounting, Angled, No Shield													
Connector Style	Mount Thread	Part Number											
	M16 X 1.5	228-A3000-3	228-A4000-3	228-A5000-3	228-A8000-3							-	-
	Pg9	228-A3002-3	228-A4002-3	228-A5002-3	228-A8002-3							-	-
	M16 X 1.5	229-A3000-3	229-A4000-3	229-A5000-3	229-A8000-3							-	-
	Pg9	229-A3002-3	229-A4002-3	229-A5002-3	229-A8002-3							-	-

M12 A-Code Two-piece PCB Circular Connector

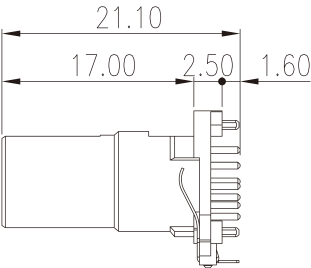
Straight Pin Orientation (Shielded)

Male



PCB Layout						
Pin out						

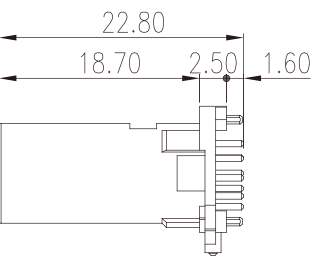
Female



PCB Layout							
Pin out							
Pin arrangement							
	3P	4P	5P	8P	12P	17P	
A-code							

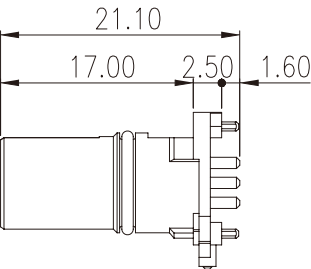
Straight Pin Orientation (No Shield)

Male



PCB Layout						
Pin out						
Pin arrangement						
	3P	4P	5P	8P	12P	17P
A-code						

Female

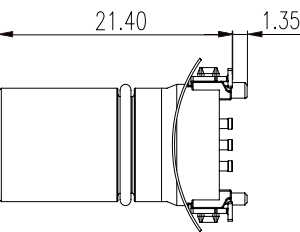


PCB Layout						
Pin out						
Pin arrangement						
	3P	4P	5P	8P	12P	17P
A-code						

M12 A-Code Two-piece PCB Circular Connector

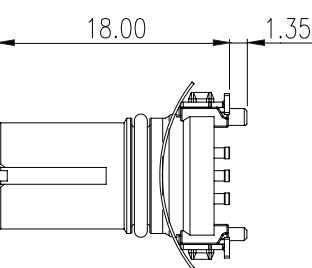
Straight Pin Orientation (Shielded)

Male



PCB Layout				
Pin out				
Pin arrangement				
	4P	5P	8P	12P
A-code				

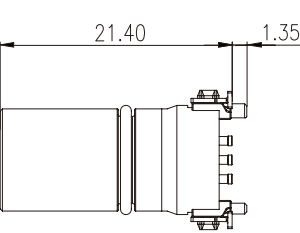
Female



PCB Layout				
Pin out				
Pin arrangement				
	4P	5P	8P	12P
A-code				

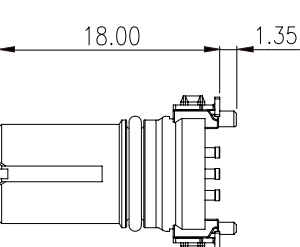
Straight Pin Orientation (No Shield)

Male



PCB Layout				
Pin out				
Pin arrangement				
	4P	5P	8P	12P
A-code				

Female



PCB Layout				
Pin out				
Pin arrangement				
	4P	5P	8P	12P
A-code				

M12 A-Code Two-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	LCP
Operating Temperature	-40°C ~ 125°C	O-ring	SILICONE
		Moisture Sensitivity Level (MSL)	1
Soldering Method	Reflow Soldering (245°C)	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)		
	60VAC / 4A (5 Pin)		
	30VAC / 2A (8 Pin)		
	30VAC / 1.5A (≥12 Pin)		
Rated Impulse Voltage	2.5kV (≤4 Pin)		
	1.5kV (5 Pin)		
	0.8kV (8 Pin)		
	0.8kV (≥12 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 A-Code Two-piece PCB Connector (Shielded / No Shield)

Coding and contacts	Code	A		A		A		A		A		A	
	Contacts	3		4		5		8		12		17	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A		30V / 2A		30V /1.5A		30V /0.5A	
Contact Arrangement													
THR Soldering (Shielded)													
Connector Style	Packaging				Part Number								
	Tray	281-A3T00S-1	281-A4T00S-1	281-A5T00S-1	281-A8T00S-1	281-AC100S-1	281-AH100S-1						
	Tape-on-reel	281-A3T00S-2	281-A4T00S-2	281-A5T00S-2	281-A8T00S-2	281-AC100S-2	281-AH100S-2						
	Tray	282-A3T00S-1	282-A4T00S-1	282-A5T00S-1	282-A8T00S-1	282-AC100S-1	282-AH100S-1						
	Tape-on-reel	282-A3T00S-2	282-A4T00S-2	282-A5T00S-2	282-A8T00S-2	282-AC100S-2	282-AH100S-2						
THR Soldering (No Shield)													
Connector Style	Packaging				Part Number								
	Tray	281-A3T00U-1	281-A4T00U-1	281-A5T00U-1	281-A8T00U-1	281-AC100U-1	281-AH100U-1						
	Tape-on-reel	281-A3T00U-2	281-A4T00U-2	281-A5T00U-2	281-A8T00U-2	281-AC100U-2	281-AH100U-2						
	Tray	282-A3T00U-1	282-A4T00U-1	282-A5T00U-1	282-A8T00U-1	282-AC100U-1	282-AH100U-1						
	Tape-on-reel	282-A3T00U-2	282-A4T00U-2	282-A5T00U-2	282-A8T00U-2	282-AC100U-2	282-AH100U-2						
SMT Soldering (Shielded)													
Connector Style	Packaging	Part Number											
	Tray	-	281-A4S00S-1	281-A5S00S-1	281-A8S00S-1	281-ACS00S-1	281-AHS00S-1						
	Tape-on-reel	-	281-A4S00S-2	281-A5S00S-2	281-A8S00S-2	281-ACS00S-2	281-AHS00S-2						
	Tray	-	282-A4S00S-1	282-A5S00S-1	282-A8S00S-1	282-ACS00S-1	282-AHS00S-1						
	Tape-on-reel	-	282-A4S00S-2	282-A5S00S-2	282-A8S00S-2	282-ACS00S-2	282-AHS00S-2						
SMT Soldering (No Shield)													
Connector Style	Packaging	Part Number											
	Tray	-	281-A4S00U-1	281-A5S00U-1	281-A8S00U-1	281-ACS00U-1	281-AHS00U-1						
	Tape-on-reel	-	281-A4S00U-2	281-A5S00U-2	281-A8S00U-2	281-ACS00U-2	281-AHS00U-2						
	Tray	-	282-A4S00U-1	 282-A5S00U-1	282-A8S00U-1	282-ACS00U-1	282-AHS00U-1						
	Tape-on-reel	-	282-A4S00U-2	 282-A5S00U-2	282-A8S00U-2	282-ACS00U-2	282-AHS00U-2						

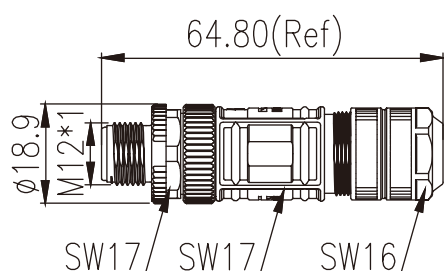
Tray Packaging Quantity: 60 Pcs
Tape-on-reel Packaging Quantity: 100 Pcs

M12 A-Code Two-piece PCB Connector (Shielded / No Shield)

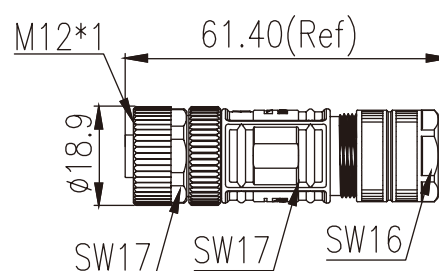
Coding and contacts	Code	A		A		A		A		A		A	
	Contacts	3		4		5		8		12		17	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A		30V / 2A		30V /1.5A		30V /0.5A	
Contact Arrangement		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
													
Metal Housing													
Connector Style	Mount Thread	Part Number											
Male Housing 	M16 X 1.5	283-T1100											
Female Housing 	M16 X 1.5	284-T1100											

M12 A-Code Assembly Circular Connector

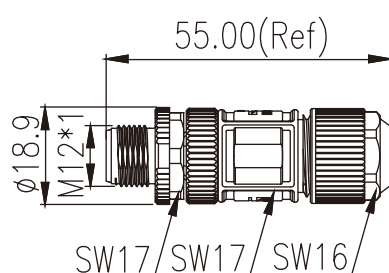
Straight Male (Shielded)



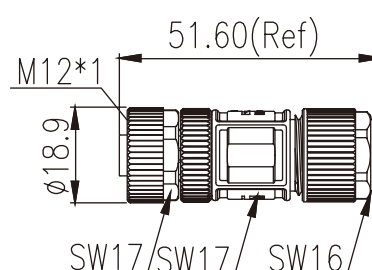
Straight Female (Shielded)



Straight Male (No Shield)



Straight Female (No Shield)



Unit: mm

M12 A-Code Assembly Connector

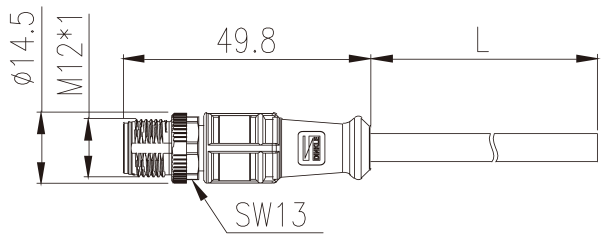
Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier / Press Handle	PA / N/A for Handle
Operating Temperature	-40℃ ~ 125℃	O-ring	NBR
Soldering Method	Hand Soldering	Housing	PA66 / Zinc Alloy
		UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)	Wire Size	18AWG~26AWG
	60VAC / 4A (5 Pin)	Applicable Cable Diameter	Φ4~Φ8
Rated Impulse Voltage	2.5kV (≤4 Pin)		
	1.5kV (5 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 A-Code Assembly Connector (Shielded / No Shield)

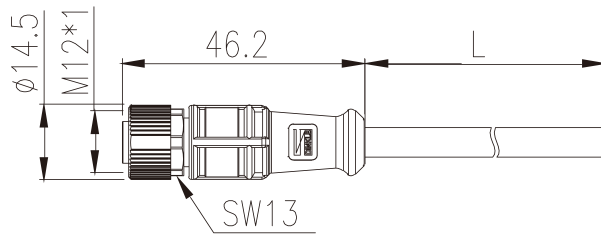
Coding and contacts	Code	A		A		A	
	Contacts	3		4		5	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A	
Contact Arrangement		Male	Female	Male	Female	Male	Female
							
Shield							
Connector Style	Wiring Method	Part Number					
Straight Male 	Soldering Type	293-A3A1		293-A4A1		293-A5A1	
Straight Female 		294-A3A1		294-A4A1		294-A5A1	
No Shield							
Connector Style	Wiring Method	Part Number					
Straight Male 	Soldering Type	243-A3A0		243-A4A0		243-A5A0	
Straight Female 		244-A3A0		244-A4A0		244-A5A0	

M12 B-Code Molded Circular Connector

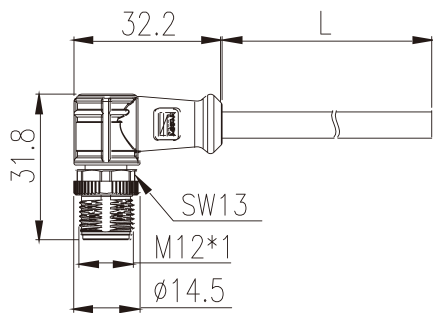
Single-ended straight Male



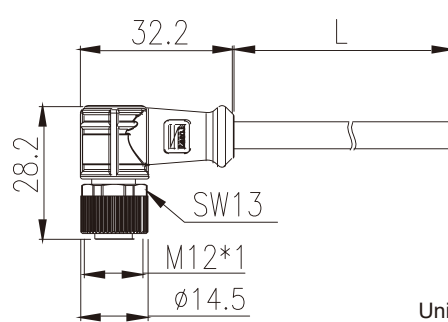
Single-ended straight Female



Single-ended angled Male

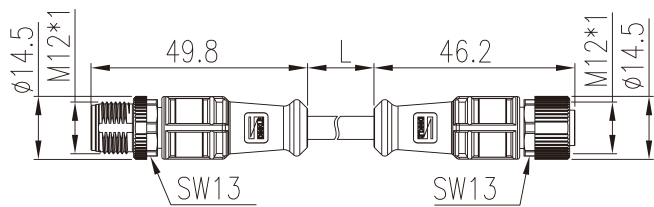


Single-ended angled Female

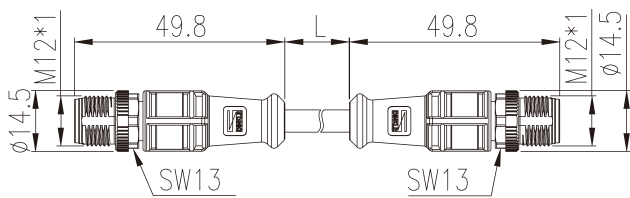


Unit: mm

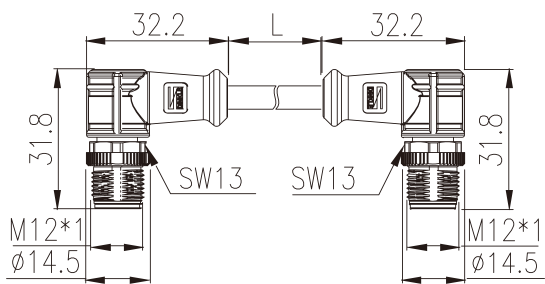
Straight Male + Straight Female



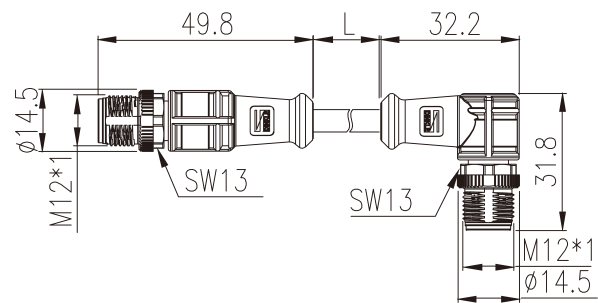
Straight Male + Straight Male



Angled Male + Angled Male



Straight Male + Angled Male



Unit: mm

M12 B-Code Molded Connector

Mechanical Properties		Material Properties		
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated	
Degree of Protection	IP67/IP68	Contact Carrier / Overmolding	PUR / PUR	
Operating Temperature	-40℃ ~ 80℃ (Fixed Installation)	O-ring	NBR	
	-25℃ ~ 80℃ (Flexible Installation)	Cable gland material	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated	
Fasten torque	0.4 Nm	UL 94 Flammability Rating	HB	
Electrical Properties		Cable Information		
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)	Cable Jacket	PUR/PVC, BLACK	
	250VAC / 4A (5 Pin)	UL AWM Style	Shield	PUR : UL AWM 20549 / PVC : UL AWM 2464
Rated Impulse Voltage	2.5kV (≤4 Pin)		No Shield	PUR : UL AWM 20549 / PVC : UL AWM 2464
	1.5kV (5 Pin)		Drag Chain	PUR : UL AWM 20549
Insulation Resistance	Min.100MΩ	Conductor Cross-section	0.34mm ² /22AWG (≤4 Pin)	
Overvoltage Category	II		0.34mm ² /22AWG (5 Pin)	
Pollution Degree	3	Material Conductor Insulation	PE/PVC	
		Flame Resistance	FT-2 / VW-1	
		Dielectric Strength	2.0KV/1min	
Standards and Regulations				
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking			
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods			
	IEC 60529: Degree of protection provided by enclosures (IP Code)			
Certification reference	UL 2238			
Notice				
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.				

M12 B-Code Molded Connector (Shielded)

Coding and contacts			Code	B		B		B	
			Contacts	3		4		5	
Rated Voltage / Current				250V / 4A		250V / 4A		60V / 4A	
Contact Arrangement				Male	Female	Male	Female	Male	Female
									
Connector Style	Cable	Length (m)		Part Number			Part Number		
Single-ended straight Male  	PVC	2		251-B3A00-25S020			251-B4A00-25S020		251-B5A00-25S020
		5		251-B3A00-25S050			251-B4A00-25S050		251-B5A00-25S050
		10		251-B3A00-25S100			251-B4A00-25S100		251-B5A00-25S100
	PUR	2		251-B3A00-05S020			251-B4A00-05S020		251-B5A00-05S020
		5		251-B3A00-05S050			251-B4A00-05S050		251-B5A00-05S050
		10		251-B3A00-05S100			251-B4A00-05S100		251-B5A00-05S100
Single-ended straight Female  	PVC	2		252-B3A00-25S020			252-B4A00-25S020		252-B5A00-25S020
		5		252-B3A00-25S050			252-B4A00-25S050		252-B5A00-25S050
		10		252-B3A00-25S100			252-B4A00-25S100		252-B5A00-25S100
	PUR	2		252-B3A00-05S020			252-B4A00-05S020		252-B5A00-05S020
		5		252-B3A00-05S050			252-B4A00-05S050		252-B5A00-05S050
		10		252-B3A00-05S100			252-B4A00-05S100		252-B5A00-05S100
Single-ended angled Male  	PVC	2		253-B3A00-25S020			253-B4A00-25S020		253-B5A00-25S020
		5		253-B3A00-25S050			253-B4A00-25S050		253-B5A00-25S050
		10		253-B3A00-25S100			253-B4A00-25S100		253-B5A00-25S100
	PUR	2		253-B3A00-05S020			253-B4A00-05S020		253-B5A00-05S020
		5		253-B3A00-05S050			253-B4A00-05S050		253-B5A00-05S050
		10		253-B3A00-05S100			253-B4A00-05S100		253-B5A00-05S100
Single-ended angled Female  	PVC	2		254-B3A00-25S020			254-B4A00-25S020		254-B5A00-25S020
		5		254-B3A00-25S050			254-B4A00-25S050		254-B5A00-25S050
		10		254-B3A00-25S100			254-B4A00-25S100		254-B5A00-25S100
	PUR	2		254-B3A00-05S020			254-B4A00-05S020		254-B5A00-05S020
		5		254-B3A00-05S050			254-B4A00-05S050		254-B5A00-05S050
		10		254-B3A00-05S100			254-B4A00-05S100		254-B5A00-05S100
Straight Male + Straight Female  	PVC	0.6		256-B3A00-25SL60			256-B4A00-25SL60		256-B5A00-25SL60
		1.5		256-B3A00-25S015			256-B4A00-25S015		256-B5A00-25S015
		3		256-B3A00-25S030			256-B4A00-25S030		256-B5A00-25S030
	PUR	0.6		256-B3A00-05SL60			256-B4A00-05SL60		256-B5A00-05SL60
		1.5		256-B3A00-05S015			256-B4A00-05S015		256-B5A00-05S015
		3		256-B3A00-05S030			256-B4A00-05S030		256-B5A00-05S030
Angled Male + Angled Female  	PVC	0.6		259-B3A00-20SL60			259-B4A00-20SL60		259-B5A00-20SL60
		1.5		259-B3A00-20S015			259-B4A00-20S015		259-B5A00-20S015
		3		259-B3A00-20S030			259-B4A00-20S030		259-B5A00-20S030
	PUR	0.6		259-B3A00-00SL60			259-B4A00-00SL60		259-B5A00-00SL60
		1.5		259-B3A00-00S015			259-B4A00-00S015		259-B5A00-00S015
		3		259-B3A00-00S030			259-B4A00-00S030		259-B5A00-00S030

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 B-Code Molded Connector (No Shield)

Coding and contacts		Code	B		B		B	
		Contacts	3		4		5	
Rated Voltage / Current			250V / 4A		250V / 4A		60V / 4A	
Contact Arrangement			Male	Female	Male	Female	Male	Female
								
Connector Style	Cable	Length (m)	Part Number					
	PVC	2	201-B3A00-20S020		201-B4A00-20S020		201-B5A00-20S020	
		5	201-B3A00-20S050		201-B4A00-20S050		201-B5A00-20S050	
		10	201-B3A00-20S100		201-B4A00-20S100		201-B5A00-20S100	
	PUR	2	201-B3A00-00S020		201-B4A00-00S020		201-B5A00-00S020	
		5	201-B3A00-00S050		201-B4A00-00S050		201-B5A00-00S050	
		10	201-B3A00-00S100		201-B4A00-00S100		201-B5A00-00S100	
	PVC	2	202-B3A00-20S020		202-B4A00-20S020		202-B5A00-20S020	
		5	202-B3A00-20S050		202-B4A00-20S050		202-B5A00-20S050	
		10	202-B3A00-20S100		202-B4A00-20S100		202-B5A00-20S100	
	PUR	2	202-B3A00-00S020		202-B4A00-00S020		202-B5A00-00S020	
		5	202-B3A00-00S050		202-B4A00-00S050		202-B5A00-00S050	
		10	202-B3A00-00S100		202-B4A00-00S100		202-B5A00-00S100	
	PVC	2	203-B3A00-20S020		203-B4A00-20S020		203-B5A00-20S020	
		5	203-B3A00-20S050		203-B4A00-20S050		203-B5A00-20S050	
		10	203-B3A00-20S100		203-B4A00-20S100		203-B5A00-20S100	
	PUR	2	203-B3A00-00S020		203-B4A00-00S020		203-B5A00-00S020	
		5	203-B3A00-00S050		203-B4A00-00S050		203-B5A00-00S050	
		10	203-B3A00-00S100		203-B4A00-00S100		203-B5A00-00S100	
	PVC	2	204-B3A00-20S020		204-B4A00-20S020		204-B5A00-20S020	
		5	204-B3A00-20S050		204-B4A00-20S050		204-B5A00-20S050	
		10	204-B3A00-20S100		204-B4A00-20S100		204-B5A00-20S100	
	PUR	2	204-B3A00-00S020		204-B4A00-00S020		204-B5A00-00S020	
		5	204-B3A00-00S050		204-B4A00-00S050		204-B5A00-00S050	
		10	204-B3A00-00S100		204-B4A00-00S100		204-B5A00-00S100	
	PVC	0.6	206-B3A00-20SL60		206-B4A00-20SL60		206-B5A00-20SL60	
		1.5	206-B3A00-20S015		206-B4A00-20S015		206-B5A00-20S015	
		3	206-B3A00-20S030		206-B4A00-20S030		206-B5A00-20S030	
	PUR	0.6	206-B3A00-00SL60		206-B4A00-00SL60		206-B5A00-00SL60	
		1.5	206-B3A00-00S015		206-B4A00-00S015		206-B5A00-00S015	
		3	206-B3A00-00S030		206-B4A00-00S030		206-B5A00-00S030	
	PVC	0.6	209-B3A00-20SL60		209-B4A00-20SL60		209-B5A00-20SL60	
		1.5	209-B3A00-20S015		209-B4A00-20S015		209-B5A00-20S015	
		3	209-B3A00-20S030		209-B4A00-20S030		209-B5A00-20S030	
	PUR	0.6	209-B3A00-00SL60		209-B4A00-00SL60		209-B5A00-00SL60	
		1.5	209-B3A00-00S015		209-B4A00-00S015		209-B5A00-00S015	
		3	209-B3A00-00S030		209-B4A00-00S030		209-B5A00-00S030	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 B-Code Drag Chain Molded Connector (No Shield)

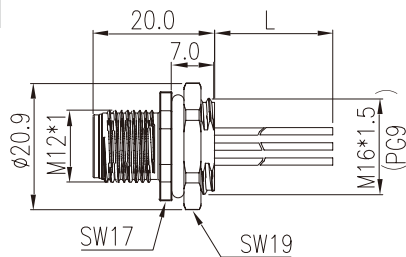
Coding and contacts			Code	B		B		B	
			Contacts	3		4		5	
Rated Voltage / Current			250V / 4A		250V / 4A		60V / 4A		
Contact Arrangement			Male	Female	Male	Female	Male	Female	
									
Connector Style	Cable	Length (m)	Part Number						
 Single-ended straight Male	PUR	2	201-B3A00-02S020		201-B4A00-02S020		201-B5A00-02S020		
		5	201-B3A00-02S050		201-B4A00-02S050		201-B5A00-02S050		
		10	201-B3A00-02S100		201-B4A00-02S100		201-B5A00-02S100		
 Single-ended straight Female	PUR	2	202-B3A00-02S020		202-B4A00-02S020		202-B5A00-02S020		
		5	202-B3A00-02S050		202-B4A00-02S050		202-B5A00-02S050		
		10	202-B3A00-02S100		202-B4A00-02S100		202-B5A00-02S100		
 Single-ended angled Male	PUR	2	203-B3A00-02S020		203-B4A00-02S020		203-B5A00-02S020		
		5	203-B3A00-02S050		203-B4A00-02S050		203-B5A00-02S050		
		10	203-B3A00-02S100		203-B4A00-02S100		203-B5A00-02S100		
 Single-ended angled Female	PUR	2	204-B3A00-02S020		204-B4A00-02S020		204-B5A00-02S020		
		5	204-B3A00-02S050		204-B4A00-02S050		204-B5A00-02S050		
		10	204-B3A00-02S100		204-B4A00-02S100		204-B5A00-02S100		
 Straight Male + Straight Female	PUR	0.6	206-B3A00-02SL60		206-B4A00-02SL60		206-B5A00-02SL60		
		1.5	206-B3A00-02S015		206-B4A00-02S015		206-B5A00-02S015		
		3	206-B3A00-02S030		206-B4A00-02S030		206-B5A00-02S030		
 Angled Male + Angled Female	PUR	0.6	209-B3A00-02SL60		209-B4A00-02SL60		209-B5A00-02SL60		
		1.5	209-B3A00-02S015		209-B4A00-02S015		209-B5A00-02S015		
		3	209-B3A00-02S030		209-B4A00-02S030		209-B5A00-02S030		

The drag-chain cable is rated for 5 million bending cycles (R=28 mm, L=1 m, V=1 m/s). Cable lengths and connector configurations can be customized to your requirements. Please contact us for details.

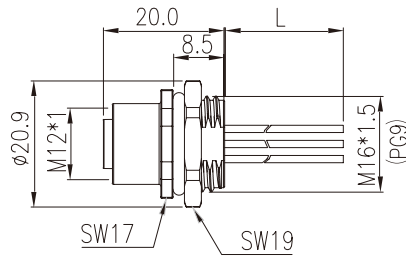
M12 B-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male

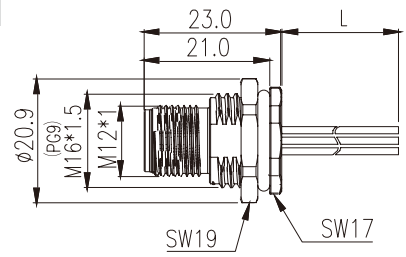


Female

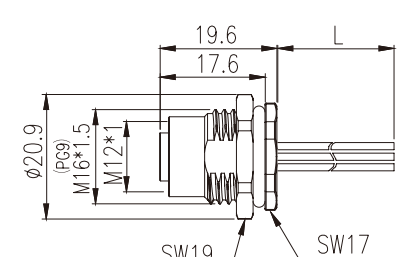


Rear-mounting with 0.5m Wires

Male

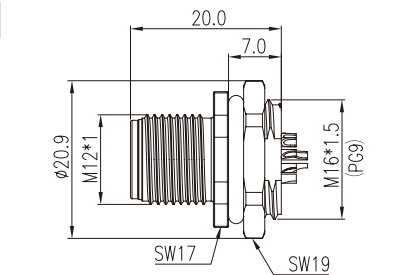


Female

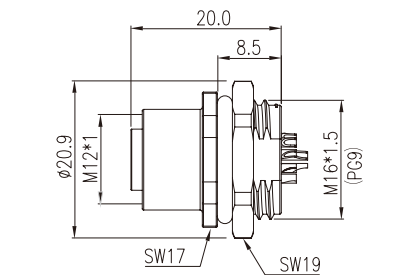


Front-mounting with Solder Cup

Male

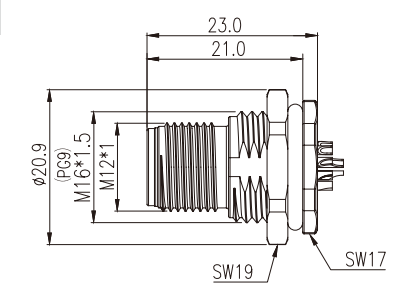


Female

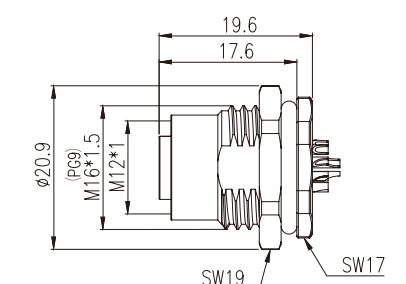


Rear-mounting with Solder Cup

Male



Female



Pin Assignments and Wire Colors

Pin arrangement						
	3P		4P		5P	
	B code					
Pin out	1	Brown	1	Brown	1	Brown
	2	-	2	White	2	White
	3	Blue	3	Blue	3	Blue
	4	Black	4	Black	4	Black
	5	-	5	-	5	Gray

M12 B-Code Device Connector

Mechanical Properties		Material Properties		
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated	
Degree of Protection	IP67	Contact Carrier	PA	
Operating Temperature	-40℃ ~ 80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated	
Fasten torque	0.4 Nm	O-ring	NBR	
Mounting Torque	0.8 Nm	UL 94 Flammability Rating	V0	
Electrical Properties		Cable Information		
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)	Wire Jacket	Shield	PUR / PVC, BLACK
	60VAC / 4A (5 Pin)		No Shield	PVC
Rated Impulse Voltage	2.5kV (≤4 Pin)	UL AWM Style	Shield	PUR : UL AWM 20549 / PVC : UL AWM 2464
	1.5kV (5 Pin)		No Shield	PVC : UL AWM 1061
Insulation Resistance	Min.100MΩ	Conductor Cross-section	0.34mm ² / 22AWG (≤4 Pin)	
Overvoltage Category	II		0.34mm ² / 22AWG (5 Pin)	
Pollution Degree	3	Material Conductor Insulation	PE / PVC	
		Flame Resistance	FT-2 / VW-1	
		Dielectric Strength	2.0KV/1min	
Standards and Regulations				
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking			
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods			
	IEC 60529: Degree of protection provided by enclosures (IP Code)			
Certification reference	UL 2238			
Notice				
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.				

M12 B-Code Device Connector (Shielded)

Coding and contacts	Code	B		B		B	
	Contacts	3		4		5	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A	
Contact Arrangement		Male	Female	Male	Female	Male	Female
							
Front-mounting with 2m Cable							
Connector Style	Mount Thread	Part Number					
 Male 	M16 X 1.5	268-B3000-15S020		268-B4000-15S020		268-B5000-15S020	
	Pg9	268-B3002-15S020		268-B4002-15S020		268-B5002-15S020	
 Female 	M16 X 1.5	269-B3000-15S020		269-B4000-15S020		269-B5000-15S020	
	Pg9	269-B3002-15S020		269-B4002-15S020		269-B5002-15S020	
Rear-mounting with 2m Cable							
Connector Style	Mount Thread	Part Number					
 Male 	M16 X 1.5	270-B3000-15S020		270-B4000-15S020		270-B5000-15S020	
	Pg9	270-B3002-15S020		270-B4002-15S020		270-B5002-15S020	
 Female 	M16 X 1.5	271-B3000-15S020		271-B4000-15S020		271-B5000-15S020	
	Pg9	271-B3002-15S020		271-B4002-15S020		271-B5002-15S020	

Cable lengths can be customized to your requirements. Please contact us for details.

M12 B-Code Device Connector (No Shield)

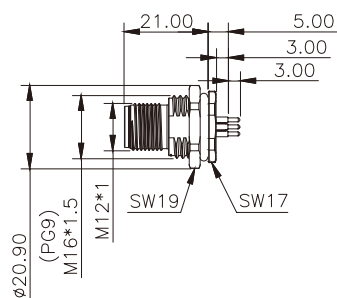
Coding and contacts	Code	B		B		B	
	Contacts	3		4		5	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A	
Contact Arrangement		Male	Female	Male	Female	Male	Female
							
Front-mounting with 0.5m conductor							
Connector Style	Mount Thread		 Part Number				
	M16 X 1.5		218-B3A00-0VSL50		218-B4A00-0VSL50		218-B5A00-0VSL50
	Pg9		218-B3A02-0VSL50		218-B4A02-0VSL50		218-B5A02-0VSL50
	M16 X 1.5		219-B3A00-0VSL50		219-B4A00-0VSL50		219-B5A00-0VSL50
	Pg9		219-B3A02-0VSL50		219-B4A02-0VSL50		219-B5A02-0VSL50
Rear-mounting with 0.5m conductor							
Connector Style	Mount Thread		 Part Number				
	M16 X 1.5		220-B3A00-0VSL50		220-B4A00-0VSL50		220-B5A00-0VSL50
	Pg9		220-B3A02-0VSL50		220-B4A02-0VSL50		220-B5A02-0VSL50
	M16 X 1.5		221-B3A00-0VSL50		221-B4A00-0VSL50		221-B5A00-0VSL50
	Pg9		221-B3A02-0VSL50		221-B4A02-0VSL50		221-B5A02-0VSL50
Front-mounting with Solder Cup							
Connector Style	Mount Thread		 Part Number				
	M16 X 1.5		232-B3000-S		232-B4000-S		232-B5000-S
	Pg9		232-B3002-S		232-B4002-S		232-B5002-S
	M16 X 1.5		233-B3000-S		233-B4000-S		233-B5000-S
	Pg9		233-B3002-S		233-B4002-S		233-B5002-S
Rear-mounting with Solder Cup							
Connector Style	Mount Thread		 Part Number				
	M16 X 1.5		230-B3000-S		230-B4000-S		230-B5000-S
	Pg9		230-B3002-S		230-B4002-S		230-B5002-S
	M16 X 1.5		231-B3000-S		231-B4000-S		231-B5000-S
	Pg9		231-B3002-S		231-B4002-S		231-B5002-S

Wire lengths can be customized to your requirements. Please contact us for details.

M12 B-Code One-piece PCB Circular Connector

Straight Pin Orientation, Rear-mounting (Shielded)

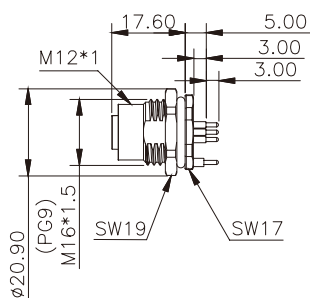
Male



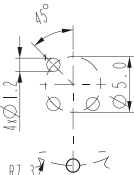
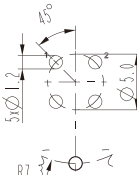
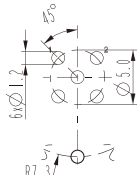
PCB Layout

Pin out			
			
Pin arrangement			
	3P	4P	5P
	B-code		

Female

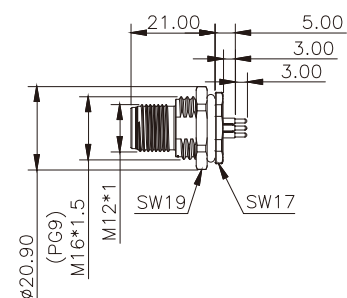


PCB Layout

Pin arrangement	Pin out		
	3P	4P	5P
			
			

Straight Pin Orientation, Rear-mounting (No Shield)

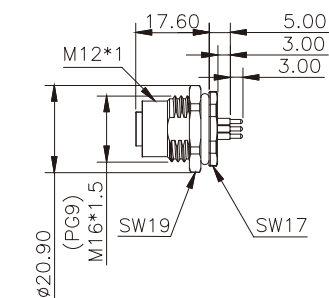
Male



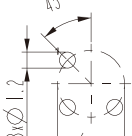
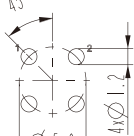
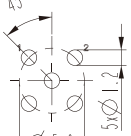
PCB Layout

Pin arrangement	Pin out		
			
	3P	4P	5P
	B-code		

Female



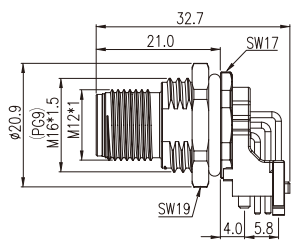
PCB Layout

Pin arrangement	Pin out		
			
3P			
4P			
B-code			
5P			

M12 B-Code One-piece PCB Circular Connector

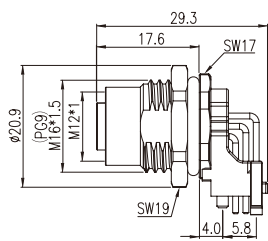
Angled Pin Orientation, Rear-mounting (No Shield)

Male



PCB Layout		
Pin out		
Pin arrangement		
	3P	5P
	B-code	

Female



PCB Layout		
Pin out		
Pin arrangement		
	3P	5P
	B-code	

M12 B-Code One-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40℃ ~ 80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)		
	60VAC / 4A (5 Pin)		
Rated Impulse Voltage	2.5kV (≤4 Pin)		
	1.5kV (5 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

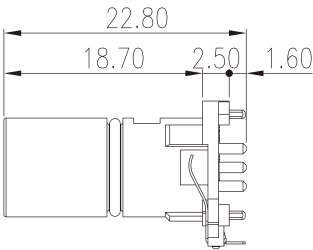
M12 B-Code One-piece PCB Connector (Shielded / No Shield)

Coding and contacts	Code	B		B		B	
	Contacts	3		4		5	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A	
Contact Arrangement		Male	Female	Male	Female	Male	Female
							
Rear-mounting, Straight, Shielded							
Connector Style	Mount Thread		 Part Number				
	M16 X 1.5		276-B3000-6		276-B4000-6		276-B5000-6
	Pg9		276-B3002-6		276-B4002-6		276-B5002-6
	M16 X 1.5		277-B3000-6		277-B4000-6		277-B5000-6
	Pg9		277-B3002-6		277-B4002-6		277-B5002-6
Rear-mounting, Straight, No Shield							
Connector Style	Mount Thread		 Part Number				
	M16 X 1.5		226-B3000-6		226-B4000-6		226-B5000-6
	Pg9		226-B3002-6		226-B4002-6		226-B5002-6
	M16 X 1.5		227-B3000-6		227-B4000-6		227-B5000-6
	Pg9		227-B3002-6		227-B4002-6		227-B5002-6
Rear-mounting, Angled, No Shield							
Connector Style	Mount Thread	Part Number					
	M16 X 1.5	228-B3000-3		228-B4000-3		228-B5000-3	
	Pg9	228-B3002-3		228-B4002-3		228-B5002-3	
	M16 X 1.5	229-B3000-3		229-B4000-3		229-B5000-3	
	Pg9	229-B3002-3		229-B4002-3		229-B5002-3	

M12 B-Code Two-piece PCB Circular Connector

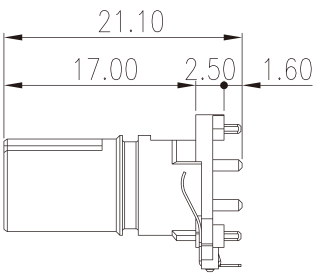
Straight Pin Orientation (Shielded)

Male



PCB Layout		
Pin out		
Pin arrangement		
	3P	5P
B-code		

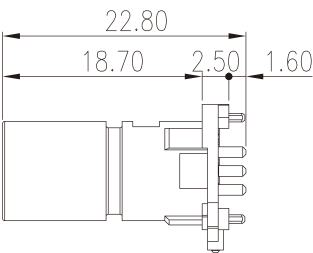
Female



PCB Layout		
Pin out		
Pin arrangement		
	3P	5P
B-code		

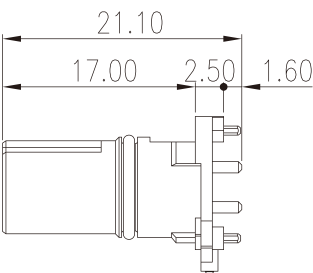
Straight Pin Orientation (No Shield)

Male



PCB Layout		
Pin out		
Pin arrangement		
	3P	5P
B-code		

Female

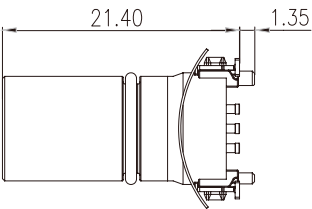


PCB Layout		
Pin out		
Pin arrangement		
	3P	5P
B-code		

M12 B-Code Two-piece PCB Circular Connector

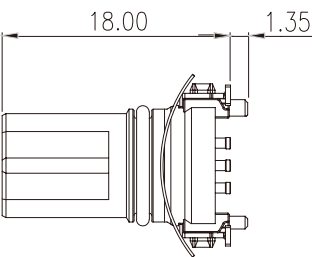
Straight Pin Orientation (Shielded)

Male



PCB Layout	
Pin out	PCB layout diagram for the male connector. Dimensions include 8.25, 4.25, 2.00, 2xR1.20, 0.80, 13.90, 9.10, 9.00, 5xR1.20, 1.60, 5.00, 1.20, and 5.00. The diagram shows the internal structure and pin locations.
Pin arrangement	Pin arrangement diagram for the male connector. It shows 5 pins in a circular pattern. The pins are numbered 1 through 5.
	5P
	B-code

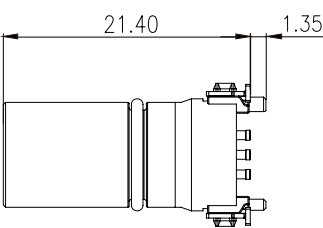
Female



PCB Layout	
Pin out	PCB layout diagram for the female connector. Dimensions include 8.25, 4.25, 2.00, 2xR1.20, 0.80, 13.90, 9.10, 9.00, 5xR1.20, 1.60, 5.00, 1.20, and 5.00. The diagram shows the internal structure and pin locations.
Pin arrangement	Pin arrangement diagram for the female connector. It shows 5 pins in a circular pattern. The pins are numbered 1 through 5.
	5P
	B-code

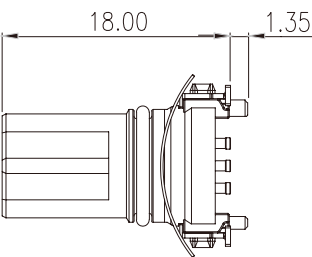
Straight Pin Orientation (No Shield)

Male



PCB Layout	
Pin out	PCB layout diagram for the male connector. Dimensions include 8.25, 4.25, 2.00, 2xR1.20, 0.80, 13.90, 9.10, 9.00, 5xR1.20, 1.60, 5.00, 1.20, and 5.00. The diagram shows the internal structure and pin locations.
Pin arrangement	Pin arrangement diagram for the male connector. It shows 5 pins in a circular pattern. The pins are numbered 1 through 5.
	5P
	B-code

Female



PCB Layout	
Pin out	PCB layout diagram for the female connector. Dimensions include 8.25, 4.25, 2.00, 2xR1.20, 0.80, 13.90, 9.10, 9.00, 5xR1.20, 1.60, 5.00, 1.20, and 5.00. The diagram shows the internal structure and pin locations.
Pin arrangement	Pin arrangement diagram for the female connector. It shows 5 pins in a circular pattern. The pins are numbered 1 through 5.
	5P
	B-code

M12 B-Code Two-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	LCP
Operating Temperature	-40°C ~ 125°C	O-ring	SILICONE
Soldering Method	Reflow Soldering (245°C)	Moisture Sensitivity Level (MSL)	1
		UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)		
	60VAC / 4A (5 Pin)		
Rated Impulse Voltage	2.5kV (≤4 Pin)		
	1.5kV (5 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 B-Code Two-piece PCB Connector (Shielded / No Shield)

Coding and contacts	Code	B		B		B	
	Contacts	3		4		5	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A	
Contact Arrangement		Male	Female	Male	Female	Male	Female
							
THR Soldering (Shielded)							
Connector Style	Packaging		 Part Number				
	Tray		281-B3T00S-1	281-B4T00S-1	281-B5T00S-1		
	Tape-on-reel		281-B3T00S-2	281-B4T00S-2	281-B5T00S-2		
	Tray		282-B3T00S-1	282-B4T00S-1	282-B5T00S-1		
	Tape-on-reel		282-B3T00S-2	282-B4T00S-2	282-B5T00S-2		
THR Soldering (No Shield)							
Connector Style	Packaging		 Part Number				
	Tray		281-B3T00U-1	281-B4T00U-1	281-B5T00U-1		
	Tape-on-reel		281-B3T00U-2	281-B4T00U-2	281-B5T00U-2		
	Tray		282-B3T00U-1	282-B4T00U-1	282-B5T00U-1		
	Tape-on-reel		282-B3T00U-2	282-B4T00U-2	282-B5T00U-2		
SMT Soldering (Shielded)							
Connector Style	Packaging	Part Number					
	Tray		-	-	281-B5S00S-1		
	Tape-on-reel		-	-	281-B5S00S-2		
	Tray		-	-	282-B5S00S-1		
	Tape-on-reel		-	-	282-B5S00S-2		
SMT Soldering (No Shield)							
Connector Style	Packaging	Part Number					
	Tray		-	-	281-B5S00U-1		
	Tape-on-reel		-	-	281-B5S00U-2		
	Tray		-	-	282-B5S00U-1		
	Tape-on-reel		-	-	282-B5S00U-2		

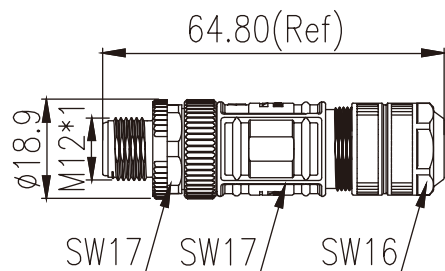
Tray Packaging Quantity: 60 Pcs
Tape-on-reel Packaging Quantity: 100 Pcs

M12 B-Code Two-piece PCB Connector (Shielded / No Shield)

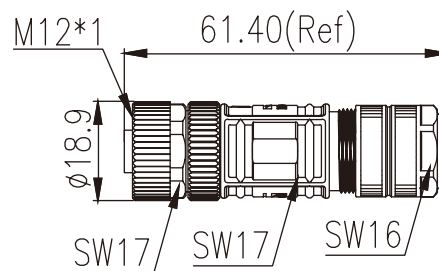
Coding and contacts	Code	B		B		B	
	Contacts	3		4		5	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A	
Contact Arrangement		Male	Female	Male	Female	Male	Female
							
Metal Housing							
Connector Style	Mount Thread	Part Number					
Male Housing 	M15 x 1	283-T1100					
Female Housing 	M15 x 1	284-T1100					

M12 B-Code Assembly Circular Connector

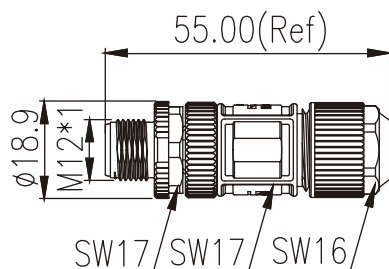
Straight Male (Shielded)



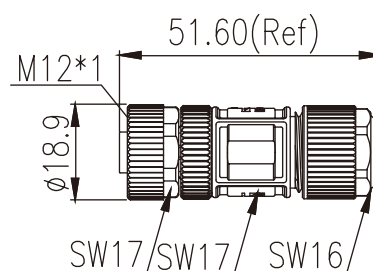
Straight Female (Shielded)



Straight Male (No Shield)



Straight Female (No Shield)



Unit: mm

M12 B-Code Assembly Connector

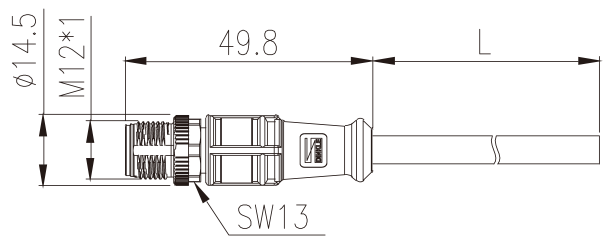
Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier / Press Handle	PA / N/A for Handle
Operating Temperature	-40℃ ~ 85℃	O-ring	NBR
Soldering Method	Hand Soldering	Housing	PA66 / Zinc Alloy
		UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)	Wire Size	18AWG~26AWG
	60VAC / 4A (5 Pin)	Applicable Cable Diameter	Φ4~Φ8
Rated Impulse Voltage	2.5kV (≤4 Pin)		
	1.5kV (5 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 B-Code Assembly Connector (Shielded / No Shield)

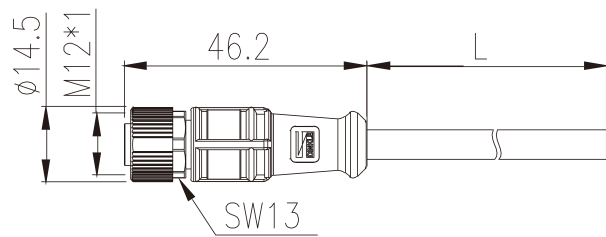
Coding and contacts	Code	B		B		B	
	Contacts	3		4		5	
Rated Voltage / Current		250V / 4A		250V / 4A		60V / 4A	
Contact Arrangement		Male	Female	Male	Female	Male	Female
							
Shield							
Connector Style	Wiring Method	Part Number					
Straight Male 	Soldering Type	293-B3A1		293-B4A1		293-B5A1	
Straight Female 		294-B3A1		294-B4A1		294-B5A1	
No Shield							
Connector Style	Wiring Method	Part Number					
Straight Male 	Soldering Type	243-B3A0		243-B4A0		243-B5A0	
Straight Female 		244-B3A0		244-B4A0		244-B5A0	

M12 D-Code Molded Circular Connector

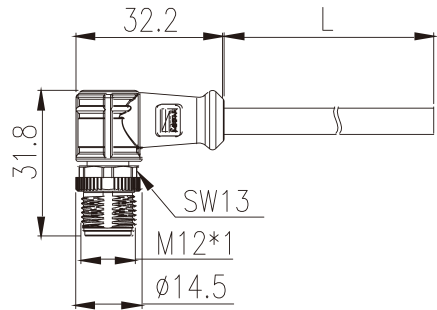
Single-ended straight Male



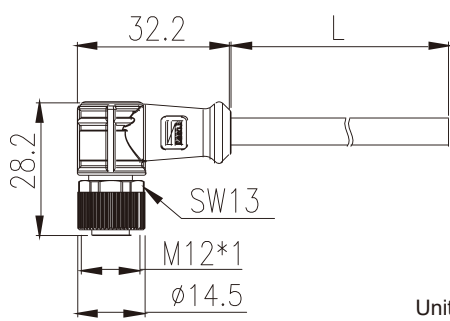
Single-ended straight Female



Single-ended angled Male

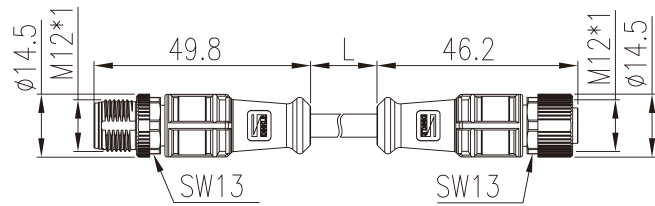


Single-ended angled Female

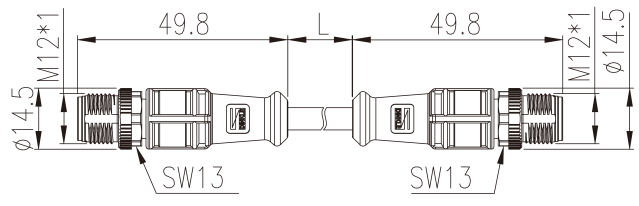


Unit: mm

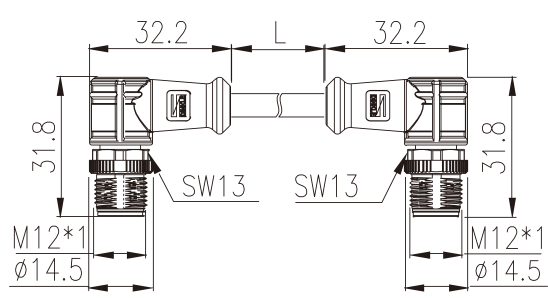
Straight Male + Straight Female



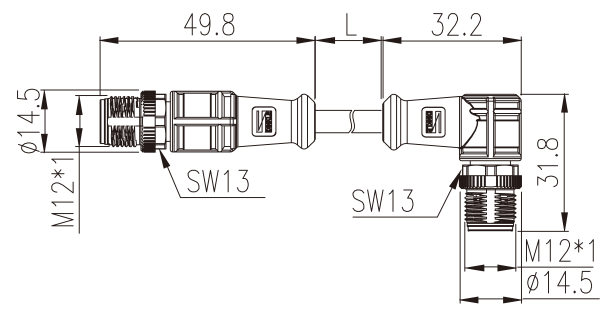
Straight Male + Straight Male



Angled Male + Angled Male



Straight Male + Angled Male



Unit: mm

M12 D-Code Molded Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67/IP68	Contact Carrier / Overmolding	PUR / PUR
Operating Temperature	-40°C ~ 80°C (Fixed Installation)	O-ring	NBR
	-25°C ~ 80°C (Flexible Installation)	Cable gland material	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	UL 94 Flammability Rating	HB
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)	Cable Jacket	PUR/PVC, BLACK
		UL AWM Style	Shield PUR : UL AWM 20549 / PVC : UL AWM 2464
Rated Impulse Voltage	2.5kV (≤4 Pin)		No Shield PUR : UL AWM 20549 / PVC : UL AWM 2464
			Drag Chain PUR : UL AWM 20549
Insulation Resistance	Min.100MΩ	Conductor Cross-section	0.34mm ² /22AWG (≤4 Pin)
Overvoltage Category	II	Material Conductor Insulation	PE/PVC
Pollution Degree	3	Flame Resistance	FT-2 / VW-1
		Dielectric Strength	2.0KV/1min
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 D-Code Molded Connector (Shielded)

Coding and contacts		Code	D	
		Contacts	4	
Rated Voltage / Current			250V / 4A	
Contact Arrangement			Male	Female
				
Connector Style	Cable	Length (m)	 Part Number	
Single-ended straight Male  	PVC	2	251-D4A00-25S020	
		5	251-D4A00-25S050	
		10	251-D4A00-25S100	
	PUR	2	251-D4A00-05S020	
		5	251-D4A00-05S050	
		10	251-D4A00-05S100	
Single-ended straight Female  	PVC	2	252-D4A00-25S020	
		5	252-D4A00-25S050	
		10	252-D4A00-25S100	
	PUR	2	252-D4A00-05S020	
		5	252-D4A00-05S050	
		10	252-D4A00-05S100	
Single-ended angled Male  	PVC	2	253-D4A00-25S020	
		5	253-D4A00-25S050	
		10	253-D4A00-25S100	
	PUR	2	253-D4A00-05S020	
		5	253-D4A00-05S050	
		10	253-D4A00-05S100	
Single-ended angled Female  	PVC	2	254-D4A00-25S020	
		5	254-D4A00-25S050	
		10	254-D4A00-25S100	
	PUR	2	254-D4A00-05S020	
		5	254-D4A00-05S050	
		10	254-D4A00-05S100	
Straight Male + Straight Female  	PVC	0.6	256-D4A00-25SL60	
		1.5	256-D4A00-25S015	
		3	256-D4A00-25S030	
	PUR	0.6	256-D4A00-05SL60	
		1.5	256-D4A00-05S015	
		3	256-D4A00-05S030	
Angled Male + Angled Female  	PVC	0.6	259-D4A00-20SL60	
		1.5	259-D4A00-20S015	
		3	259-D4A00-20S030	
	PUR	0.6	259-D4A00-00SL60	
		1.5	259-D4A00-00S015	
		3	259-D4A00-00S030	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 D-Code Molded Connector (No Shield)

Coding and contacts		Code	D
		Contacts	4
Rated Voltage / Current		250V / 4A	
Contact Arrangement		Male	Female
			
Connector Style	Cable	Length (m)	 Part Number
Single-ended straight Male 	PVC	2	201-D4A00-20S020
		5	201-D4A00-20S050
		10	201-D4A00-20S100
	PUR	2	201-D4A00-00S020
		5	201-D4A00-00S050
		10	201-D4A00-00S100
Single-ended straight Female 	PVC	2	202-D4A00-20S020
		5	202-D4A00-20S050
		10	202-D4A00-20S100
	PUR	2	202-D4A00-00S020
		5	202-D4A00-00S050
		10	202-D4A00-00S100
Single-ended angled Male 	PVC	2	203-D4A00-20S020
		5	203-D4A00-20S050
		10	203-D4A00-20S100
	PUR	2	203-D4A00-00S020
		5	203-D4A00-00S050
		10	203-D4A00-00S100
Single-ended angled Female 	PVC	2	204-D4A00-20S020
		5	204-D4A00-20S050
		10	204-D4A00-20S100
	PUR	2	204-D4A00-00S020
		5	204-D4A00-00S050
		10	204-D4A00-00S100
Straight Male + Straight Female 	PVC	0.6	206-D4A00-20SL60
		1.5	206-D4A00-20S015
		3	206-D4A00-20S030
	PUR	0.6	206-D4A00-00SL60
		1.5	206-D4A00-00S015
		3	206-D4A00-00S030
Angled Male + Angled Female 	PVC	0.6	209-D4A00-20SL60
		1.5	209-D4A00-20S015
		3	209-D4A00-20S030
	PUR	0.6	209-D4A00-00SL60
		1.5	209-D4A00-00S015
		3	209-D4A00-00S030

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 D-Code Drag Chain Molded Connector (No Shield)

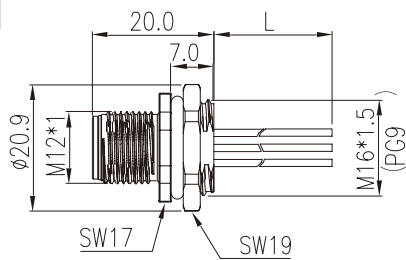
Coding and contacts		Code	D	
		Contacts	4	
Rated Voltage / Current			250V / 4A	
Contact Arrangement			Male	Female
				
Connector Style	Cable	Length (m)	Part Number	
 Single-ended straight Male	PUR	2	201-D4A00-02S020	
		5	201-D4A00-02S050	
		10	201-D4A00-02S100	
 Single-ended straight Female	PUR	2	202-D4A00-02S020	
		5	202-D4A00-02S050	
		10	202-D4A00-02S100	
 Single-ended angled Male	PUR	2	203-D4A00-02S020	
		5	203-D4A00-02S050	
		10	203-D4A00-02S100	
 Single-ended angled Female	PUR	2	204-D4A00-02S020	
		5	204-D4A00-02S050	
		10	204-D4A00-02S100	
 Straight Male + Straight Female	PUR	0.6	206-D4A00-02SL60	
		1.5	206-D4A00-02S015	
		3	206-D4A00-02S030	
 Angled Male + Angled Female	PUR	0.6	209-D4A00-02SL60	
		1.5	209-D4A00-02S015	
		3	209-D4A00-02S030	

The drag-chain cable is rated for 5 million bending cycles (R=28 mm, L=1 m, V=1 m/s). Cable lengths and connector configurations can be customized to your requirements. Please contact us for details.

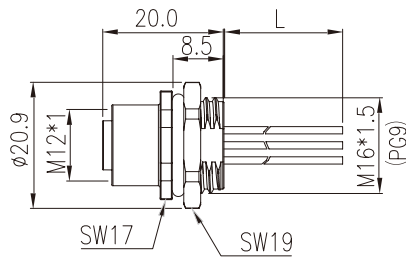
M12 D-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male

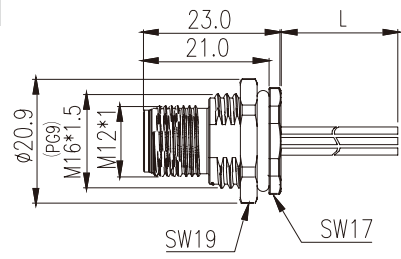


Female

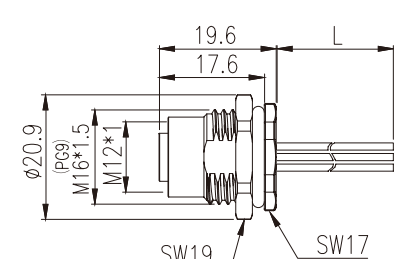


Rear-mounting with 0.5m Wires

Male

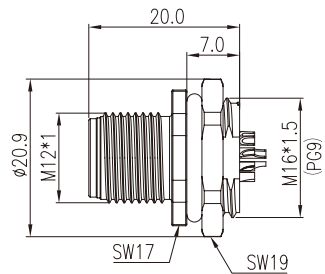


Female

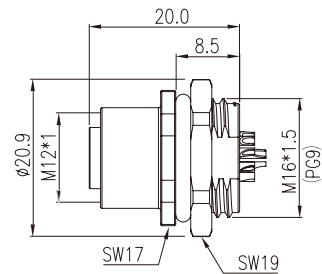


Front-mounting with Solder Cup

Male

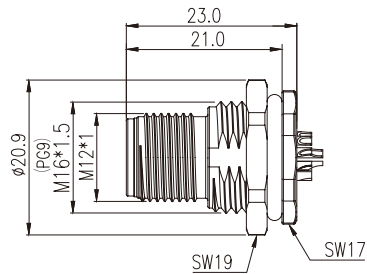


Female

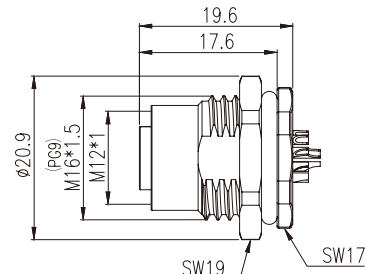


Rear-mounting with Solder Cup

Male



Female



Pin Assignments and Wire Colors

Pin out	Pin arrangement	
		
	4P	
		D code
	1	Yellow
	1	Yellow
	3	Orange
	4	Blue

M12 D-Code Device Connector

Mechanical Properties		Material Properties		
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated	
Degree of Protection	IP67	Contact Carrier	PA	
Operating Temperature	-40℃ ~ 80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated	
Fasten torque	0.4 Nm	O-ring	NBR	
Mounting Torque	0.8 Nm	UL 94 Flammability Rating	V0	
Electrical Properties		Cable Information		
Rated Voltage / Rated Current	30VAC / 4A (≤4 Pin)	Wire Jacket	Shield	PUR, BLUE
			No Shield	PVC
Rated Impulse Voltage	2.5kV (≤4 Pin)	UL AWM Style	Shield	PUR : UL20963
			No Shield	PVC : UL 1061
Insulation Resistance	Min.100MΩ	Conductor Cross-section	0.14mm ² / 26AWG (≤4 Pin)	
Overvoltage Category	II		0.34mm ² / 22AWG (≤4 Pin)	
Pollution Degree	3	Material Conductor Insulation	HD-PE	
		Flame Resistance	FT2	
		Dielectric Strength	1.0KV/1min DC	
Standards and Regulations				
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking			
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods			
	IEC 60529: Degree of protection provided by enclosures (IP Code)			
Certification reference	UL 2238			
Notice				
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.				

M12 D-Code Device Connector (Shielded)

Coding and contacts	Code	D	
	Contacts	4	
Rated Voltage / Current		250V / 4A	
Contact Arrangement		Male	Female
			
Front-mounting with 2m PUR Cable			
Connector Style	Mount Thread	Part Number	
 Male	M16 X 1.5	268-D4000-15S020	
	Pg9	268-D4002-15S020	
 Female	M16 X 1.5	269-D4000-15S020	
	Pg9	269-D4002-15S020	
Rear-mounting with 2m PUR Cable			
Connector Style	Mount Thread	Part Number	
 Male	M16 X 1.5	270-D4000-15S020	
	Pg9	270-D4002-15S020	
 Female	M16 X 1.5	271-D4000-15S020	
	Pg9	271-D4002-15S020	

Cable lengths can be customized to your requirements. Please contact us for details.

M12 D-Code Device Connector (No Shield)

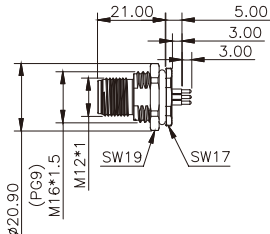
Coding and contacts	Code	D	
	Contacts	4	
Rated Voltage / Current		250V / 4A	
Contact Arrangement		Male 	Female 
Front-mounting with 0.5m conductor			
Connector Style	Mount Thread	UL Part Number	
Male 	M16 X 1.5	218-D4A00-0VSL50	
	Pg9	218-D4A02-0VSL50	
Female 	M16 X 1.5	219-D4A00-0VSL50	
	Pg9	219-D4A02-0VSL50	
Rear-mounting with 0.5m conductor			
Connector Style	Mount Thread	UL Part Number	
Male 	M16 X 1.5	220-D4A00-0VSL50	
	Pg9	220-D4A02-0VSL50	
Female 	M16 X 1.5	221-D4A00-0VSL50	
	Pg9	221-D4A02-0VSL50	
Front-mounting with Solder Cup			
Connector Style	Mount Thread	UL Part Number	
Male 	M16 X 1.5	232-D4000-S	
	Pg9	232-D4002-S	
Female 	M16 X 1.5	233-D4000-S	
	Pg9	233-D4002-S	
Rear-mounting with Solder Cup			
Connector Style	Mount Thread	UL Part Number	
Male 	M16 X 1.5	230-D4000-S	
	Pg9	230-D4002-S	
Female 	M16 X 1.5	231-D4000-S	
	Pg9	231-D4002-S	

Wire lengths can be customized to your requirements. Please contact us for details.

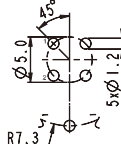
M12 D-Code One-piece PCB Circular Connector

Straight Pin Orientation, Rear-mounting (Shielded)

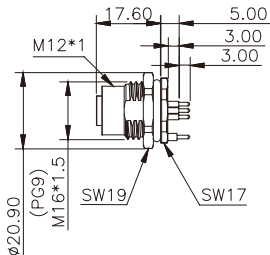
Male



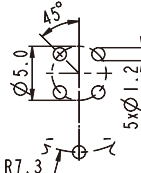
PCB Layout

Pin arrangement	Pin out
 4P D- code	

Fema

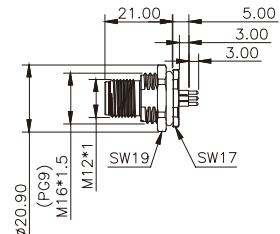


PCB Layout

Pin arrangement	 4P D- code
Pin out	

Straight Pin Orientation, Rear-mounting (No Shield)

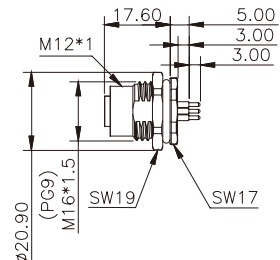
Male



PCB Layout

Pin out	
Pin arrangement	
	4P
	D- code

Fema



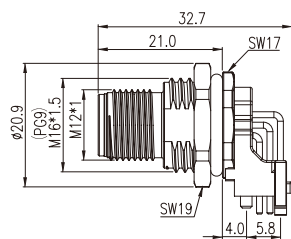
PCB Layout

Pin out	
Pin arrangement	
	4P
	D- code

M12 D-Code One-piece PCB Connector

Angled Pin Orientation, Rear-mounting (No Shield)

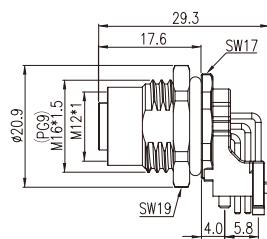
Male



PCB Layout

Pin out	
Pin arrangement	
	4P
	D- code

Female



PCB Layout

Pin out	
Pin arrangement	
	4P
	D- code

M12 D-Code One-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)		
Rated Impulse Voltage	2.5kV (≤4 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

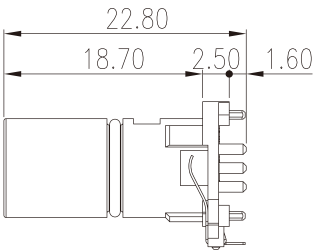
M12 D-Code One-piece PCB Connector (Shielded / No Shield)

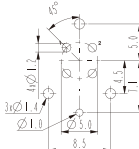
Coding and contacts	Code	D	
	Contacts	4	
Rated Voltage / Current		250V / 4A	
Contact Arrangement		Male 	Female 
Rear-mounting, Straight, Shielded			
Connector Style	Mount Thread	 Part Number	
 Male	M16 X 1.5	276-D4000-6	
	Pg9	276-D4002-6	
 Female	M16 X 1.5	277-D4000-6	
	Pg9	277-D4002-6	
Rear-mounting, Straight, No Shield			
Connector Style	Mount Thread	 Part Number	
 Male	M16 X 1.5	226-D4000-6	
	Pg9	226-D4002-6	
 Female	M16 X 1.5	227-D4000-6	
	Pg9	227-D4002-6	
Rear-mounting, Angled, No Shield			
Connector Style	Mount Thread	Part Number	
 Male with PCB Pin	M16 X 1.5	228-D4000-3	
	Pg9	228-D4002-3	
 Female with PCB Pin	M16 X 1.5	229-D4000-3	
	Pg9	229-D4002-3	

M12 D-Code Two-piece PCB Circular Connector

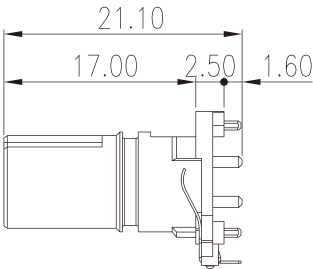
Straight Pin Orientation (Shielded)

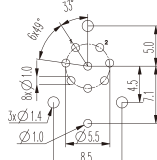
Male



PCB Layout	
Pin out	
Pin arrangement	
	4P
	D-code

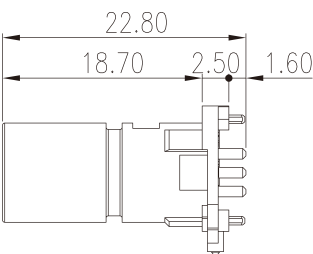
Female

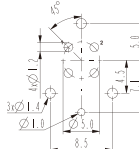


PCB Layout	
Pin out	
Pin arrangement	
	4P
	D-code

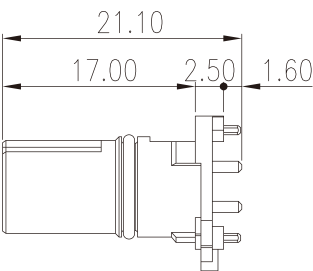
Straight Pin Orientation (No Shield)

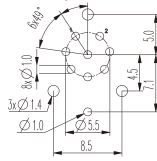
Male



PCB Layout	
Pin out	
Pin arrangement	
	4P
	D-code

Female



PCB Layout	
Pin out	
Pin arrangement	
	4P
	D-code

M12 D-Code Two-piece PCB Circular Connector

Straight Pin Orientation (Shielded)

Male	PCB Layout	
	Pin out	
	Pin arrangement	4P D-code

Straight Pin Orientation (No Shield)

Male	PCB Layout	
	Pin out	
	Pin arrangement	4P D-code
Female	PCB Layout	
	Pin out	
	Pin arrangement	4P D-code

M12 D-Code Two-piece PCB Circular Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	LCP
Operating Temperature	-40°C ~ 125°C	O-ring	SILICONE
Soldering Method	Reflow Soldering (245°C)	Moisture Sensitivity Level (MSL)	1
		UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)		
Rated Impulse Voltage	2.5kV (≤4 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 D-Code Two-piece PCB Connector (Shielded / No Shield)

Coding and contacts	Code	D	
	Contacts	4	
Rated Voltage / Current		30V / 2A	
Contact Arrangement		Male 	Female 
THR Soldering (Shielded)			
Connector Style	Packaging		Part Number
Male 	Tray	281-D4T00S-1	
	Tape-on-reel	281-D4T00S-2	
Female 	Tray	282-D4T00S-1	
	Tape-on-reel	282-D4T00S-2	
THR Soldering (No Shield)			
Connector Style	Packaging		Part Number
Male 	Tray	281-D4T00U-1	
	Tape-on-reel	281-D4T00U-2	
Female 	Tray	282-D4T00U-1	
	Tape-on-reel	282-D4T00U-2	
SMT Soldering (Shielded)			
Connector Style	Packaging	Part Number	
Male 	Tray	281-D4S00S-1	
	Tape-on-reel	281-D4S00S-2	
Female 	Tray	282-D4S00S-1	
	Tape-on-reel	282-D4S00S-2	
SMT Soldering (No Shield)			
Connector Style	Packaging	Part Number	
Male 	Tray	281-D4S00U-1	
	Tape-on-reel	281-D4S00U-2	
Female 	Tray	 282-D4S00U-1	
	Tape-on-reel	 282-D4S00U-2	

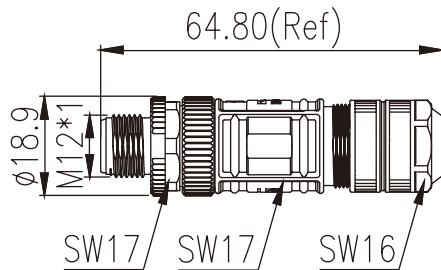
Tray Packaging Quantity: 60 Pcs
Tape-on-reel Packaging Quantity: 100 Pcs

M12 D-Code Two-piece PCB Connector (Shielded / No Shield)

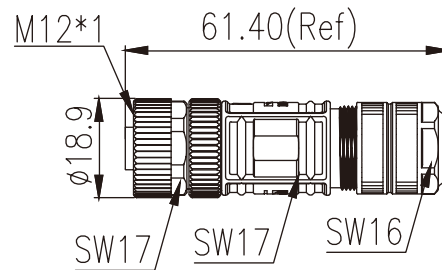
Coding and contacts	Code	D	
	Contacts	4	
Rated Voltage / Current		30V / 2A	
Contact Arrangement		Male 	Female 
Metal Housing			
Connector Style	Mount Thread	Part Number	
Male Housing 	M15 x 1	283-T1100	
Female Housing 	M15 x 1	284-T1100	

M12 D-Code Assembly Circular Connector

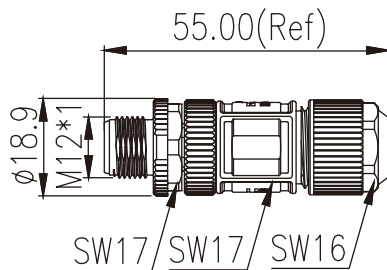
Straight Male (Shielded)



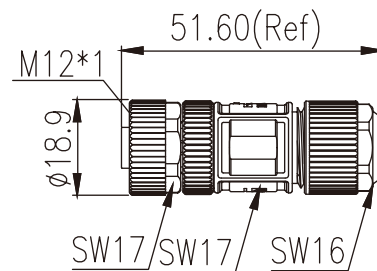
Straight Female (Shielded)



Straight Male (No Shield)



Straight Female (No Shield)



Unit: mm

M12 D-Code Assembly Connector

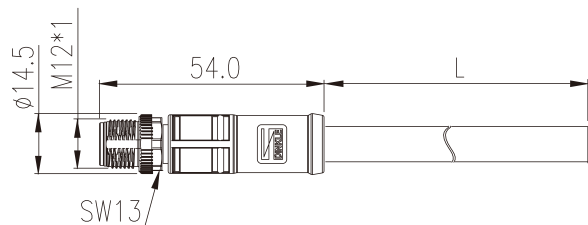
Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier / Press Handle	PA / N/A for Handle
Operating Temperature	-40℃ ~ 125℃	O-ring	NBR
Soldering Method	Hand Soldering	Housing	PA66 / Zinc Alloy
		UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)	Wire Size	18AWG~26AWG
Rated Impulse Voltage	2.5kV (≤4 Pin)	Applicable Cable Diameter	Φ4~Φ8
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 D-Code Assembly Connector (Shielded / No Shield)

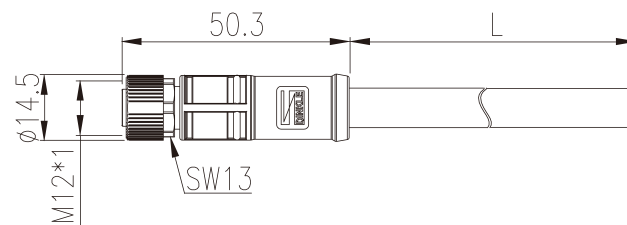
Coding and contacts	Code	D	
	Contacts	4	
Rated Voltage / Current		250V / 4A	
Contact Arrangement		Male	Female
			
Shield			
Connector Style	Wiring Method	Part Number	
Straight Male 	Soldering Type	293-D4A1	
Straight Female 		294-D4A1	
No Shield			
Connector Style	Wiring Method	Part Number	
Straight Male 	Soldering Type	243-D4A0	
Straight Female 		244-D4A0	

M12 S-Code Molded Circular Connector

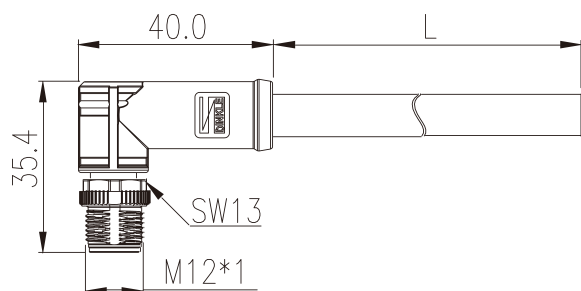
Single-ended straight Male



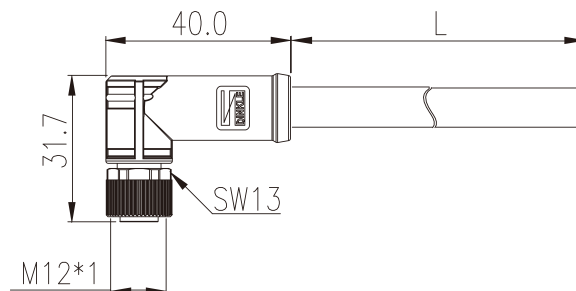
Single-ended straight Female



Single-ended angled Male

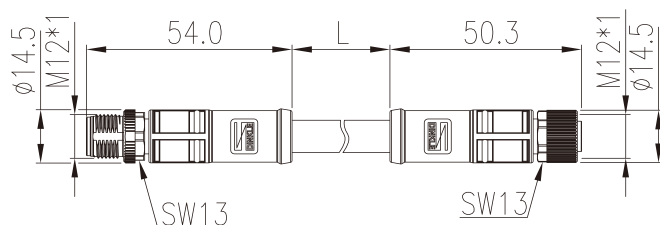


Single-ended angled Female

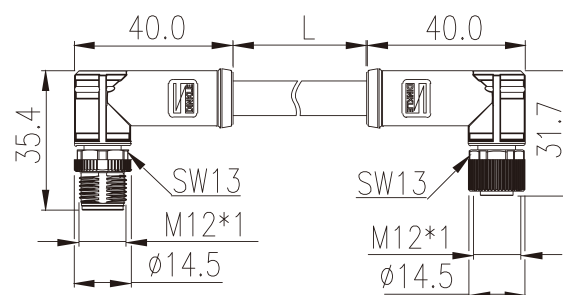


Unit: mm

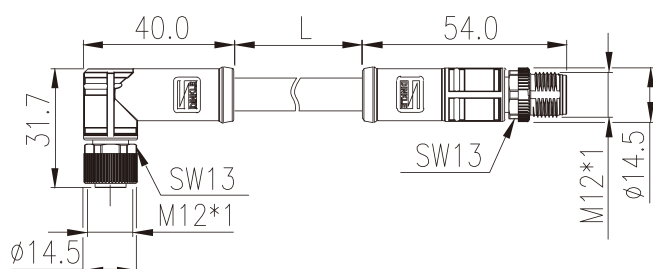
Straight Male + Straight Female



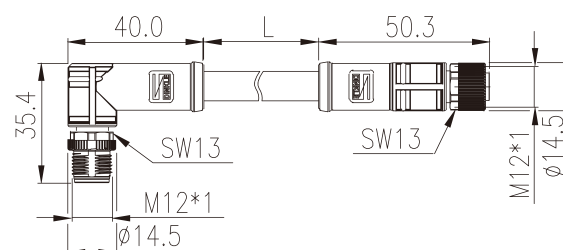
Straight Male + Straight Male



Angled Male + Angled Male



Straight Male + Angled Male



Unit: mm

M12 S-Code Molded Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier / Overmolding	PUR / PP
Operating Temperature	-40°C ~ 80°C (Fixed Installation)	O-ring	NBR
	-25°C ~ 80°C (Flexible Installation)	Cable gland material	Zinc Alloy, Nickel-Plated
Fasten torque	0.4 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	630VAC / 16A (3 Pin)	Cable Jacket	PUR, BLACK
	630VAC / 12A (4 Pin)	UL AWM Style	No Shield PUR : UL AWM 20234
Rated Impulse Voltage	6kV (3 Pin)	Conductor Cross-section	1.5mm ² /16AWG (3 Pin)
	6kV (4 Pin)		1.5mm ² /16AWG (4 Pin)
Insulation Resistance	Min.100MΩ	Material Conductor Insulation	PP
Overvoltage Category	III	Flame Resistance	VW-1/FT1
Pollution Degree	3	Dielectric Strength	4.0KV/1min
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2237		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 S-Code Molded Connector (No Shield)

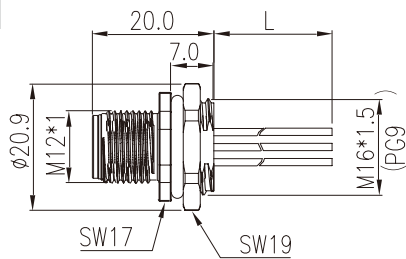
Coding and contacts		Code	S		S	
		Contacts	3(2+PE)		4(3+PE)	
Rated Voltage / Current			630V / 16A		630V / 12A	
Contact Arrangement			Male	Female	Male	Female
						
Connector Style	Cable	Length (m)		Part Number		
Single-ended straight Male 	PUR	2		201-S3303-02S020		201-S4303-02S020
		5		201-S3303-02S050		201-S4303-02S050
		10		201-S3303-02S100		201-S4303-02S100
Single-ended straight Female 	PUR	2		202-S3303-02S020		202-S4303-02S020
		5		202-S3303-02S050		202-S4303-02S050
		10		202-S3303-02S100		202-S4303-02S100
Single-ended angled Male 	PUR	2		203-S3303-02S020		203-S4303-02S020
		5		203-S3303-02S050		203-S4303-02S050
		10		203-S3303-02S100		203-S4303-02S100
Single-ended angled Female 	PUR	2		204-S3303-02S020		204-S4303-02S020
		5		204-S3303-02S050		204-S4303-02S050
		10		204-S3303-02S100		204-S4303-02S100
Straight Male + Straight Female 	PUR	0.6		206-S3303-02SL60		206-S4303-02SL60
		1.5		206-S3303-02S015		206-S4303-02S015
		3		206-S3303-02S030		206-S4303-02S030
Angled Male + Angled Female 	PUR	0.6		209-S3303-02SL60		209-S4303-02SL60
		1.5		209-S3303-02S015		209-S4303-02S015
		3		209-S3303-02S030		209-S4303-02S030

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

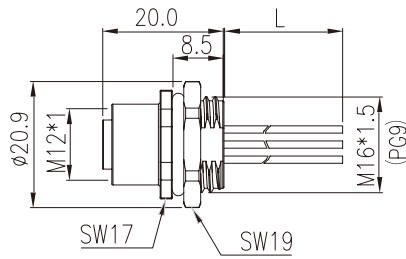
M12 S-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male

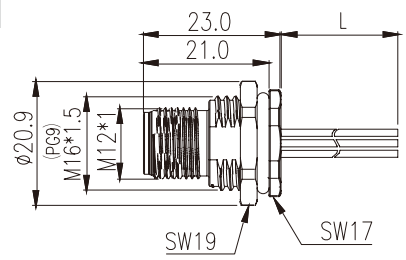


Female

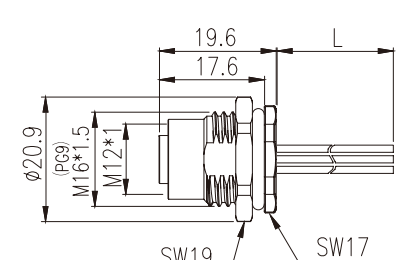


Rear-mounting with 0.5m Wires

Male

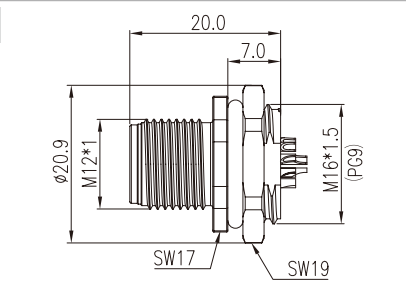


Female

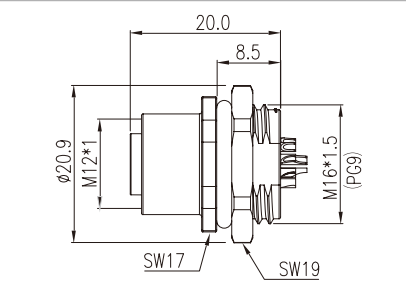


Front-mounting with Solder Cup

Male

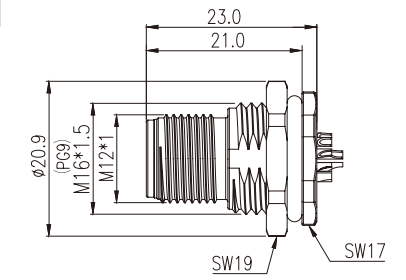


Female

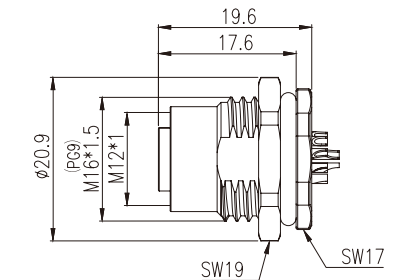


Rear-mounting with Solder Cup

Male



Female



Pin Assignments and Wire Colors

Pin arrangement						
	3P			4P		
	S code					
Pin out	1	Black		1	Black	
	2	-		2	Black	
	3	Black		3	Black	
	PE	Yellow / Green		PE	Yellow / Green	

M12 S-Code Device Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40℃ ~ 80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated
Fasten torque	0.4 Nm	O-ring	NBR
Mounting Torque	0.8 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	630VAC / 16A (3 Pin)	Cable Jacket	MPPE
	630VAC / 12A (4 Pin)	UL AWM Style	No Shield MPPE : AWM 11029
Rated Impulse Voltage	6kV (3 Pin)	Conductor Cross-section	1.5mm ² /16AWG (3 Pin)
	6kV (4 Pin)		1.5mm ² /16AWG (4 Pin)
Insulation Resistance	Min.100MΩ	Material Conductor Insulation	MPPE
Overvoltage Category	III	Flame Resistance	VW-1 / FT1
Pollution Degree	3	Dielectric Strength	NA
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

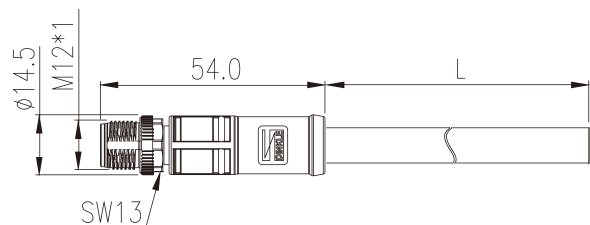
M12 S-Code Device Connector (No Shield)

Coding and contacts	Code	S		S	
	Contacts	3(2+PE)		4(3+PE)	
Rated Voltage / Current		630V / 16A		630V / 12A	
Contact Arrangement		Male 	Female 	Male 	Female 
Front-mounting with 0.5m conductor					
Connector Style	Mount Thread		Part Number		
Male 	M16 X 1.5	218-S3300-0MSL50		218-S4300-0MSL50	
	Pg9	218-S3302-0MSL50		218-S4302-0MSL50	
Female 	M16 X 1.5	219-S3300-0MSL50		219-S4300-0MSL50	
	Pg9	219-S3302-0MSL50		219-S4302-0MSL50	
Rear-mounting with 0.5m conductor					
Connector Style	Mount Thread		Part Number		
Male 	M16 X 1.5	220-S3300-0MSL50		220-S4300-0MSL50	
	Pg9	220-S3302-0MSL50		220-S4302-0MSL50	
Female 	M16 X 1.5	221-S3300-0MSL50		221-S4300-0MSL50	
	Pg9	221-S3302-0MSL50		221-S4302-0MSL50	

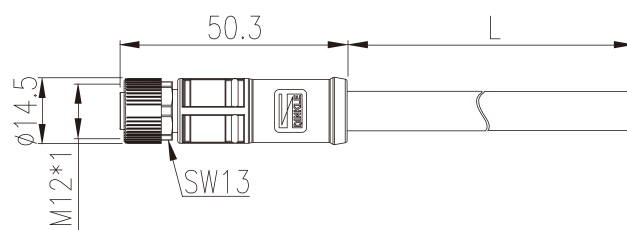
Wire lengths can be customized to your requirements. Please contact us for details.

M12 T-Code Molded Circular Connector

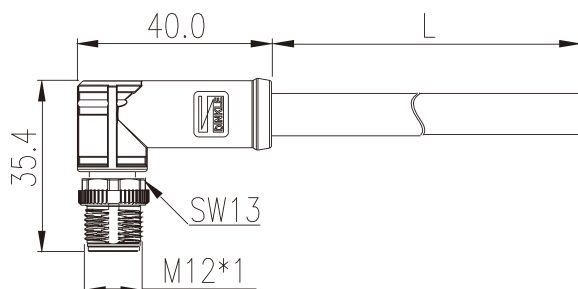
Single-ended straight Male



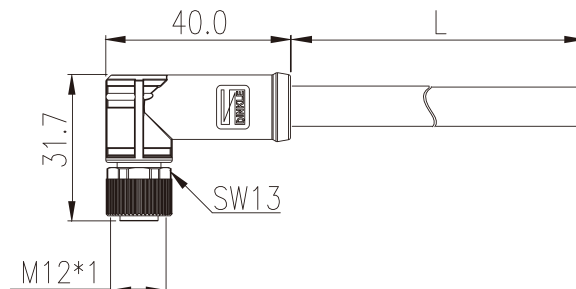
Single-ended straight Female



Single-ended angled Male

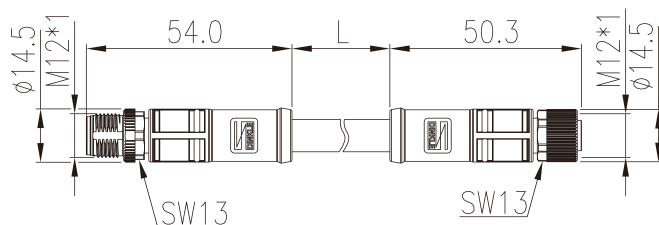


Single-ended angled Female

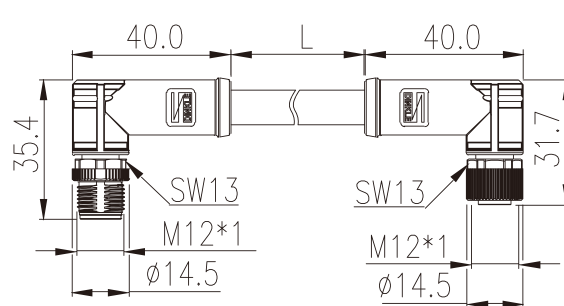


Unit: mm

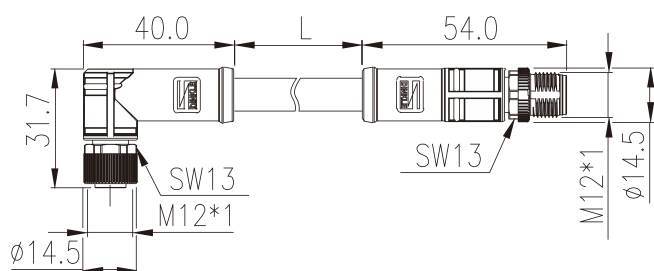
Straight Male + Straight Female



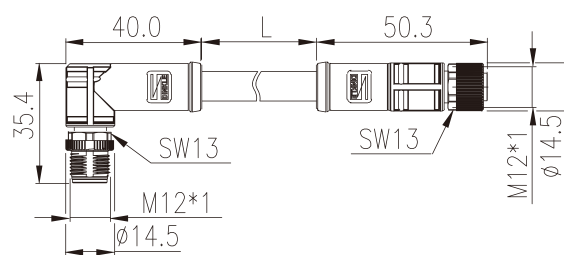
Straight Male + Straight Male



Angled Male + Angled Male



Straight Male + Angled Male



Unit: mm

M12 T-Code Molded Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier / Overmolding	PUR / PP
Operating Temperature	-40°C ~ 80°C (Fixed Installation)	O-ring	NBR
	-25°C ~ 80°C (Flexible Installation)	Cable gland material	Zinc Alloy, Nickel-Plated
Fasten torque	0.4 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	63VAC / 12A (4 Pin)	Cable Jacket	PUR, BLACK
Rated Impulse Voltage	1.5kV (4 Pin)	UL AWM Style	No Shield PUR : UL AWM 20936
Insulation Resistance	Min.100MΩ	Conductor Cross-section	1.5mm ² /16AWG (4 Pin)
Overvoltage Category	III	Material Conductor Insulation	PP
Pollution Degree	3	Flame Resistance	VW-1/FT1
		Dielectric Strength	2.0KV/1min
Standards and Regulations			
Design reference	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2237		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 T-Code Molded Connector (No Shield)

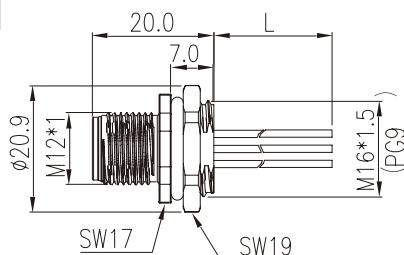
Coding and contacts		Code	T
		Contacts	4
Rated Voltage / Current			63V / 12A
Contact Arrangement			Male  Female 
Connector Style	Cable	Length (m)	Part Number
Single-ended straight Male 	PUR	2	201-T4303-02S020
		5	201-T4303-02S050
		10	201-T4303-02S100
Single-ended straight Female 	PUR	2	202-T4303-02S020
		5	202-T4303-02S050
		10	202-T4303-02S100
Single-ended angled Male 	PUR	2	203-T4303-02S020
		5	203-T4303-02S050
		10	203-T4303-02S100
Single-ended angled Female 	PUR	2	204-T4303-02S020
		5	204-T4303-02S050
		10	204-T4303-02S100
Straight Male + Straight Female 	PUR	0.6	206-T4303-02SL60
		1.5	206-T4303-02S015
		3	206-T4303-02S030
Angled Male + Angled Female 	PUR	0.6	209-T4303-02SL60
		1.5	209-T4303-02S015
		3	209-T4303-02S030

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

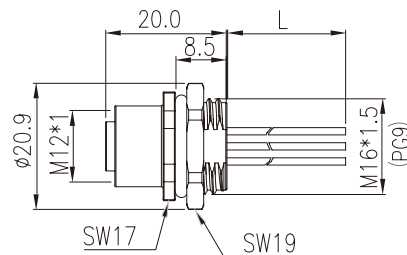
M12 T-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male

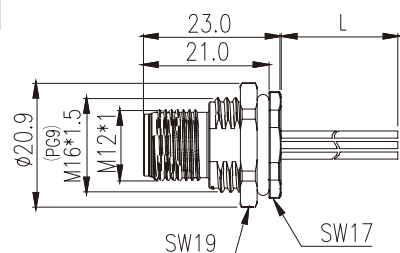


Female

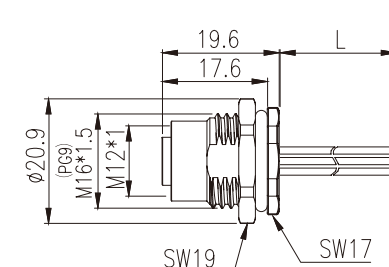


Rear-mounting with 0.5m Wires

Male

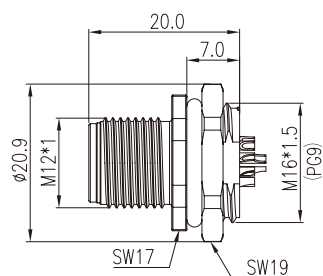


Female

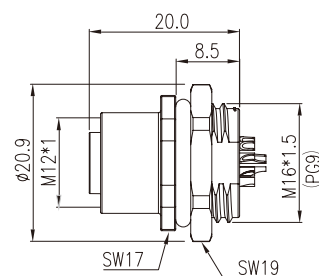


Front-mounting with Solder Cup

Male

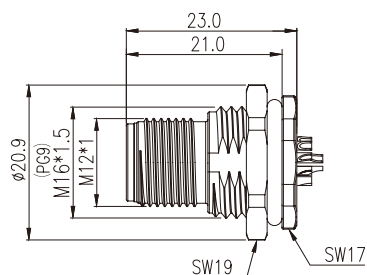


Female

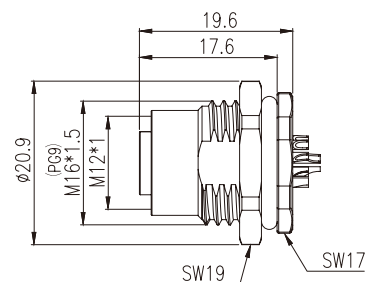


Rear-mounting with Solder Cup

Male



Female



Pin Assignments and Wires

		Pin arrangement	
Pin out	1		Brown
	2		White
	3		Blue
	4		Black
			4P

M12 T-Code Device Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated
Fasten torque	0.4 Nm	O-ring	NBR
Mounting Torque	0.8 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	63VAC / 12A (4 Pin)	Wire Jacket	MPPE
Rated Impulse Voltage	1.5kV (4 Pin)	UL AWM Style	MPPE : AWM 11027
Insulation Resistance	Min.100MΩ	Conductor Cross-section	1.5mm ² / 16AWG (4 Pin)
Overvoltage Category	III	Material Conductor Insulation	MPPE
Pollution Degree	3	Flame Resistance	VW-1 / FT1
		Dielectric Strength	NA
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2237		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 T-Code Device Connector (No Shield)

Coding and contacts	Code	T	
	Contacts	4	
Rated Voltage / Current		63V / 12A	
Contact Arrangement		Male 	Female 
Front-mounting with 0.5m conductor			
Connector Style	Mount Thread	 Part Number	
Male 	M16 X 1.5	218-T4300-0MSL50	
	Pg9	218-T4302-0MSL50	
Female 	M16 X 1.5	219-T4300-0MSL50	
	Pg9	219-T4302-0MSL50	
Rear-mounting with 0.5m conductor			
Connector Style	Mount Thread	 Part Number	
Male 	M16 X 1.5	220-T4300-0MSL50	
	Pg9	220-T4302-0MSL50	
Female 	M16 X 1.5	221-T4300-0MSL50	
	Pg9	221-T4302-0MSL50	

Wire lengths can be customized to your requirements. Please contact us for details.

M12 T-Code One-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	63VAC / 12A (4 Pin)		
Rated Impulse Voltage	1.5kV (4 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	III		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2237		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 T-Code One-piece PCB Connector (Shielded / No Shield)

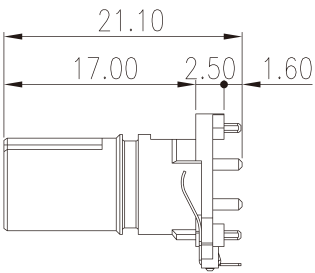
Coding and contacts	Code	T	
	Contacts	4	
Rated Voltage / Current		63V / 12A	
Contact Arrangement		Male 	Female 
Rear-mounting, Straight, Shielded			
Connector Style	Mount Thread	cULus Part Number	
Male  	M16 X 1.5	276-T4300-6	
	Pg9	276-T4302-6	
Female  	M16 X 1.5	277-T4300-6	
	Pg9	277-T4302-6	
Rear-mounting, Straight, No Shield			
Connector Style	Mount Thread	cULus Part Number	
Male 	M16 X 1.5	226-T4300-6	
	Pg9	226-T4302-6	
Female 	M16 X 1.5	227-T4300-6	
	Pg9	227-T4302-6	

Bolded part numbers are cULus certified.

M12 X-Code Two-piece PCB Circular Connector

Straight Pin Orientation (Shielded)

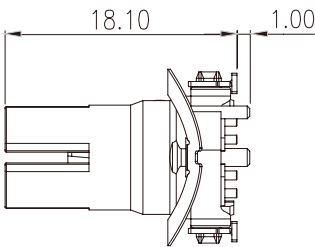
Female



PCB Layout	
Pin out	Technical drawing of the PCB layout for the female connector. The drawing shows the arrangement of the pins on the PCB. Key dimensions are labeled: 5.60 (pin pitch), 2.80 (pin pitch), 1.00 (pin diameter), 1.20 (pin diameter), 10.00 (pin diameter), 2.80 (pin pitch), and 5.60 (pin pitch).
Pin arrangement	Technical drawing of the pin arrangement for the female connector. The drawing shows the arrangement of the pins in an X-code configuration. The pins are labeled 1 through 8.
	8P
	X-code

Straight Pin Orientation (Shielded)

Female



PCB Layout	
Pin out	Technical drawing of the PCB layout for the female connector. The drawing shows the arrangement of the pins on the PCB. Key dimensions are labeled: 8.25 (pin pitch), 4.25 (pin pitch), 4.00 (pin pitch), 1.60 (pin diameter), 14.10 (pin pitch), 9.60 (pin pitch), 3.53 (pin pitch), 5.60 (pin pitch), 2.80 (pin pitch), 4.60 (pin pitch), 5.40 (pin pitch), 1.20 (pin diameter), and 8x1.20 (pin diameter).
Pin arrangement	Technical drawing of the pin arrangement for the female connector. The drawing shows the arrangement of the pins in an X-code configuration. The pins are labeled 1 through 8.
	8P
	X-code

M12 X-Code Two-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	LCP
Operating Temperature	-40°C ~ 125°C	O-ring	NBR
Soldering Method	Reflow Soldering (260°C)	Moisture Sensitivity Level (MSL)	1
		UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	50VAC / 0.5A (8 Pin)		
Rated Impulse Voltage	0.8kV (8 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

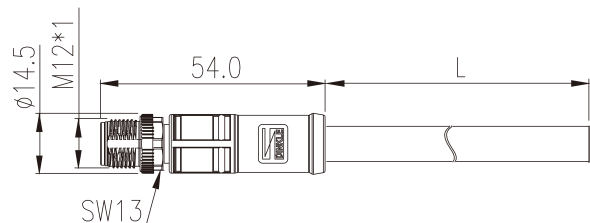
M12 X-Code Two-piece PCB Connector (Shielded)

Coding and contacts	Code	X
	Contacts	8
Rated Voltage / Current		60V/0.5A
Contact Arrangement		Female 
THR Soldering (Shielded)		
Connector Style	Packaging	Part Number
Male	Tray	-
	Tape-on-reel	-
Female 	Tray	282-X8100S-1
	Tape-on-reel	282-X8100S-2
SMT Soldering (Shielded)		
Connector Style	Packaging	Part Number
Male	Tray	-
	Tape-on-reel	-
Female 	Tray	282-X8201S-1
	Tape-on-reel	282-X8201S-2
Metal Housing		
Connector Style	Packaging	Part Number
Male Housing 	M15 x 1	-
Female Housing 	M15 x 1	284-T2220

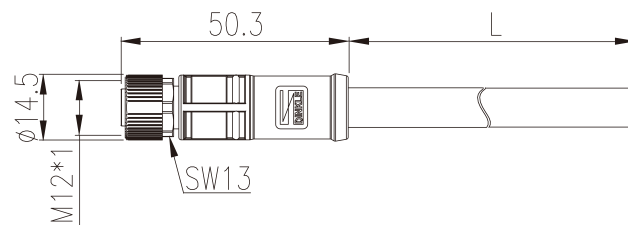
Tray Packaging Quantity: 60 Pcs
Tape-on-reel Packaging Quantity: 100 Pcs

M12 L-Code Molded Circular Connector

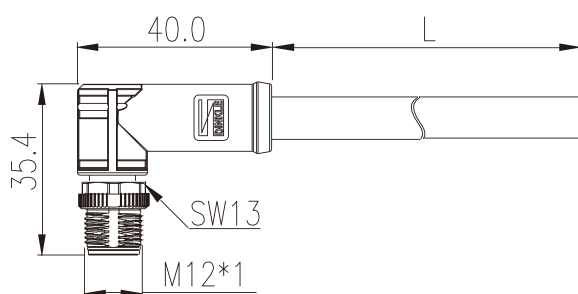
Single-ended straight Male



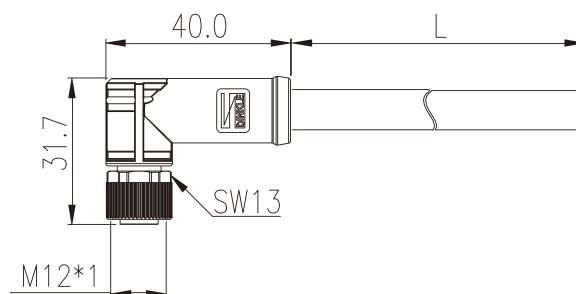
Single-ended straight Female



Single-ended angled Male

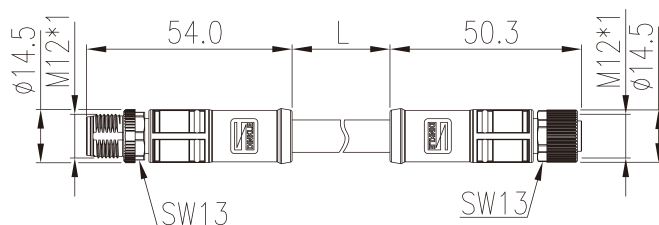


Single-ended angled Female

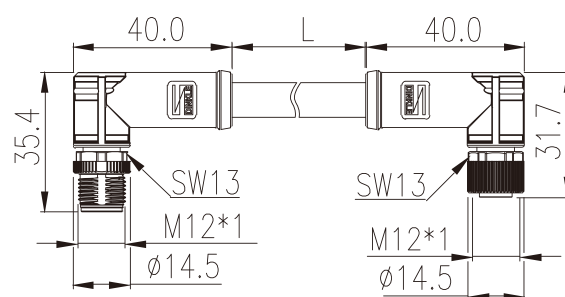


Unit: mm

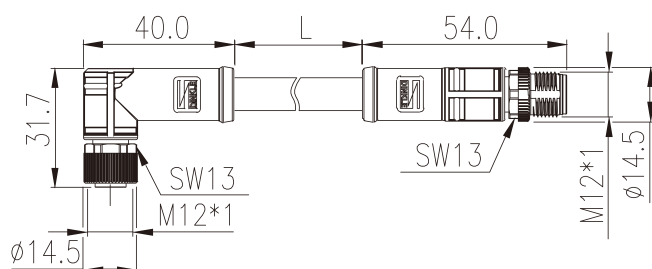
Straight Male + Straight Female



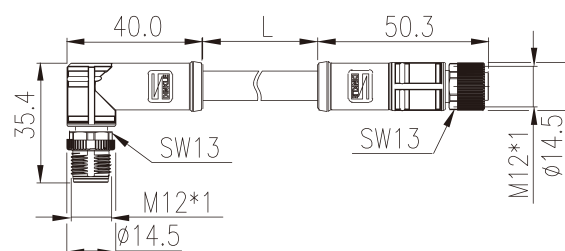
Straight Male + Straight Male



Angled Male + Angled Male



Straight Male + Angled Male



Unit: mm

M12 L-Code Molded Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA / PP
Operating Temperature	-40℃ ~ 80℃ (Fixed Installation)	O-ring	NBR
	-25℃ ~ 80℃ (Flexible Installation)	Moisture Sensitivity Level (MSL)	Zinc Alloy, Nickel-Plated
Fasten torque	0.4 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	63VAC / 16A (4 Pin)	Cable Jacket	PUR, GREY
	63VAC / 16A (5 Pin)	UL AWM Style	UL AWM 20233 (4 Pin)
Rated Impulse Voltage	1.5kV (4 Pin)		UL AWM 20233 (5 Pin)
	1.5kV (5 Pin)	Conductor Cross-section	2.5mm ² / 14AWG (4 Pin)
Insulation Resistance	Min.100MΩ		2.5mm ² / 14AWG (5 Pin)
Overvoltage Category	III	Material Conductor Insulation	PE
Pollution Degree	3	Flame Resistance	FT2
		Dielectric Strength	2.0KV/1min
Standards and Regulations			
Design reference	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2237		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 L-Code Molded Connector (No Shield)

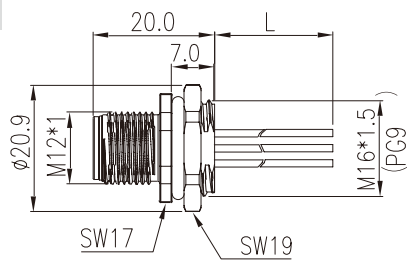
Coding and contacts		Code	L		L	
		Contacts	4		5(4+FE)	
Rated Voltage / Current			63V / 16A		63V / 16A	
Contact Arrangement			Male	Female	Male	Female
						
Connector Style	Cable	Length (m)	Part Number			
Single-ended straight Male 	PUR	2	201-L4103-02S020		201-L5103-02S020	
		5	201-L4103-02S050		201-L5103-02S050	
		10	201-L4103-02S100		201-L5103-02S100	
Single-ended straight Female 	PUR	2	202-L4103-02S020		202-L5103-02S020	
		5	202-L4103-02S050		202-L5103-02S050	
		10	202-L4103-02S100		202-L5103-02S100	
Single-ended angled Male 	PUR	2	203-L4103-02S020		203-L5103-02S020	
		5	203-L4103-02S050		203-L5103-02S050	
		10	203-L4103-02S100		203-L5103-02S100	
Single-ended angled Female 	PUR	2	204-L4103-02S020		204-L5103-02S020	
		5	204-L4103-02S050		204-L5103-02S050	
		10	204-L4103-02S100		204-L5103-02S100	
Straight Male + Straight Female 	PUR	0.6	206-L4103-02SL60		206-L5103-02SL60	
		1.5	206-L4103-02S015		206-L5103-02S015	
		3	206-L4103-02S030		206-L5103-02S030	
Angled Male + Angled Female 	PUR	0.6	209-L4103-02SL60		209-L5103-02SL60	
		1.5	209-L4103-02S015		209-L5103-02S015	
		3	209-L4103-02S030		209-L5103-02S030	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.
Only the L-Code 5P cable is gray; all others are black.

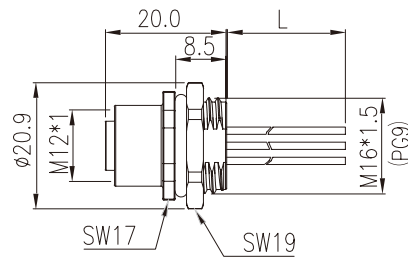
M12 L-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male

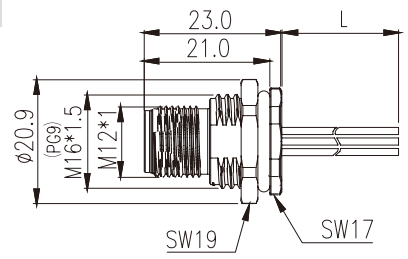


Female

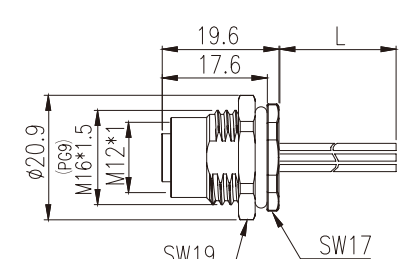


Rear-mounting with 0.5m Wires

Male

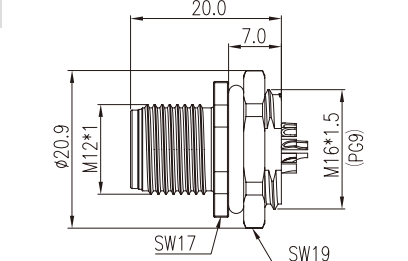


Female

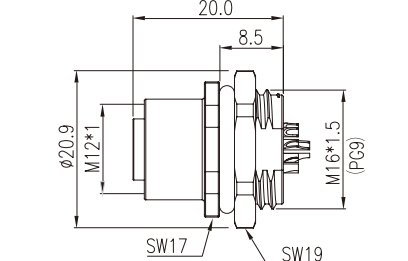


Front-mounting with Solder Cup

Male

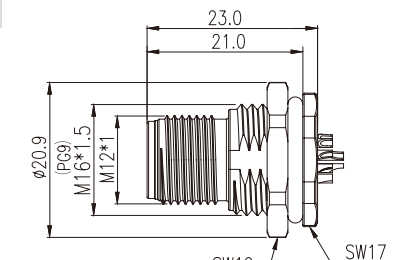


Female

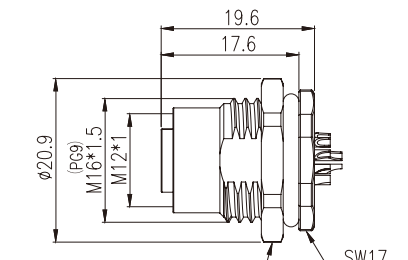


Rear-mounting with Solder Cup

Male



Female



Pin Assignments and Wire Colors

Pin arrangement								
	4P				5P			
Pin out	L code				L code			
	1	Brown			1	Brown		
	2	White			2	White		
	3	Blue			3	Blue		
	4	Black			4	Black		
					FE	Pink		

M12 L-Code Device Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated
Fasten torque	0.4 Nm	O-ring	NBR
Mounting Torque	0.8 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	63VAC / 16A (4 Pin)	Wire Jacket	MPPE
	63VAC / 16A (5 Pin)	UL AWM Style	MPPE : AWM 11027
Rated Impulse Voltage	1.5kV (4 Pin)	Conductor Cross-section	2.5mm ² / 14AWG (4 Pin)
	1.5kV (5 Pin)		2.5mm ² / 14AWG (5 Pin)
Insulation Resistance	Min.100MΩ	Material Conductor Insulation	MPPE
Overvoltage Category	III	Flame Resistance	VW-1
Pollution Degree	3	Dielectric Strength	2.0kV/1min
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2237		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 L-Code Device Connector (No Shield)

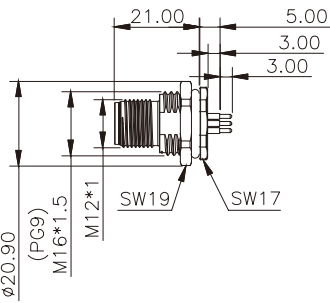
Coding and contacts	Code	L		L	
	Contacts	4		5(4+FE)	
Rated Voltage / Current		63V / 16A		63V / 16A	
Contact Arrangement		Male 	Female 	Male 	Female 
Front-mounting with 0.5m conductor					
Connector Style	Mount Thread	Part Number			
Male 	M16 X 1.5	218-L4100-0MSL50		218-L5100-0MSL50	
	Pg9	218-L4102-0MSL50		218-L5102-0MSL50	
Female 	M16 X 1.5	219-L4100-0MSL50		219-L5100-0MSL50	
	Pg9	219-L4102-0MSL50		219-L5102-0MSL50	
Rear-mounting with 0.5m conductor					
Connector Style	Mount Thread	Part Number			
Male 	M16 X 1.5	220-L4100-0MSL50		220-L5100-0MSL50	
	Pg9	220-L4102-0MSL50		220-L5102-0MSL50	
Female 	M16 X 1.5	221-L4100-0MSL50		221-L5100-0MSL50	
	Pg9	221-L4102-0MSL50		221-L5102-0MSL50	

Wire lengths can be customized to your requirements. Please contact us for details.

M12 L-Code One-piece PCB Circular Connector

Straight Pin Orientation, Rear-mounting (Shielded)

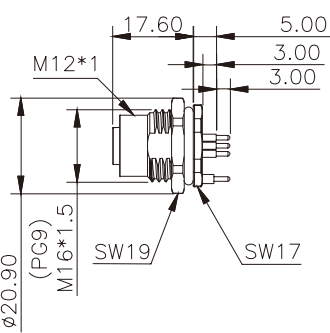
Male



PCB Layout

Pin out		
4P		
L-code		

Female

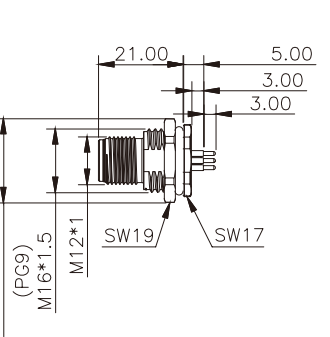


PCB Layout

Pin out		
4P		
L-code		

Straight Pin Orientation, Rear-mounting (No Shield)

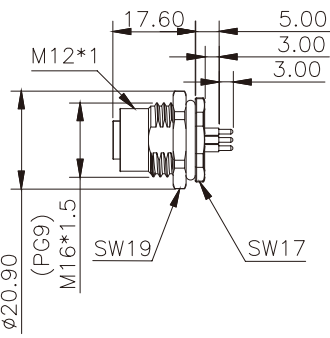
Male



PCB Layout

Pin out		
4P		
5P		
L-code		

Female



PCB Layout

Pin out		
4P		
5P		
L-code		

M12 L-Code One-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40℃ ~ 80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Mounting Torque	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	63VAC / 12A (4 Pin)		
	63VAC / 12A (5 Pin)		
Rated Impulse Voltage	1.5kV (4 Pin)		
	1.5kV (5 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	III		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2237		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

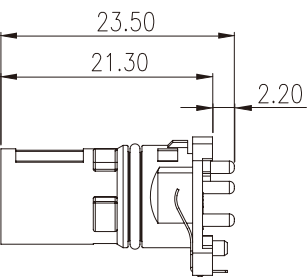
M12 L-Code One-piece PCB Connector (Shielded / No Shield)

Coding and contacts	Code	L		L	
	Contacts	4		5	
Rated Voltage / Current		63V / 16A		63V / 16A	
Contact Arrangement		Male	Female	Male	Female
					
Rear-mounting, Straight, Shielded					
Connector Style	Mount Thread	Part Number			
 Male 	M16 X 1.5	276-L4100-6		276-L5100-6	
	Pg9	276-L4102-6		276-L5102-6	
 Female 	M16 X 1.5	277-L4100-6		277-L5100-6	
	Pg9	277-L4102-6		277-L5102-6	
Rear-mounting, Straight, No Shield					
Connector Style	Mount Thread	Part Number			
 Male	M16 X 1.5	226-L4100-6		226-L5100-6	
	Pg9	226-L4102-6		226-L5102-6	
 Female	M16 X 1.5	227-L4100-6		227-L5100-6	
	Pg9	227-L4102-6		227-L5102-6	

M12 L-Code Two-piece PCB Circular Connector

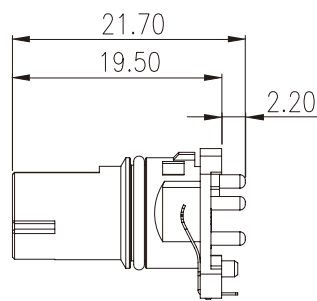
Straight Pin Orientation (Shielded)

Male



PCB Layout		
Pin out		
	4P	5P
A-code		

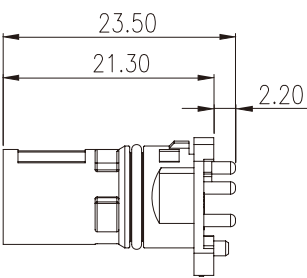
Female



PCB Layout		
Pin out		
	4P	5P
A-code		

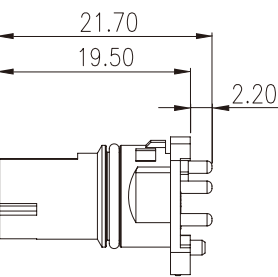
Straight Pin Orientation (No Shield)

Male



PCB Layout		
Pin out		
	4P	5P
A-code		

Female



PCB Layout		
Pin out		
	4P	5P
A-code		

M12 L-Code Two-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	LCP
Operating Temperature	-40°C ~ 125°C	O-ring	SILICONE
Soldering Method	Reflow Soldering (260°C)	Moisture Sensitivity Level (MSL)	1
		UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	63VAC / 16A (4 Pin)		
	63VAC / 16A (5 Pin)		
Rated Impulse Voltage	1.5kV (4 Pin)		
	1.5kV (5 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	III		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

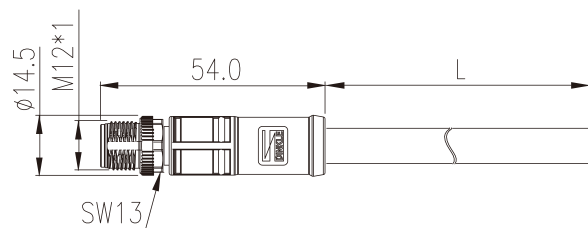
M12 L-Code Two-piece PCB Connector (Shielded / No Shield)

Coding and contacts	Code	L		L	
	Contacts	4		5	
Rated Voltage / Current		250V / 4A		250V / 4A	
Contact Arrangement		Male	Female	Male	Female
					
THR Soldering (Shielded)					
Connector Style	Packaging	Part Number			
Male 	Tray	281-L4T01S-1		281-L5T01S-1	
	Tape-on-reel	281-L4T01S-2		281-L5T01S-2	
Female 	Tray	282-L4T01S-1		282-L5T01S-1	
	Tape-on-reel	282-L4T01S-2		282-L5T01S-2	
THR Soldering (No Shield)					
Connector Style	Packaging	Part Number			
Male 	Tray	281-L4T01U-1		281-L5T01U-1	
	Tape-on-reel	281-L4T01U-2		281-L5T01U-2	
Female 	Tray	282-L4T01U-1		282-L5T01U-1	
	Tape-on-reel	282-L4T01U-2		282-L5T01U-2	
Metal Housing					
Connector Style	Mount Thread	Part Number			
Male Housing 	M15 x 1	283-P1100			
Female Housing 	M15 x 1	284-P1100			

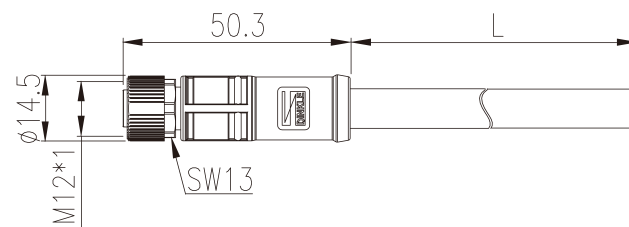
Tray Packaging Quantity: 60 Pcs
Tape-on-reel Packaging Quantity: 100 Pcs

M12 K-Code Molded Circular Connector

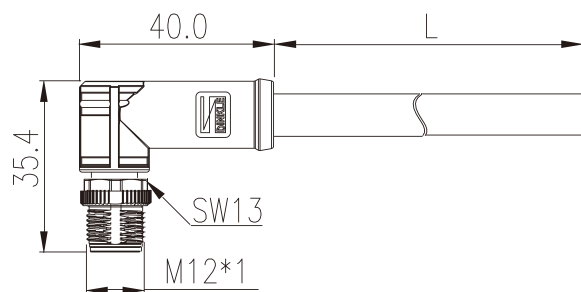
Single-ended straight Male



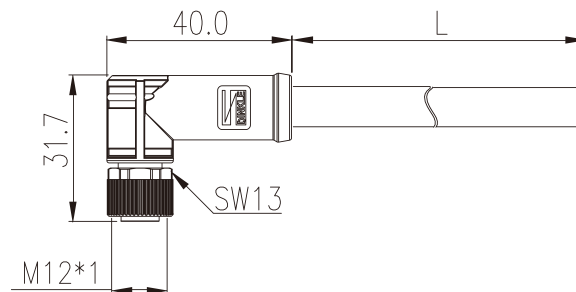
Single-ended straight Female



Single-ended angled Male

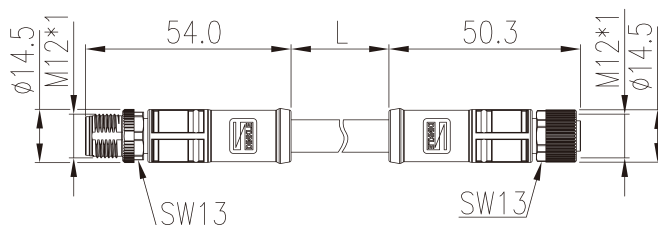


Single-ended angled Female

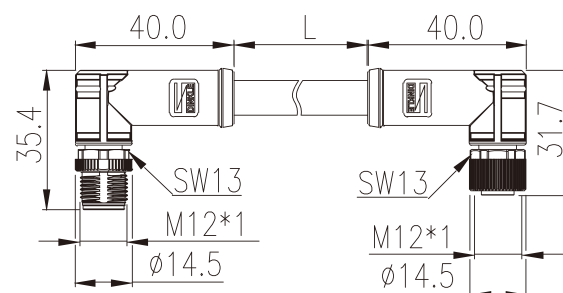


Unit: mm

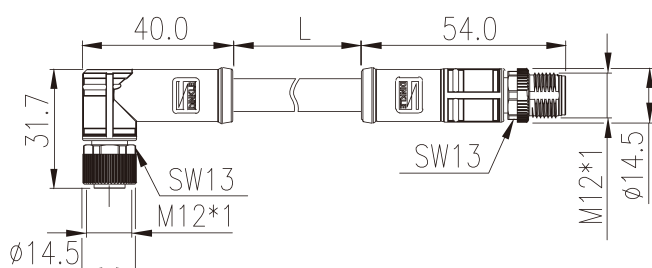
Straight Male + Straight Female



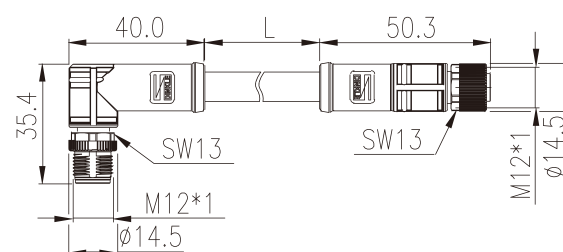
Straight Male + Straight Male



Angled Male + Angled Male



Straight Male + Angled Male



Unit: mm

M12 K-Code Molded Connector

Mechanical Properties		Material Properties		
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated	
Degree of Protection	IP67	Contact Carrier / Overmolding	PA / PP	
Operating Temperature	-40°C ~80°C (Fixed Installation)	O-ring	NBR	
	-25°C ~80°C (Flexible Installation)	Cable gland material	Zinc Alloy, Nickel-Plated	
Fasten torque	0.4Nm	UL 94 Flammability Rating	V0	
Electrical Properties		Cable Information		
Rated Voltage / Rated Current	630VAC / 16A (5 Pin)	Cable Jacket	No Shield	PUR, BLACK
Rated Impulse Voltage	4kV (5 Pin)		Shield	PUR, ORANGE
Insulation Resistance	Min.100MΩ	UL AWM Style	No Shield	UL AWM 21223
Overvoltage Category	II		Shield	UL AWM 21223
Pollution Degree	3	Conductor Cross-section	1.5mm ² / 14AWG (5 Pin)	
		Material Conductor Insulation	PP	
		Flame Resistance	VW-1 / FT1	
		Dielectric Strength	3kV/1min	
Standards and Regulations				
Design reference	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking			
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods			
	IEC 60529: Degree of protection provided by enclosures (IP Code)			
Certification reference	UL 2237			
Notice				
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.				

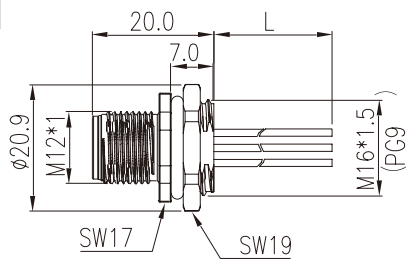
M12 K-Code Molded Connector (Shielded / No Shield)

Coding and contacts		Code	K	
		Contacts	5(4+PE)	
Rated Voltage / Current			690V / 8A	
Contact Arrangement			Male	Female
				
Shield				
Connector Style	Cable	Length (m)	Part Number	
Single-ended straight Male 	PUR	2	251-K5103-06S020	
		5	251-K5103-06S050	
		10	251-K5103-06S100	
Single-ended straight Female 	PUR	2	252-K5103-06S020	
		5	252-K5103-06S050	
		10	252-K5103-06S100	
No Shield				
Connector Style	Cable	Length (m)	Part Number	
Single-ended straight Male 	PUR	2	201-K5103-02S020	
		5	201-K5103-02S050	
		10	201-K5103-02S100	
Single-ended straight Female 	PUR	2	202-K5103-02S020	
		5	202-K5103-02S050	
		10	202-K5103-02S100	
Single-ended angled Male 	PUR	2	203-K5103-02S020	
		5	203-K5103-02S050	
		10	203-K5103-02S100	
Single-ended angled Female 	PUR	2	204-K5103-02S020	
		5	204-K5103-02S050	
		10	204-K5103-02S100	

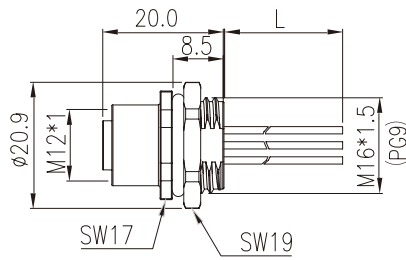
M12 K-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male

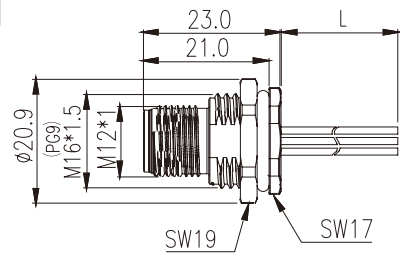


Female

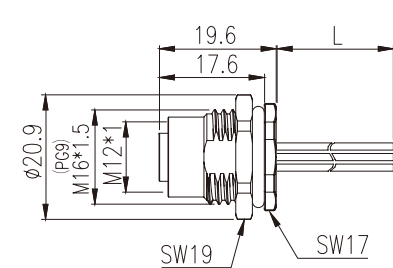


Rear-mounting with 0.5m Wires

Male



Female



Pin Assignments and Wire Colors

Pin arrangement		
		5P
		K code
Pin out	1	Black
	2	Black
	3	Black
	4	Black
	FE	Yellow / Green

M12 K-Code Device Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40℃ ~80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated
Fasten torque	0.4 Nm	O-ring	NBR
Mounting Torque	0.8 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	630VAC / 16A (5 Pin)	Wire Jacket	XLPE
Rated Impulse Voltage	4kV (5 Pin)	UL AWM Style	UL AWM 3994
Insulation Resistance	Min.100MΩ	Conductor Cross-section	1.5mm ² / 14AWG (5 Pin)
Overvoltage Category	III	Material Conductor Insulation	XLPE
Pollution Degree	3	Flame Resistance	FT2
		Dielectric Strength	6kV/1min
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2237		
Notice			
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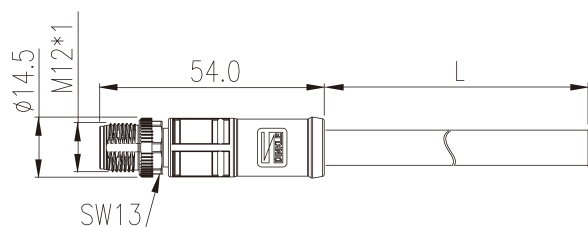
M12 K-Code Device Connector (No Shield)

Coding and contacts	Code	K	
	Contacts	5(4+PE)	
Rated Voltage / Current		690V / 8A	
Contact Arrangement		Male	Female
			
Front-mounting with 0.5m conductor			
Connector Style	Mount Thread	Part Number	
Front-mounting Male 	M16x1.5	218-K5100-0LS050	
Front-mounting Female 	M16x1.5	219-K5100-0LS050	
Rear-mounting with 0.5m conductor			
Connector Style	Mount Thread	Part Number	
Front-mounting Male 	M16x1.5	220-K5100-0LS050	
Front-mounting Female 	M16x1.5	221-K5100-0LS050	

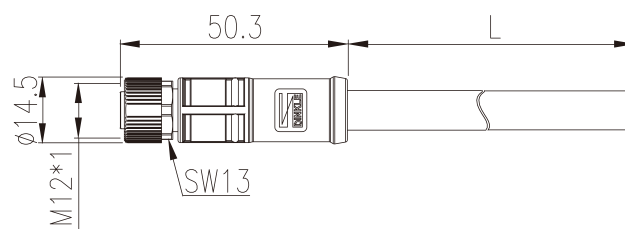
Wire lengths can be customized to your requirements. Please contact us for details.

M12 M-Code Molded Circular Connector

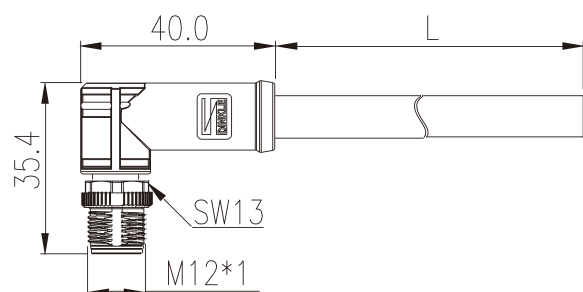
Single-ended straight Male



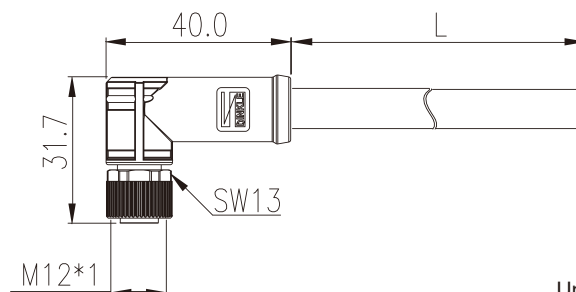
Single-ended straight Female



Single-ended angled Male

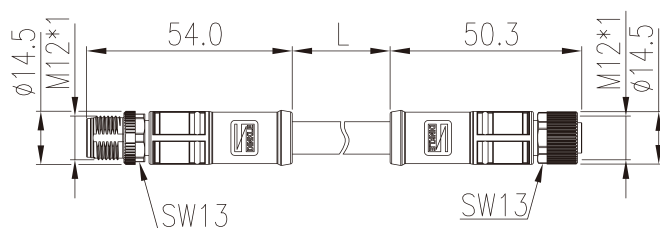


Single-ended angled Female

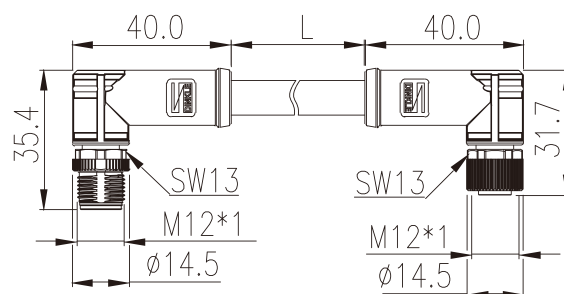


Unit: mm

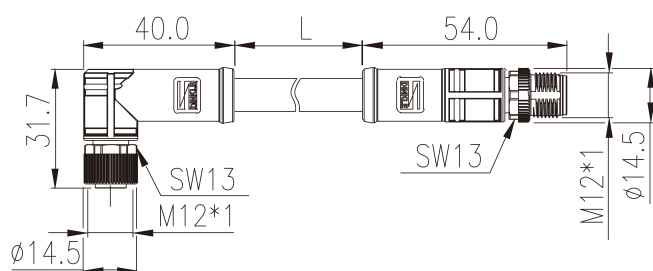
Straight Male + Straight Female



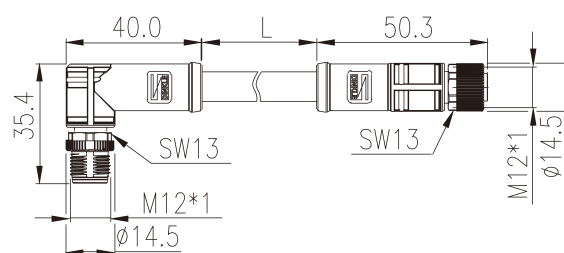
Straight Male + Straight Male



Angled Male + Angled Male



Straight Male + Angled Male



Unit: mm

M12 M-Code Molded Connector

Mechanical Properties		Material Properties		
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated	
Degree of Protection	IP67	Contact Carrier / Overmolding	PA / PP	
Operating Temperature	-40℃ ~ 80℃ (Fixed Installation)	O-ring	NBR	
	-25℃ ~ 80℃ (Flexible Installation)	Cable gland material	Zinc Alloy, Nickel-Plated	
Fasten torque	0.4 Nm	UL 94 Flammability Rating	V0	
Electrical Properties		Cable Information		
Rated Voltage / Rated Current	630VAC / 8A (6 Pin)	Cable Jacket	No Shield	PUR, BLACK
Rated Impulse Voltage	6kV(6 Pin)		Shield	PUR, ORANGE
Insulation Resistance	Min.100MΩ	UL AWM Style	No Shield	UL AWM 21223
Overvoltage Category	III		Shield	UL AWM 21223
Pollution Degree	3	Conductor Cross-section	1.5mm ² / 16AWG(6 Pin)	
		Material Conductor Insulation	PP	
		Flame Resistance	VW-1/FT1	
		Dielectric Strength	3kV/min	
Standards and Regulations				
Design reference	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking			
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods			
	IEC 60529: Degree of protection provided by enclosures (IP Code)			
Certification reference	UL 2237			
Notice				
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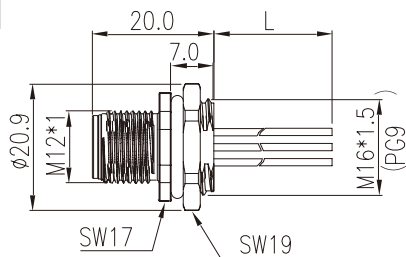
M12 M-Code Molded Connector (Shielded / No Shield)

Coding and contacts		Code	M	
		Contacts	6(5+PE)	
Rated Voltage / Current			690V / 8A	
Contact Arrangement			Male	Female
				
Shield				
Connector Style	Cable	Length (m)	Part Number	
Single-ended straight Male 	PUR	2	251-M6103-06S020	
		5	251-M6103-06S050	
		10	251-M6103-06S100	
Single-ended straight Female 	PUR	2	252-M6103-06S020	
		5	252-M6103-06S050	
		10	252-M6103-06S100	
No Shield				
Connector Style	Cable	Length (m)	Part Number	
Single-ended straight Male 	PUR	2	201-M6103-02S020	
		5	201-M6103-02S050	
		10	201-M6103-02S100	
Single-ended straight Female 	PUR	2	202-M6103-02S020	
		5	202-M6103-02S050	
		10	202-M6103-02S100	
Single-ended angled Male 	PUR	2	203-M6103-02S020	
		5	203-M6103-02S050	
		10	203-M6103-02S100	
Single-ended angled Female 	PUR	2	204-M6103-02S020	
		5	204-M6103-02S050	
		10	204-M6103-02S100	

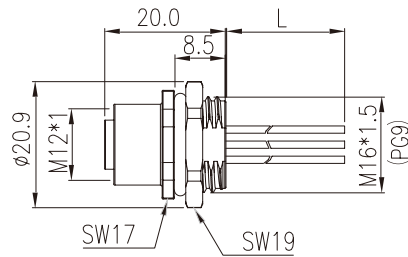
M12 M-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male

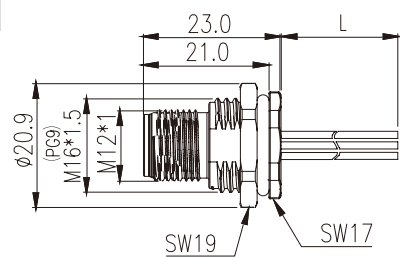


Female

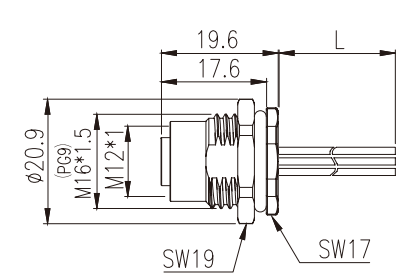


Rear-mounting with 0.5m Wires

Male



Female



Pin Assignments and Wire Colors

Pin out		Pin arrangement	
			
		6P	
		M code	
Pin out	1	Black	
	2	Black	
	3	Black	
	4	Black	
	FE	Yellow Green	

M12 M-Code Device Connector

Mechanical Properties		Cable Information	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP67	Contact Carrier	PA
Operating Temperature	-40℃ ~80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated
Fasten torque	0.4Nm	O-ring	NBR
Mounting Torque	0.8Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	630VAC / 8A (6 Pin)	Wire Jacket	MPPE
Rated Impulse Voltage	6kV(6 Pin)	UL AWM Style	UL 11029
Insulation Resistance	Min.100MΩ	Conductor Cross-section	1.5mm ² / 16AWG(6 Pin)
Overvoltage Category	III	Material Conductor Insulation	MPPE
Pollution Degree	3	Flame Resistance	VW-1 / FT1
		Dielectric Strength	3kV/1min
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2237		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 M-Code Device Connector (No Shield)

Coding and contacts	Code	M	
	Contacts	6(5+PE)	
Rated Voltage / Current		690V / 8A	
Contact Arrangement		Male 	Female 
Front-mounting with 0.5m conductor			
Connector Style	Cable	Part Number	
Front-mounting Male 	M16x1.5	218-M6100-0MSL50	
Front-mounting Female 	M16x1.5	219-M6100-0MSL50	
Rear-mounting with 0.5m conductor			
Connector Style	Cable	Part Number	
Front-mounting Male 	M16x1.5	220-M6100-0MSL50	
Front-mounting Female 	M16x1.5	221-M6100-0MSL50	

Wire lengths can be customized to your requirements. Please contact us for details.

M23 Circular Connector

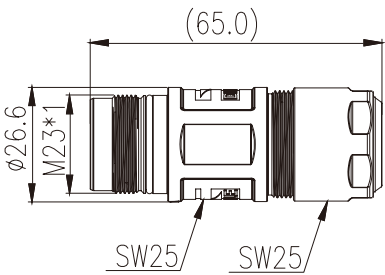
M23 circular connectors provide versatile industrial connectivity solutions. They are used primarily to integrate electric drives and servo motors into industrial automation equipment and are equally suited to signal- and power-transmission applications. Their high current- and voltage-carrying capacity makes them suitable for harsh environments and complex applications.

DINKLE also offers configurations with 6, 12, 17, or 19 contacts to meet a wide range of power and signal application requirements.

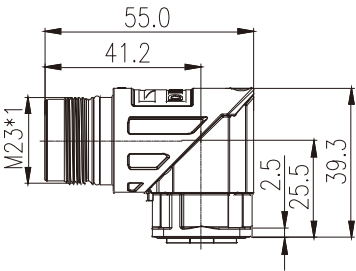


M23 N-Code Circular Connector

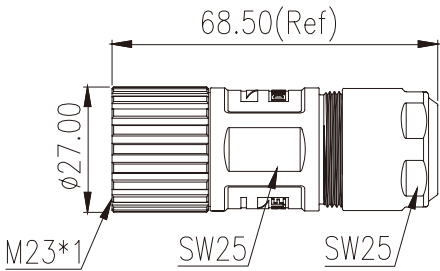
Straight Male for Power



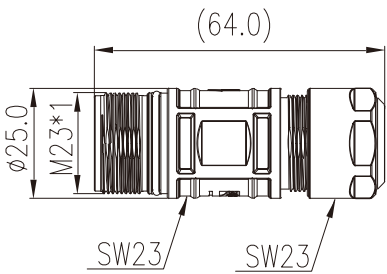
Angled Male for Power



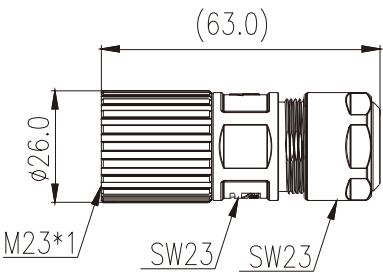
Straight Female for Power



Straight Male for Signal



Straight Female for Signal



Unit: mm

M23 N-Code Circular Connector

Mechanical Properties		Cable Information		
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated	
Degree of Protection	IP67	Contact Carrier	PA	
Operating Temperature	-40℃ ~ 125℃	Housing	Zinc Alloy	
Wiring Method	Crimping	O-ring	NBR	
		UL 94 Flammability Rating	V0	
Electrical Properties		Cable Information		
Rated Voltage / Rated Current	630VAC / 30A(6 Pin)	Wire Size	Power	0.25mm ² ~4.0mm ²
	200VAC / 8A (12 Pin)		Signal	0.08mm ² ~1.0mm ²
	200VAC / 8A (17 Pin)	Applicable Cable Diameter	Power	5.5mm ² ~17.0mm ²
	48VAC (19 Pin) / 8A(φ1.0mm ²) & 10A(φ1.5mm ²)		Signal	3.0mm ² ~14.0mm ²
	78VDC (19 Pin) / 8A(φ1.0mm ²) & 10A(φ1.5mm ²)			
Rated Impulse Voltage	6kV(6 Pin)			
	1.5kV(12, 17, 19 Pin)			
Insulation Resistance	Min.100MΩ			
Overvoltage Category	III			
Pollution Degree	3			
Standards and Regulations				
Certification reference	UL1977 / UL2238 (Signal Circular Connector)			
Notice				
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.				

M23 N-Code Circular Connector for Power

Coding and contacts	Code	N	
	Contacts	6(5+PE)	
Rated Voltage / Current		630V/30A	
Contact Arrangement		Male	Female
			
Cable End			
Connector Style	Contact	Part Number	
Straight Male (External Thread) 	Machined Crimp Male Contact	401-P0061	
Straight Male (External Thread) 	Machined Crimp Female Contact	402-P0062	
Device Side			
Connector Style	Contact	Part Number	
Device Side 	Machined Crimp Male Contact	426-P0061	

Crimp Contacts

Contact Diameter Ø 2 mm	Crimp Wire Size (mm²)	Part Number	
		Machined Male Contact	Machined Female Contact
	0.25 - 1.0	0304-0304	0304-1304
	1.5 - 2.5	0304-0305	0304-1305
	2.5 - 4	0304-0306	0304-1306

M23 N-Code Circular Connector for Signal

Coding and contacts	Code	N		N		N	
	Contacts	12		17		19	
Rated Voltage / Current		200V/8A		200V/8A		78V/10A	
Contact Arrangement		Male	Female	Male	Female	Male	Female
							
Cable Side							
Cable End	Contact	Part Number					
Straight Male (External Thread) 	Machined Solder Male Contact	401-S0123		401-S0173		401-S0193	
	Machined Solder Female Contact	401-S0124		401-S0174		401-S0194	
Straight Female (Internal Thread) 	Machined Solder Male Contact	402-S0123		402-S0173		402-S0193	
	Machined Solder Female Contact	402-S0124		402-S0174		402-S0194	

Crimp contacts are available in different sizes for different crimp wire ranges and may be purchased separately.

7/8" Circular Connector

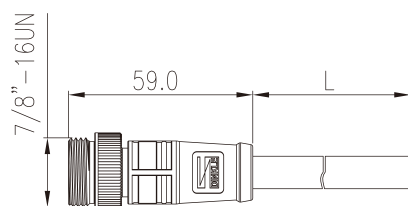
DINKLE's 7/8" circular connector series is designed for power delivery in industrial automation fieldbus networks. Available with 2 to 6 contacts, it supports up to 600V/13A and is commonly used to power industrial communication equipment. Typical applications include 5-contact versions for PROFIBUS / PROFINET and 4-contact versions for DeviceNet. These connectors maximize power density in limited space and provide reliable transmission and power for components and equipment in factory and warehouse automation systems.

DINKLE's molded circular connectors simplify fieldbus installation, reduce field-wiring errors, and help ensure correct bus-component connections and reliable communication. Device circular connectors can be secured to the surface of equipment or an enclosure with a nut; when mated, they provide IP68 protection and a high level of environmental protection. With their integrated design and high degree of protection, one-piece PCB circular connectors are a preferred choice for industrial connectivity applications.

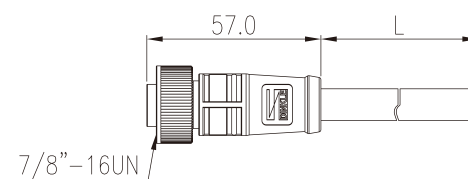


7/8" A-Code Molded Circular Connector

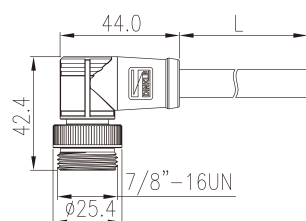
Single-ended straight Male



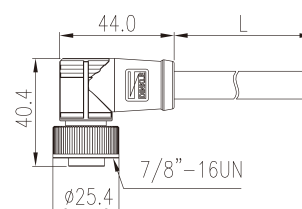
Single-ended straight Female



Single-ended angled Male



Single-ended angled Female



Unit: mm

7/8" A-Code Molded Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP68	Contact Carrier / Overmolding	PVC / PVC
Operating Temperature	-40°C ~ 105°C (Fixed Installation)	O-ring	NBR
	-30°C ~ 105°C (Flexible Installation)	Cable gland material	Die-cast Zinc Alloy, Nickel-Plated
Fasten torque	1.12 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	600VAC / 13A (≤3 Pin)	Cable Jacket	PVC, Yellow
	600VAC / 10A (4 Pin)	UL AWM Style	No Shield PVC : STOOW
	600VAC / 8A (5 Pin)	Conductor Cross-section	16AWG (≤6 Pin)
	600VAC / 8A (6 Pin)	Material Conductor Insulation	PVC
Rated Impulse Voltage	2.5kV	Flame Resistance	VW-1
Insulation Resistance	Min.100MΩ	Dielectric Strength	NA
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

7/8" A-Code Molded Connector (No Shield)

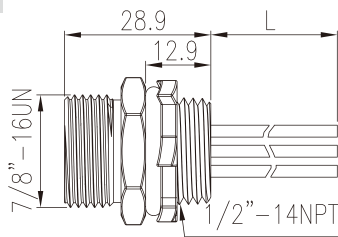
Coding and contacts		Code	A		A		A		A		A	
		Contacts	2		3		4		5		6	
Rated Voltage / Current			600V / 13A		600V / 13A		600V / 10A		600V / 8A		600V / 8A	
Contact Arrangement			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
												
Connector Style	Cable	Length (m)				Part Number						
	PVC	2m					451-2000-0020	451-3000-0020	451-4000-0020	451-5000-0020	451-6000-0020	
		5m					451-2000-0050	451-3000-0050	451-4000-0050	451-5000-0050	451-6000-0050	
		10m					451-2000-0100	451-3000-0100	451-4000-0100	451-5000-0100	451-6000-0100	
	PVC	2m					452-2000-0020	452-3000-0020	452-4000-0020	452-5000-0020	452-6000-0020	
		5m					452-2000-0050	452-3000-0050	452-4000-0050	452-5000-0050	452-6000-0050	
		10m					452-2000-0100	452-3000-0100	452-4000-0100	452-5000-0100	452-6000-0100	
	PVC	2m					453-2000-0020	453-3000-0020	453-4000-0020	453-5000-0020	453-6000-0020	
		5m					453-2000-0050	453-3000-0050	453-4000-0050	453-5000-0050	453-6000-0050	
		10m					453-2000-0100	453-3000-0100	453-4000-0100	453-5000-0100	453-6000-0100	
	PVC	2m					454-2000-0020	454-3000-0020	454-4000-0020	454-5000-0020	454-6000-0020	
		5m					454-2000-0050	454-3000-0050	454-4000-0050	454-5000-0050	454-6000-0050	
		10m					454-2000-0100	454-3000-0100	454-4000-0100	454-5000-0100	454-6000-0100	
	PVC	0.6m					456-2000-0L60	456-3000-0L60	456-4000-0L60	456-5000-0L60	456-6000-0L60	
		1.5m					456-2000-0015	456-3000-0015	456-4000-0015	456-5000-0015	456-6000-0015	
		3m					456-2000-0030	456-3000-0030	456-4000-0030	456-5000-0030	456-6000-0030	
	PVC	0.6m					459-2000-0L60	459-3000-0L60	459-4000-0L60	459-5000-0L60	459-6000-0L60	
		1.5m					459-2000-0015	459-3000-0015	459-4000-0015	459-5000-0015	459-6000-0015	
		3m					459-2000-0030	459-3000-0030	459-4000-0030	459-5000-0030	459-6000-0030	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

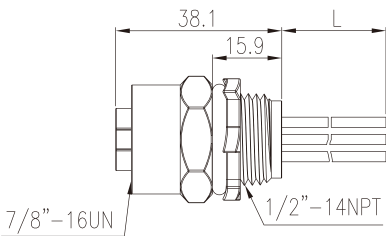
7/8" A-Code Device Circular Connector

Front-mounting with 0.5m Wires

Male



Female



Pin Assignments and Wire Colors

Pin arrangement								
	2P		3P		4P		5P	
	A code							
Pin out	1	White	1	Green	1	Black	1	White
	2	Black	2	Black	2	White	2	Red
			3	White	3	Red	3	Green
					4	Green	4	Orange
							5	Black

7/8" A-Code Device Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP68	Contact Carrier	PVC
Operating Temperature	-40℃ ~ 80℃	Hex Nut / Housing	Brass Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated
Fasten torque	1.12Nm	O-ring	NBR
Mounting Torque	1.5 Nm	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	600VAC / 13A (≤3 Pin)	Wire Jacket	MPPE
	600VAC / 10A (4 Pin)	UL AWM Style	MPPE : UL11029
	600VAC / 8A (5 Pin)	Conductor Cross-section	16AWG (≤6 Pin)
	600VAC / 8A (6 Pin)	Material Conductor Insulation	MPPE
Rated Impulse Voltage	2.5kV	Flame Resistance	VW-1
Insulation Resistance	Min.100MΩ	Dielectric Strength	NA
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Certification reference	UL 2238		

Notice

To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.

7/8" A-Code Device Connector (No Shield)

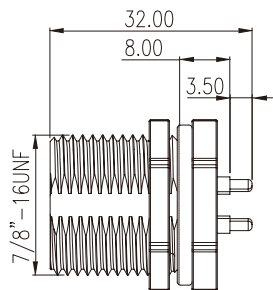
Coding and contacts	Code	A		A		A		A		A	
	Contacts	2		3		4		5		6	
Rated Voltage / Current		600V / 13A		600V / 13A		600V / 10A		600V / 8A		600V / 8A	
Contact Arrangement		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
											
Front-mounting with 0.5m conductor											
Connector Style	Mount Thread				Part Number						
Male 	1/2"-14NPT	468-2006-0L50	468-3006-0L50	468-4006-0L50			468-5006-0L50	468-6006-0L50			
Female 	1/2"-14NPT	469-2006-0L50	469-3006-0L50	469-4006-0L50			469-5006-0L50	469-6006-0L50			

Cable lengths for all products can be customized to your requirements. Please contact us for details.

7/8" A-Code One-piece PCB Circular Connector

Straight Pin Orientation, Rear-mounting (No Shield)

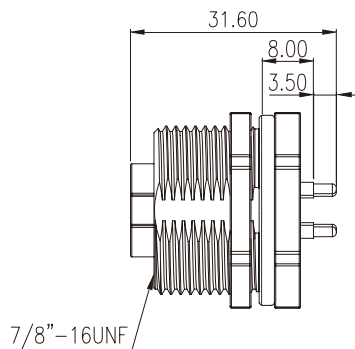
Male



PCB Layout

Pin out		
Pin arrangement	4P	5P
A-code		

Female



PCB Layout

Pin out		
Pin arrangement	4P	5P
A-code		

7/8" A-Code One-piece PCB Connector

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
Degree of Protection	IP68	Contact Carrier	PVC
Operating Temperature	-40℃ ~ 105℃	Hex Nut / Housing	Brass Alloy, Nickel-Plated / Zinc Alloy, Nickel-Plated
Fasten torque	1.12Nm	O-ring	Die-cast Zinc Alloy, Nickel-Plated
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	600VAC / 10A (4 Pin)		
	600VAC / 8A (5 Pin)		
Rated Impulse Voltage	2.5kV (≤6 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Certification reference	UL 2238		

Notice

To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.

7/8" A-Code One-piece PCB Connector (No Shield)

Coding and contacts	Code	A		A	
	Contacts	4		5	
Rated Voltage / Current		600V / 10A		600V / 8A	
Contact Arrangement		Male	Female	Male	Female
					
Rear-mounting, Straight, No Shield					
Connector Style	Mount Thread		Part Number		
Male 	1/2"-14NPT	476-4000-8		476-5000-8	
Female 	1/2"-14NPT	477-4000-8		477-5000-8	

Distribution Box

Effective and flexible cabling



Status indicator

Single / Double slots and 4 / 6 / 8 sockets are available.

M12 connector

Standardized M12 A-Code connector according to IEC 61076-2-101.

Clear marking

Quick and convenient marking with DINKLE TM-R series.

High quality cable

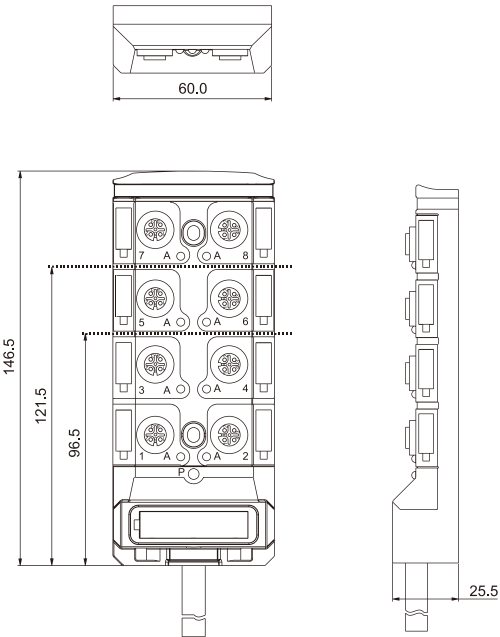
PUR/PVC sheathed cables for various industrial environment.

Related products

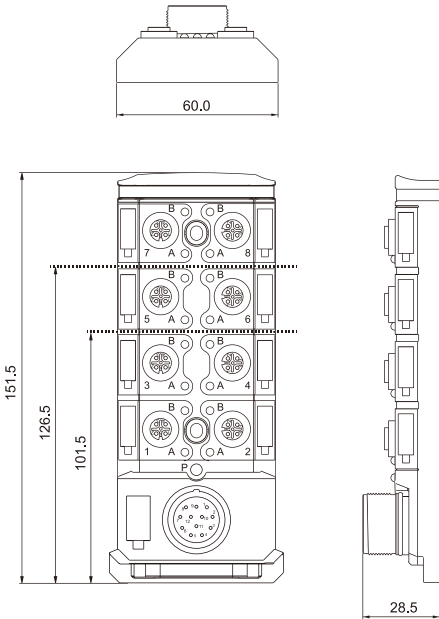
Style	Sheath	Length (m)	Part number	Style	Sheath	Length (m)	Part number
M12 – Single-ended straight male 	PUR	2	201-A5A00-00S020	M12 – Single-ended angled male 	PUR	2	203-A5A00-00S020
		5	201-A5A00-00S050			5	203-A5A00-00S050
		10	201-A5A00-00S100			10	203-A5A00-00S100
	PVC	2	201-A5A00-20S020		PVC	2	203-A5A00-20S020
		5	201-A5A00-20S050			5	203-A5A00-20S050
		10	201-A5A00-20S100			10	203-A5A00-20S100
M12 – Straight male to straight female 	PUR	0.6	206-A5A00-00SL60	M12 – Angled male to angled female 	PUR	0.6	209-A5A00-00SL60
		1.5	206-A5A00-00S015			1.5	209-A5A00-00S015
		3	206-A5A00-00S030			3	209-A5A00-00S030
	PVC	0.6	206-A5A00-20SL60		PVC	0.6	209-A5A00-20SL60
		1.5	206-A5A00-20S015			1.5	209-A5A00-20S015
		3	206-A5A00-20S030			3	209-A5A00-20S030
M12 – Straight male to angled female 	PUR	0.6	212-A5A00-00SL60	M12 – Angled male to straight female 	PUR	0.6	214-A5A00-00SL60
		1.5	212-A5A00-00S015			1.5	214-A5A00-00S015
		3	212-A5A00-00S030			3	214-A5A00-00S030
	PVC	0.6	212-A5A00-20SL60		PVC	0.6	214-A5A00-20SL60
		1.5	212-A5A00-20S015			1.5	214-A5A00-20S015
		3	212-A5A00-20S030			3	214-A5A00-20S030
M12 - Y-splitter with cable 	PUR	0.15	222-A5530-00SL15	M12 - Y-splitter without cable 	Part number		
	PVC	0.15	222-A5530-20SL15		224-2A5100		
M23 – Cable side connector 	Contacts	Suitable Slot	Part number	Torque Screwdriver 	Part number		
	12	Single	402-S0124		DNT15-1001		
	19	Double	402-S0194				
Thermal printer 	Part number			Continuous flat marking label 	Width(mm)		Part number
	TMP-004				7.4		TM-R100
					9.8		TM-R200

Distribution Box

Molded Master Cable

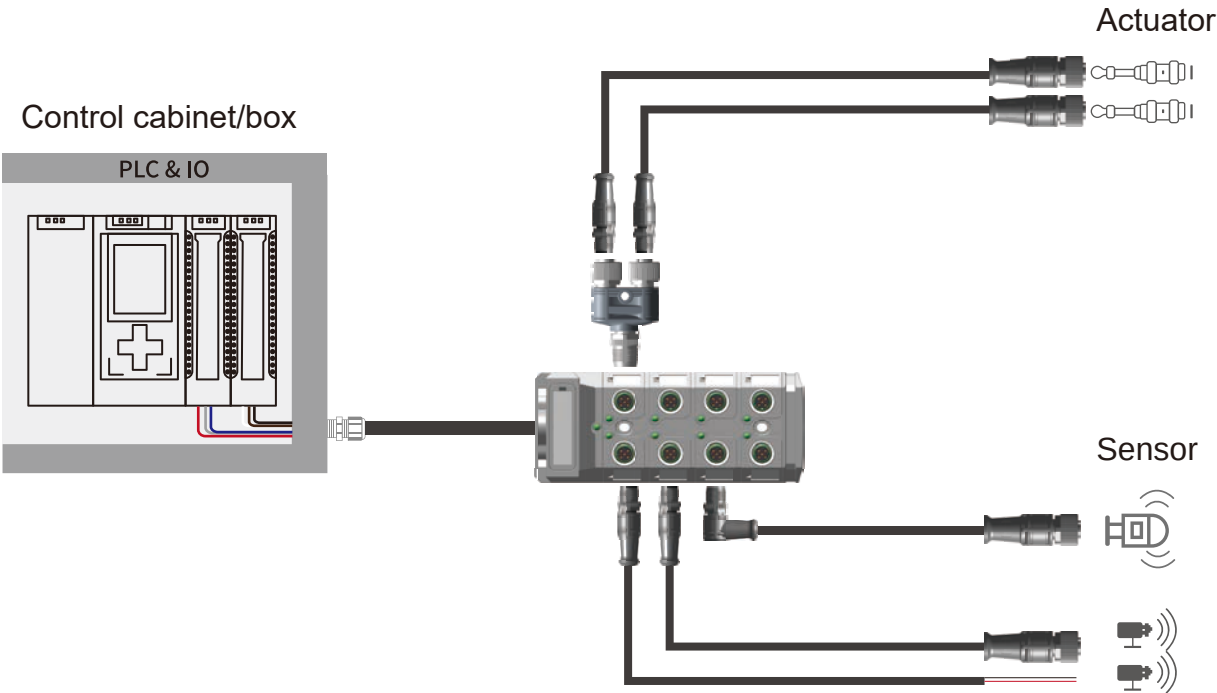


Pluggable M23 Connector



Application

Optimize the wiring of I/O module and PLC in the control cabinet/box. Distribution boxes bundle 4/6/8 sensors or actuators into one master connection. Minimizing the risk of error to wire in the field.



Distribution Box

Molded Master Cable

Ease of the installation process in the field. The cable length can be customized.



Sheath	Slot style	Single			Double		
	Sockets	4	6	8	4	6	8
	Length(m)	Part number					
PUR	5	953-04P-0050	953-06P-0050	953-08P-0050	954-04P-0050	954-06P-0050	954-08P-0050
PUR	10	953-04P-0100	953-06P-0100	953-08P-0100	954-04P-0100	954-06P-0100	954-08P-0100
PVC	5	953-04P-3050	953-06P-3050	953-08P-3050	954-04P-3050	954-06P-3050	954-08P-3050
PVC	10	953-04P-3100	953-06P-3100	953-08P-3100	954-04P-3100	954-06P-3100	954-08P-3100
General parameter							
Socket style		M12 A-Code sockets			Shielded	No	
Operation temp		Power: Green LED, I/O: Yellow LED			Signal type	PNP	
Operation temp		-25 ~ 80℃			IP rating	IP68	
Electric parameter							
Rated voltage		24 VDC			Total rated current		12A
Max. current per path		2A			Max. current per slot		4A
Cable parameter							
Cable cores		7	10	12	11	15	19
Conductor size		4 x 0.34mm ² 3 x 0.75mm ²	4 x 0.34mm ² 6 x 0.75mm ²	4 x 0.34mm ² 8 x 0.75mm ²	8 x 0.5mm ² 3 x 1mm ²	12 x 0.5mm ² 3 x 1mm ²	16 x 0.5mm ² 3 x 1mm ²

Pluggable M23 Connector

Suitable for frequent connection or module replacement.



Socket style	Single			Double		
Status indicator	4	6	8	4	6	8
	Part number					
	951-04P	951-06P	951-08P	952-04P	952-06P	952-08P
General parameter						
Socket style	M12 A-Code sockets			Shielded	No	
Operation temp	Power: Green LED, I/O: Yellow LED			Signal type	PNP	
Operation temp	-25 ~ 80℃			IP rating	IP68	
Electric parameter						
Rated voltage	24 VDC			Total rated current		12A
Max. current per path	2A			Max. current per slot		4A
Contacts of M23 connector	12			Contacts of M23 connector		19

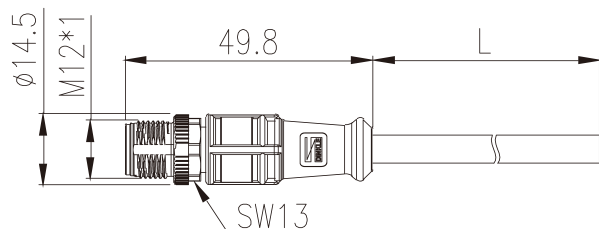
M12 Circular Connector - Industrial Ethernet

Dinkle offers M12 connectors designed for industrial communication protocols (such as CC-Link, DeviceNet/CANopen, Profibus DP, Profinet, Ethernet, EtherCAT5), meeting the demands of sensors and actuators in industrial automation systems and ensuring stable network communication. Its high quality industrial network cables feature excellent shielding and transmission performance, offering IP67 protection to effectively prevent environmental interference. Additionally, Dinkle provides panel mounted circular connectors with IP68 protection and one-piece PCB circular connectors that offer easy installation, reliable performance, and durability, making them suitable for various industrial environments.

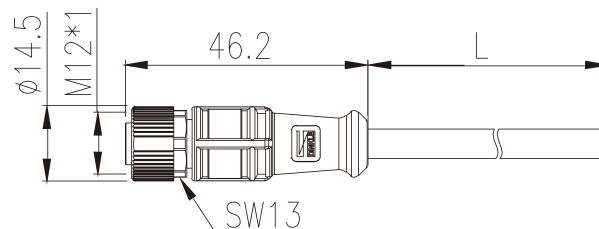
Protocol		Code	Contact	Application	Data transfer rate	Cable profile	Connector Pinout																											
Networks	Ethernet CAT5e	A	8	All industrial environment	Up to 1 Gbps		<table><tr><th>PIN</th><th>Conductor color</th><th>Signal</th></tr><tr><td>1</td><td>WH/BU</td><td>D3-</td></tr><tr><td>2</td><td>WH/BN</td><td>D4+</td></tr><tr><td>3</td><td>BN</td><td>D4-</td></tr><tr><td>4</td><td>OG</td><td>D1-</td></tr><tr><td>5</td><td>WH/GN</td><td>D2+</td></tr><tr><td>6</td><td>WH/OG</td><td>D1+</td></tr><tr><td>7</td><td>BU</td><td>D3+</td></tr><tr><td>8</td><td>GN</td><td>D2-</td></tr></table>	PIN	Conductor color	Signal	1	WH/BU	D3-	2	WH/BN	D4+	3	BN	D4-	4	OG	D1-	5	WH/GN	D2+	6	WH/OG	D1+	7	BU	D3+	8	GN	D2-
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7	BU	D3+																																
8	GN	D2-																																
PROFINET CAT5	D	4	Production in the automotive industry, process automation	100 Mbps		<table><tr><th>PIN</th><th>Conductor color</th><th>Shield</th></tr><tr><td>1</td><td>YE</td><td>TD+</td></tr><tr><td>2</td><td>WH</td><td>RD+</td></tr><tr><td>3</td><td>OG</td><td>TD-</td></tr><tr><td>4</td><td>BU</td><td>RD-</td></tr></table>	PIN	Conductor color	Shield	1	YE	TD+	2	WH	RD+	3	OG	TD-	4	BU	RD-													
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Ethernet CAT5 EtherNet/IP	D	4	Industrial automation and process control environments	Up to 100 Mbps		<table><tr><th>PIN</th><th>Conductor color</th><th>Shield</th></tr><tr><td>1</td><td>WH/OG</td><td>TD+</td></tr><tr><td>2</td><td>WH/GN</td><td>RD+</td></tr><tr><td>3</td><td>OG</td><td>TD-</td></tr><tr><td>4</td><td>GN</td><td>RD-</td></tr></table> Shield on housing	PIN	Conductor color	Shield	1	WH/OG	TD+	2	WH/GN	RD+	3	OG	TD-	4	GN	RD-													
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Ethernet CAT6A	X	8	Camera, CCTV and high speed data acquisition	Up to 10 Gbps		<table><tr><th>PIN</th><th>Conductor color</th><th>Shield</th></tr><tr><td>1</td><td>WH/OG</td><td>D1+</td></tr><tr><td>2</td><td>OG</td><td>D1-</td></tr><tr><td>3</td><td>WH/GN</td><td>D2+</td></tr><tr><td>4</td><td>GN</td><td>D2-</td></tr><tr><td>5</td><td>WH/BN</td><td>D4+</td></tr><tr><td>6</td><td>BN</td><td>D4-</td></tr><tr><td>7</td><td>WH/BU</td><td>D3-</td></tr><tr><td>8</td><td>BU</td><td>D3+</td></tr></table>	PIN	Conductor color	Shield	1	WH/OG	D1+	2	OG	D1-	3	WH/GN	D2+	4	GN	D2-	5	WH/BN	D4+	6	BN	D4-	7	WH/BU	D3-	8	BU	D3+	
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Fieldbuses	CC-Link	A	4	Field of process	Up to 10 Mbps		<table><tr><th>PIN</th><th>Conductor color</th><th>Shield</th></tr><tr><td>1</td><td>Shield</td><td>SLD</td></tr><tr><td>2</td><td>WH</td><td>DS</td></tr><tr><td>3</td><td>YE</td><td>DG</td></tr><tr><td>4</td><td>BU</td><td>DA</td></tr></table>	PIN	Conductor color	Shield	1	Shield	SLD	2	WH	DS	3	YE	DG	4	BU	DA												
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4	BU	DA																																
DeviceNet CANopen	A	5	Automation and device control	DeviceNet: Up to 500kbaud Canopen: 10 kbaud to 1 Mbaud		<table><tr><th>PIN</th><th>Conductor color</th><th>Shield</th></tr><tr><td>1</td><td>Shield</td><td>Drain</td></tr><tr><td>2</td><td>RD</td><td>V+</td></tr><tr><td>3</td><td>BK</td><td>V-</td></tr><tr><td>4</td><td>WH</td><td>CAN_H</td></tr><tr><td>5</td><td>BU</td><td>CAN_L</td></tr></table> Shield on housing	PIN	Conductor color	Shield	1	Shield	Drain	2	RD	V+	3	BK	V-	4	WH	CAN_H	5	BU	CAN_L										
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PROFIBUS DP	B	5	Distributed I/O device	Up to 12 Mbps		<table><tr><th>PIN</th><th>Conductor color</th><th>Shield</th></tr><tr><td>1</td><td>-</td><td></td></tr><tr><td>2</td><td>GN</td><td>A cable</td></tr><tr><td>3</td><td>-</td><td></td></tr><tr><td>4</td><td>RD</td><td>B cable</td></tr><tr><td colspan="2">Flexible filler</td><td></td></tr><tr><td colspan="2">Shield on housing</td><td></td></tr></table>	PIN	Conductor color	Shield	1	-		2	GN	A cable	3	-		4	RD	B cable	Flexible filler			Shield on housing									
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Shield on housing																																		

M12 A-Code Molded Circular Connector - Industrial Ethernet

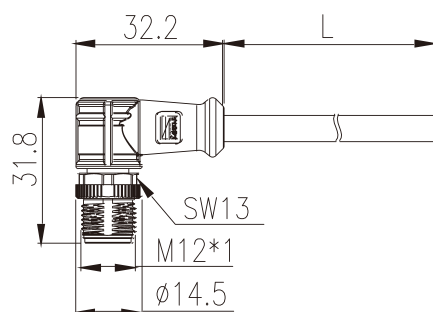
Single-ended straight male



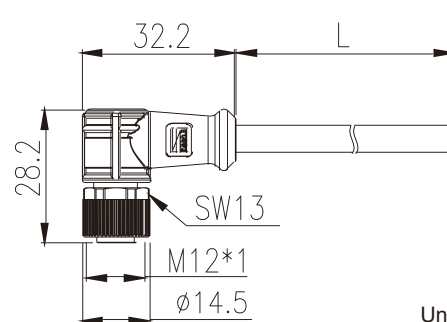
Single-ended straight female



Singled-ended angled male

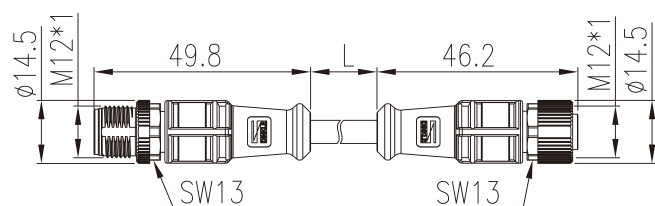


Single-ended angled female

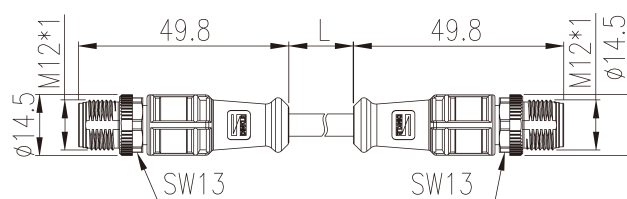


Unit: mm

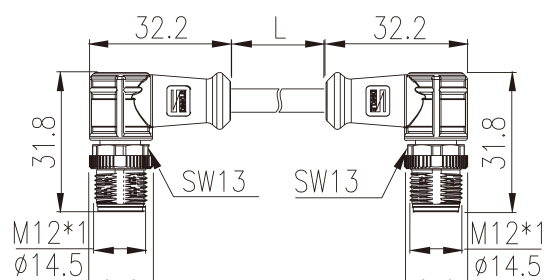
Straight male to straight female



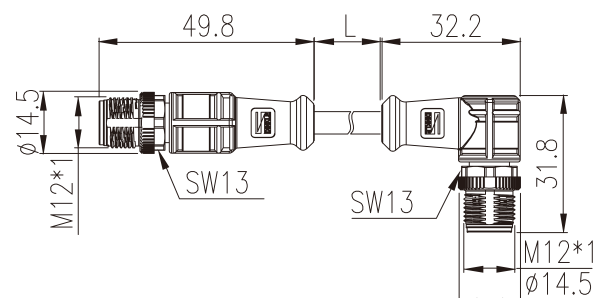
Straight male to straight male



Angled male to angled male

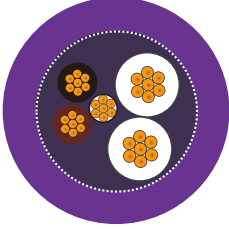
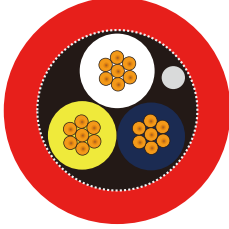


Straight male to angled male



Unit: mm

M12 A-Code Molded Connector - Industrial Ethernet

	Ethernet	DeviceNet / CANopen	CC-Link
Protocols	 Ethernet	 DeviceNet CANopen	 CC-Link
Cross-section			
Communication	Ethernet CAT5e (1 Gbps)	CANopen® DeviceNet™	CC-Link (10 Mbps)
Coding	A	A	A
Number of cores	8	5	4
Outer sheath, material	PUR	PUR	PVC
Outer sheath, color	Blue (RAL 5021)	Violet	Red
Outer sheath, diameter	6.0 ± 0.3 mm	6.6 ± 0.3 mm	7.0 ± 0.3 mm
Ambient temperature (operation)	-40 °C ~ +80 °C	-40 °C ~ +80 °C	-40 °C ~ +80 °C
Shielding	AL-mylar, tinned copper braided shield	AL-mylar, tinned copper braided shield	AL-Foil, tin-plated copper braided shield
Conductor material	Stranded bare copper	Stranded tinned copper	Stranded bare copper
AWG signal line	26AWG	2 x 22AWG + 2 x 24AWG	1 x 22AWG + 3 x 20AWG
Wire colors	White/Blue, Blue, White/Orange, Orange, White/Green, Green, White/Brown, Brown	22AWG: White, Blue 24AWG: Red, Black	White, Blue, Yellow
Core diameter including insulation	0.92 ± 0.05 mm	24AWG: 1.9 ± 0.05 mm 22AWG: 1.4 ± 0.05 mm	2.2 ± 0.1 mm
Conductor resistance	< 148 Ω/km	22AWG: < 57.4 Ω/km 24AWG: < 91.8 Ω/km	37.8 Ω/km(@20 °C)
Standards / Regulations	ISO/IEC 11801	UL 1581	IEC 61158-2
	UL 1581	UL 758	-
	UL 758	-	-
UL AWM style	20963	21329	-
Flammability test	IEC 60332-1, FT2	IEC 60332-1, FT2	IEC 60332-1

M12 A-Code Molded Connector (Shielded) - Networks

Coding and contacts	Code	A	
	Contacts	8	
Rated Voltage / Current		30V / 2A	
Contact Arrangement		Male 	Female 
Sheath		PUR	
Protocol		Ethernet CAT5e (1Gbps)	
Connector Style	Length (m)	Part number	
 Single-ended straight male	2	251-A8A00-0ES020	
	5	251-A8A00-0ES050	
	10	251-A8A00-0ES100	
 Single-ended straight female	2	252-A8A00-0ES020	
	5	252-A8A00-0ES050	
	10	252-A8A00-0ES100	
 Single-ended angled male	2	253-A8A00-0ES020	
	5	253-A8A00-0ES050	
	10	253-A8A00-0ES100	
 Single-ended angled female	2	254-A8A00-0ES020	
	5	254-A8A00-0ES050	
	10	254-A8A00-0ES100	
 Straight male to straight female	0.6	256-A8A00-0ESL60	
	1.5	256-A8A00-0ES015	
	3	256-A8A00-0ES030	
 Straight male to straight male	0.6	257-A8A00-0ESL60	
	1.5	257-A8A00-0ES015	
	3	257-A8A00-0ES030	
Power over Ethernet (PoE)			
 Straight male to straight female	25	256-A8000-0EP250	
 Straight male to straight male	25	257-A8000-0EP250	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 A-Code Molded Connector (Shielded) - Fieldbuses

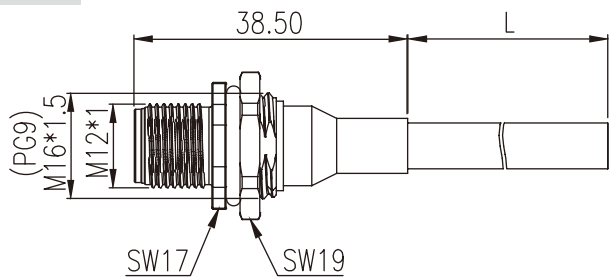
Coding and contacts		Code	A		A	
		Contacts	4		5	
Rated Voltage / Current			250V / 4A		60V / 4A	
Contact Arrangement			Male	Female	Male	Female
						
Sheath			PVC		PUR	
Protocol			CC-Link		DeviceNet CANopen	
Connector Style		Length (m)	Part number			
Single-ended straight male connector 	2	251-A4000-2CS020		251-A5000-0DS020		
	5	251-A4000-2CS050		251-A5000-0DS050		
	10	251-A4000-2CS100		251-A5000-0DS100		
Single-ended straight female connector 	2	252-A4000-2CS020		252-A5000-0DS020		
	5	252-A4000-2CS050		252-A5000-0DS050		
	10	252-A4000-2CS100		252-A5000-0DS100		
Single-ended angled male connector 	2	253-A4000-2CS020		253-A5000-0DS020		
	5	253-A4000-2CS050		253-A5000-0DS050		
	10	253-A4000-2CS100		253-A5000-0DS100		
Single-ended angled female connector 	2	254-A4000-2CS020		254-A5000-0DS020		
	5	254-A4000-2CS050		254-A5000-0DS050		
	10	254-A4000-2CS100		254-A5000-0DS100		
Straight male to straight female 	0.6	256-A4000-2CSL60		256-A5000-0DSL60		
	1.5	256-A4000-2CS015		256-A5000-0DS015		
	3	256-A4000-2CS030		256-A5000-0DS030		
Angled male to angled female 	0.6	259-A4000-2CSL60		259-A5000-0DSL60		
	1.5	259-A4000-2CS015		259-A5000-0DS015		
	3	259-A4000-2CS030		259-A5000-0DS030		

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

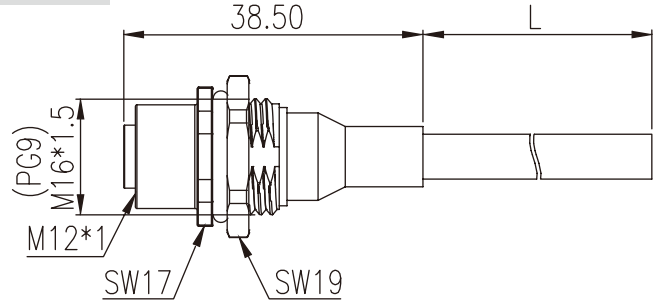
M12 A-Code Device Circular Connector - Industrial Ethernet

Front-mounting with 2m PUR Cable

Male

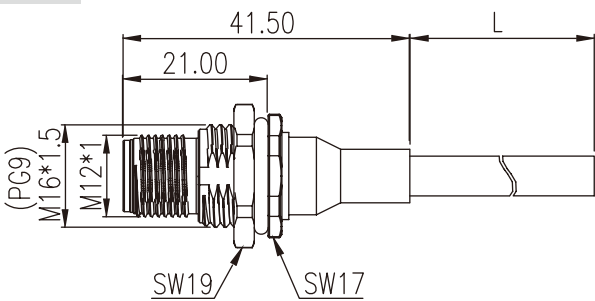


Female

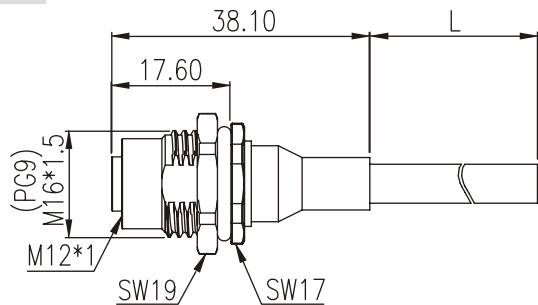


Rear-mounting with 2m PUR Cable

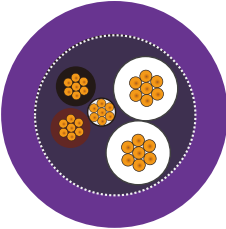
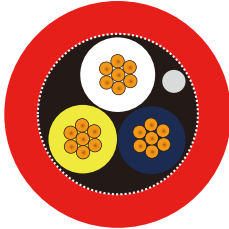
Male



Female



M12 A-Code Device Connector - Industrial Ethernet

Protocols	Ethernet	DeviceNet / CANopen	CC-Link
	 Ethernet	 DeviceNet CANopen	 CC-Link
Cross-section			
Communication	Ethernet CAT5e (1 Gbps)	CANopen® DeviceNet™	CC-Link (10 Mbps)
Coding	A	A	A
Number of cores	8	5	4
Outer sheath, material	PUR	PUR	PVC
Outer sheath, color	Blue (RAL 5021)	Violet	Red
Outer sheath, diameter	6.0 ± 0.3 mm	6.6 ± 0.3 mm	7.0 ± 0.3 mm
Ambient temperature (operation)	-40 °C ~ +80 °C	-40 °C ~ +80 °C	-40 °C ~ +80 °C
Shielding	AL-mylar, tinned copper braided shield	AL-mylar, tinned copper braided shield	AL-Foil, tin-plated copper braided shield
Conductor material	Stranded bare copper	Stranded tinned copper	Stranded bare copper
AWG signal line	26AWG	2 x 22AWG + 2 x 24AWG	1 x 22AWG + 3 x 20AWG
Wire colors	White / Blue, Blue, White / Orange, Orange, White / Green, Green, White / Brown, Brown	22AWG: White, Blue 24AWG: Red, Black	White, Blue, Yellow
Core diameter including insulation	0.92 ± 0.05 mm	24AWG: 1.9 ± 0.05 mm 22AWG: 1.4 ± 0.05 mm	2.2 ± 0.1 mm
Conductor resistance	< 148 Ω/km	22AWG: < 57.4 Ω/km 24AWG: < 91.8 Ω/km	37.8 Ω/km(@20 °C)
Standards / Regulations	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101
	IEC 60512	IEC 60512	IEC 60512
	IEC 60529	IEC 60529	IEC 60529
UL AWM style	UL 2238	UL 2238	UL 2238
Flammability test	V0	V0	V0

M12 A-Code Device Connector (Shielded) - Networks

Coding and contacts	Code	A	
	Contacts	8	
Rated Voltage / Current		30V / 2A	
Contact Arrangement		Male 	Female 
Sheath		PUR	
Protocol		Ethernet CAT5e (1Gbps)	
Front-mounting with 2m cable			
Connector Style	Mount Thread	Part number	
 Male 	M16 x 1.5	268-A8000-1ES020	
	Pg9	268-A8002-1ES020	
 Female 	M16 x 1.5	269-A8000-1ES020	
	Pg9	269-A8002-1ES020	
Rear-mounting with 2m cable			
Connector Style	Mount Thread	Part number	
 Male 	M16 x 1.5	270-A8000-1ES020	
	Pg9	270-A8002-1ES020	
 Female 	M16 x 1.5	271-A8000-1ES020	
	Pg9	271-A8002-1ES020	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 A-Code Device Connector (Shielded) - Fieldbuses

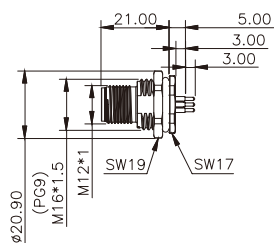
Coding and contacts	Code	A		A	
	Contacts	4		5	
Rated Voltage / Current		250V / 4A		60V / 4A	
Contact Arrangement		Male 	Female 	Male 	Female 
Sheath		PVC		PUR	
Protocol		CC-Link		DeviceNet CANopen	
Front-mounting with 2m cable					
Connector Style		Mount Thread	Part number		
Male 	 	M16 x 1.5	268-A4000-3CS020	268-A5000-1DS020	
		Pg9	268-A4002-3CS020	268-A5002-1DS020	
Female 	 	M16 x 1.5	269-A4000-3CS020	269-A5000-1DS020	
		Pg9	269-A4002-3CS020	269-A5002-1DS020	
Rear-mounting with 2m cable					
Connector Style		Mount Thread	Part number		
Male 	 	M16 x 1.5	270-A4000-3CS020	270-A5000-1DS020	
		Pg9	270-A4000-3CS020	270-A5002-1DS020	
Female 	 	M16 x 1.5	271-A4000-3CS020	271-A5000-1DS020	
		Pg9	271-A4002-3CS020	271-A5002-1DS020	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

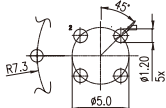
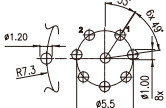
M12 A-Code One-piece PCB Circular Connector - Industrial Ethernet

Straight Pin Orientation, Rear-mounting (Shielded)

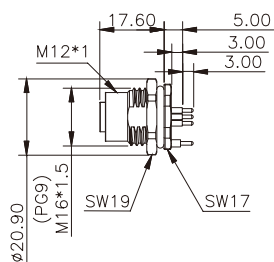
Male



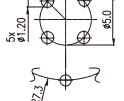
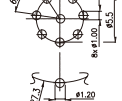
PCB Layout

Pin arrangement		Pin out
 4P		
	A-code	
 8P		
	A-code	

Female



PCB Layout

Pin arrangement		Pin out
 4P	A-code	
		

M12 A-Code One-piece PCB Connector - Industrial Ethernet

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
IP rating	IP67	Contact Carrier	PA
Operation temp	-40℃ ~ 80℃	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)		
	30VAC / 2A (8 Pin)		
Rated Impulse Voltage	2.5kV (≤4 Pin)		
	0.8kV (8 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 A-Code One-piece PCB Connector (Shielded) - Networks

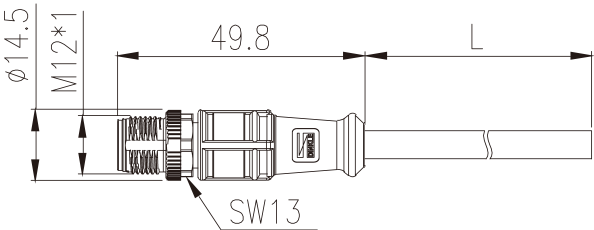
Coding and contacts	Code	A	
	Contacts	8	
Rated Voltage / Current		30V / 2A	
Contact Arrangement		Male 	Female 
Protocol		Ethernet CAT5e	
Rear-mounting, Straight, Shielded			
Connector Style	Mount Thread	Part number	
Male 	M16 X 1.5	276-A8000-E	
	Pg9	276-A8002-E	
Female 	M16 X 1.5	277-A8000-E	
	Pg9	277-A8002-E	

M12 A-Code One-piece PCB Connector (Shielded) - Fieldbuses

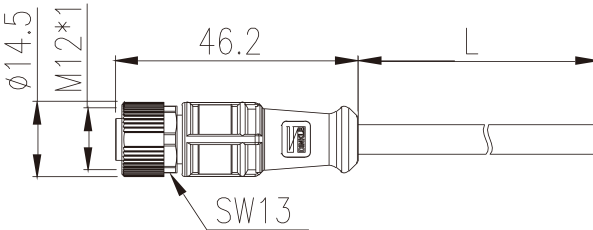
Coding and contacts	Code	A		A	
	Contacts	4		5	
Rated Voltage / Current		60V / 4A		60V / 4A	
Contact Arrangement		Male 	Female 	Male 	Female 
Protocol		CC-Link		DeviceNet/CANopen	
Rear-mounting, Straight, Shielded					
Connector Style	Mount Thread	Part number			
Male 	M16 X 1.5	276-A4000-C		276-A5000-D	
	Pg9	276-A4002-C		276-A5002-D	
Female 	M16 X 1.5	277-A4000-C		277-A5000-D	
	Pg9	277-A4002-C		277-A5002-D	

M12 B-Code Molded Circular Connector - Industrial Ethernet

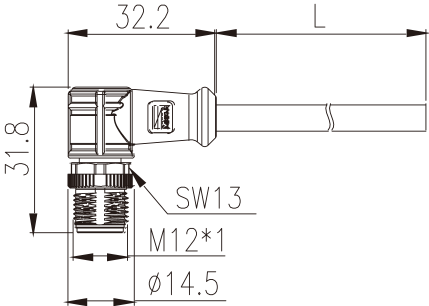
Single-ended straight male



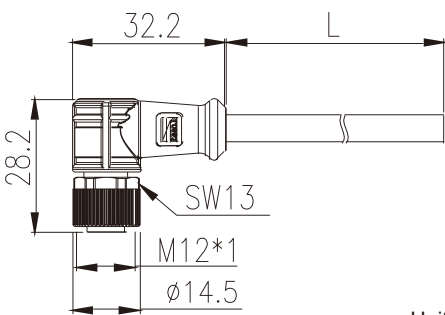
Single-ended straight female



Single-ended angled male

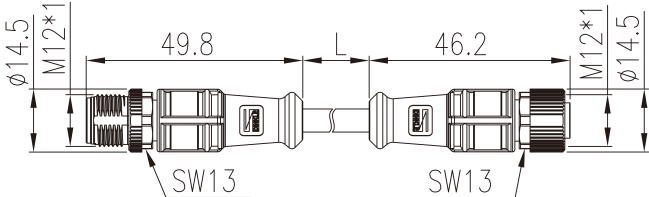


Single-ended angled female

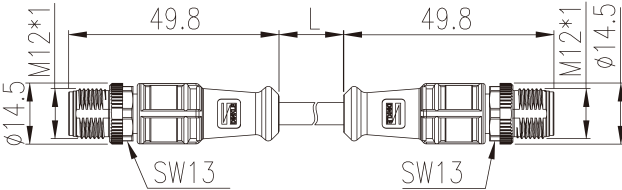


Unit: mm

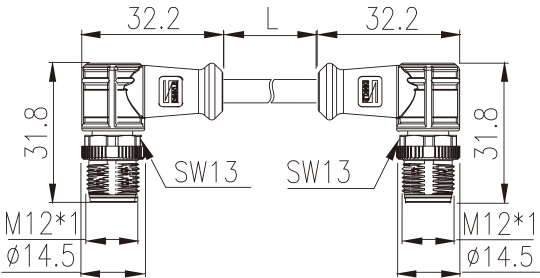
Straight male to straight female



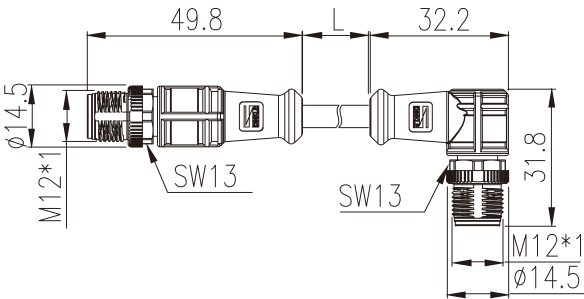
Straight male to straight male



Angled male to angled male

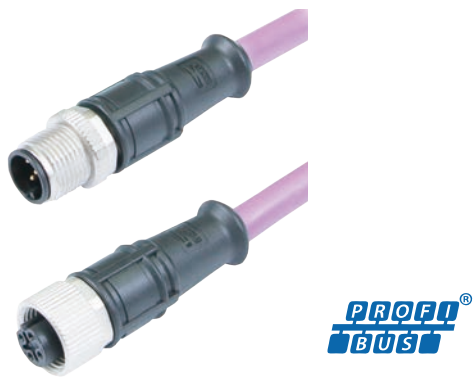
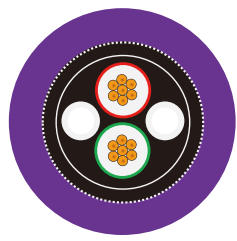


Straight male to angled male



Unit: mm

M12 B-Code Molded Connector - Industrial Ethernet

Protocols	PROFIBUS
	
Cross-section	
Communication	Profibus DP (12 Mbps)
Coding	B
Number of cores	5
Outer sheath, material	PUR
Outer sheath, color	Violet
Outer sheath, diameter	7.8 ± 0.2 mm
Ambient temperature (operation)	-40 °C ~ +80 °C
Shielding	AL-mylar, tinned copper braided shield
Conductor material	Stranded tinned copper
AWG signal line	22AWG
Wire colors	Green, Red
Core diameter including insulation	2.7 ± 0.1 mm
Conductor resistance	59.4 Ω /km(@20 °C)
Standards / Regulations	IEC 61158-2
	UL 758
	-
UL AWM style	20233
Flammability test	VW-1

M12 B-Code Molded Connector (Shielded) - Fieldbuses

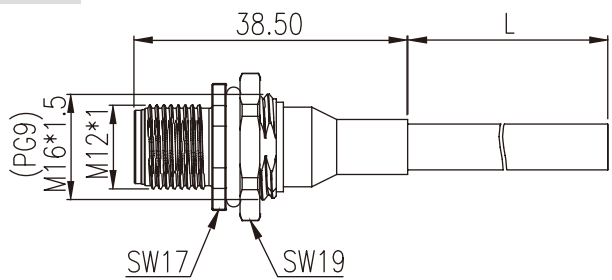
Coding and contacts	Code	B	
	Contacts	5	
Rated Voltage / Current		250V / 4A	
Contact Arrangement		Male 	Female 
Sheath		PUR	
Protocol		Profibus	
Connector Style	Length (m)	Part number	
	2	251-B5000-0BS020	
	5	251-B5000-0BS050	
	10	251-B5000-0BS100	
	2	252-B5000-0BS020	
	5	252-B5000-0BS050	
	10	252-B5000-0BS100	
	2	253-B5000-0BS020	
	5	253-B5000-0BS050	
	10	253-B5000-0BS100	
	2	254-B5000-0BS020	
	5	254-B5000-0BS050	
	10	254-B5000-0BS100	
	0.6	256-B5000-0BSL60	
	1.5	256-B5000-0BS015	
	3	256-B5000-0BS030	
	0.6	259-B5000-0BSL60	
	1.5	259-B5000-0BS015	
	3	259-B5000-0BS030	

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

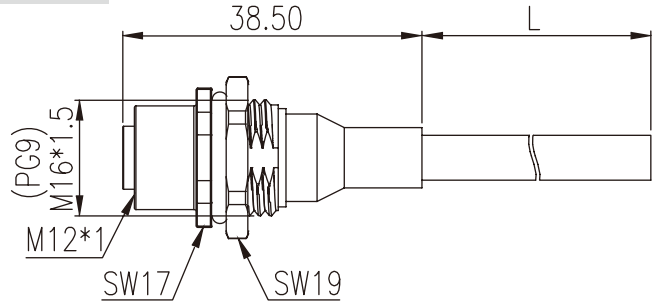
M12 B-Code Device Circular Connector - Industrial Ethernet

Front-mounting with 2m PUR Cable

Male

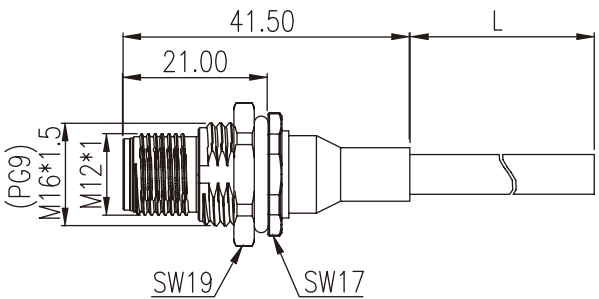


Female

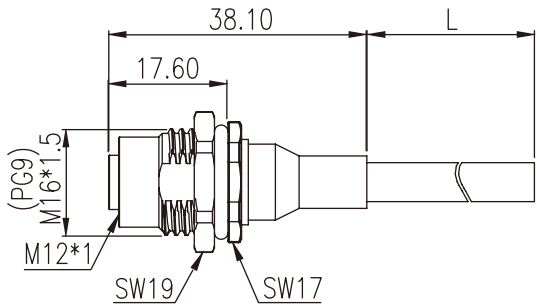


Rear-mounting with 2m PUR Cable

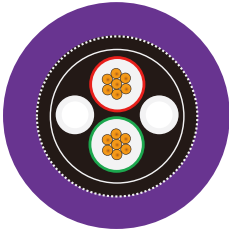
Male



Female



M12 B-Code Device Connector - Industrial Ethernet

Protocols	PROFIBUS
	
Cross-section	
Communication	Profibus DP (12 Mbps)
Coding	B
Number of cores	5
Outer sheath, material	PUR
Outer sheath, color	Violet
Outer sheath, diameter	7.8 ± 0.2 mm
Ambient temperature (operation)	-40 °C ~ +80 °C
Shielding	AL-mylar, tinned copper braided shield
Conductor material	Stranded tinned copper
AWG signal line	22AWG
Wire colors	Green, Red
Core diameter including insulation	2.7 ± 0.1 mm
Conductor resistance	59.4 Ω/km (@20 °C)
Standards / Regulations	IEC 61158-2
	UL 758
	-
UL AWM style	20233
Flammability test	VW-1

M12 B-Code Device Connector (Shielded) - Fieldbuses

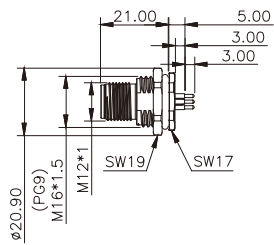
Coding and contacts	Code	B	
	Contacts	5	
Rated Voltage / Current		250V / 4A	
Contact Arrangement		Male 	Female 
Sheath		PUR	
Protocol		Profibus	
Front-mounting with 2m cable			
Connector Style	Mount Thread	Part number	
Male 	M16 x 1.5	268-B5000-1BS020	
	Pg9	268-B5002-1BS020	
Female 	M16 x 1.5	269-B5000-1BS020	
	Pg9	269-B5002-1BS020	
Rear-mounting with 2m cable			
Connector Style	Mount Thread	Part number	
Male 	M16 x 1.5	270-B5000-1BS020	
	Pg9	270-B5002-1BS020	
Female 	M16 x 1.5	271-B5000-1BS020	
	Pg9	271-B5002-1BS020	

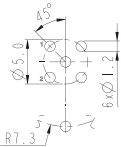
Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 B-Code One-piece PCB Circular Connector - Industrial Ethernet

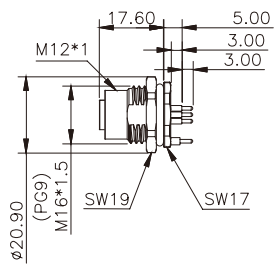
Straight Pin Orientation, Rear-mounting (Shielded)

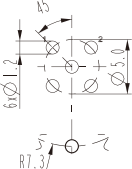
Male



PCB Layout	
Pin out	
Pin arrangement	
	5P
	B-code

Female



PCB Layout	
Pin out	
Pin arrangement	
	5P
	B-code

M12 B-Code One-piece PCB Connector - Industrial Ethernet

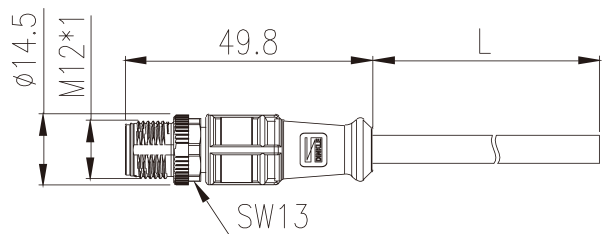
Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
IP rating	IP67	Contact Carrier	PA
Operation temp	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	60VAC / 4A (5 Pin)		
Rated Impulse Voltage	1.5kV (5 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 B-Code One-piece PCB Connector (Shielded) - Fieldbuses

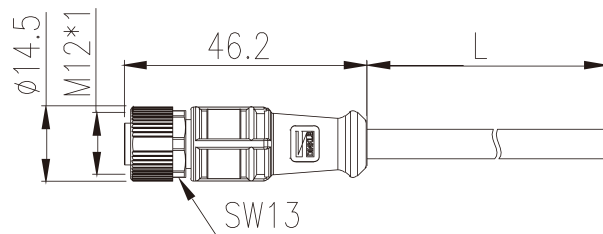
Coding and contacts	Code	B	
	Contacts	5	
Rated Voltage / Current		30V / 2A	
Contact Arrangement		Male 	Female 
Protocol		Profibus	
Rear-mounting, Straight, Shielded			
Connector Style	Mount Thread	Part number	
Male 	M16 X 1.5	276-B5000-B	
	Pg9	276-B5002-B	
Female 	M16 X 1.5	277-B5000-B	
	Pg9	277-B5002-B	

M12 D-Code Molded Circular Connector - Industrial Ethernet

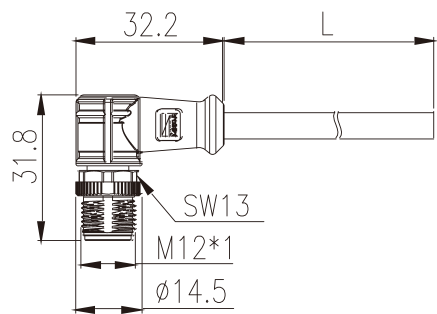
Single-ended straight male



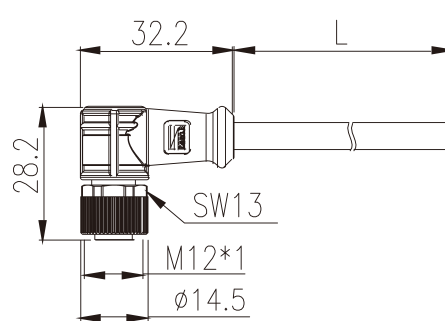
Single-ended straight female



Single-ended angled male

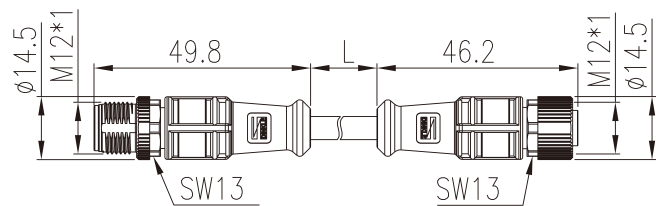


Single-ended angled female

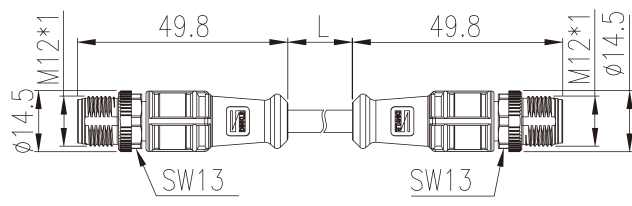


Unit: mm

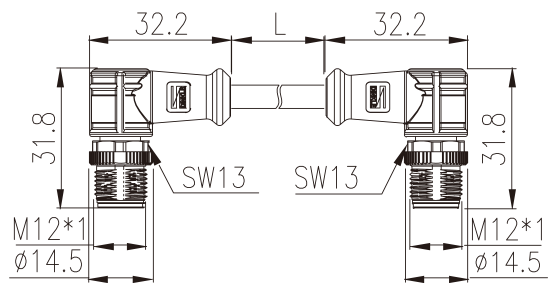
Straight male to straight female



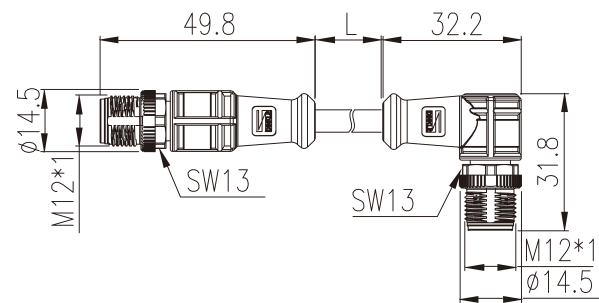
Straight male to straight male



Angled male to angled male

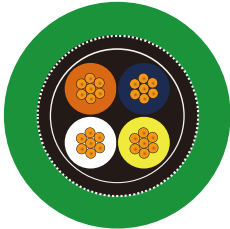
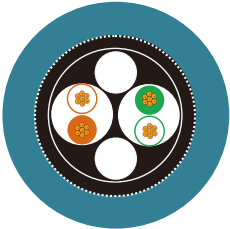


Straight male to angled male



Unit: mm

M12 D-Code Molded Connector - Industrial Ethernet

	Profinet	Ethernet
		
Protocols		
Cross-section		
Communication	PROFINET (100 Mbps)	Ethernet CAT5 (100 Mbps)
Coding	D	D
Number of cores	4	4
Outer sheath, material	PVC	PUR
Outer sheath, color	Green	Blue
Outer sheath, diameter	6.5 ± 0.2 mm	6.0 ± 0.25 mm
Ambient temperature (operation)	-40 °C ~ +80 °C	-40 °C ~ +80 °C
Shielding	AL-Foil, tin-plated copper braided shield	AL-mylar, tinned copper braided shield
Conductor material	Stranded tinned copper	Stranded bare copper
AWG signal line	22 AWG	26 AWG
Wire colors	White, Yellow, Blue, Orange	White / Orange, Orange, White / Green, Green
Core diameter including insulation	1.5 ± 0.1 mm	0.9 ± 0.05 mm
Conductor resistance	59.4 Ω / km (@20 °C)	< 148 Ω / km
Standards / Regulations	IEC 61156-6	ISO / IEC 11801
	ISO / IEC 11801	UL 1581
	UL 758	UL 758
UL AWM style	21694	20963
Flammability test	IEC 60332-1, FT2	IEC 60332-1, FT2

M12 D-Code Molded Connector (Shielded) - Networks

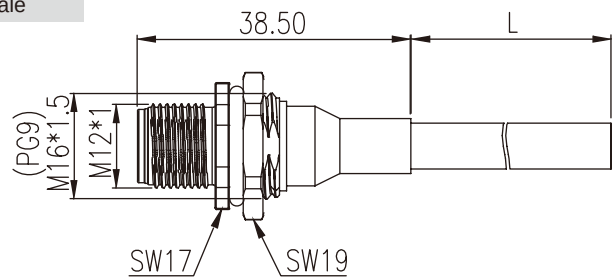
Coding and contacts		Code	D		D	
		Contacts	4		4	
Rated Voltage / Current		250V / 4A		30V / 2A		
Contact Arrangement		Male	Female	Male	Female	
						
Sheath		PVC		PUR		
Protocol		Profinet (100Mbps)		Ethernet CAT5 (100Mbps)		
Connector Style	Length (m)	Part number				
	2	251-D4A00-2PS020		251-D4000-0ES020		
	5	251-D4A00-2PS050		251-D4000-0ES050		
	10	251-D4A00-2PS100		251-D4000-0ES100		
	2	252-D4A00-2PS020		252-D4000-0ES020		
	5	252-D4A00-2PS050		252-D4000-0ES050		
	10	252-D4A00-2PS100		252-D4000-0ES100		
	2	253-D4A00-2PS020		253-D4000-0ES020		
	5	253-D4A00-2PS050		253-D4000-0ES050		
	10	253-D4A00-2PS100		253-D4000-0ES100		
	2	254-D4A00-2PS020		254-D4000-0ES020		
	5	254-D4A00-2PS050		254-D4000-0ES050		
	10	254-D4A00-2PS100		254-D4000-0ES100		
	0.6	256-D4A00-2PSL60		256-D4000-0ESL60		
	1.5	256-D4A00-2PS015		256-D4000-0ES015		
	3	256-D4A00-2PS030		256-D4000-0ES030		
	0.6	257-D4A00-2PSL60		257-D4000-0ESL60		
	1.5	257-D4A00-2PS015		257-D4000-0ES015		
	3	257-D4A00-2PS030		257-D4000-0ES030		
Power over Ethernet (PoE)						
	25	256-D4000-2PP250		256-D4000-0EP250		
	25	257-D4000-2PP250		257-D4000-0EP250		

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

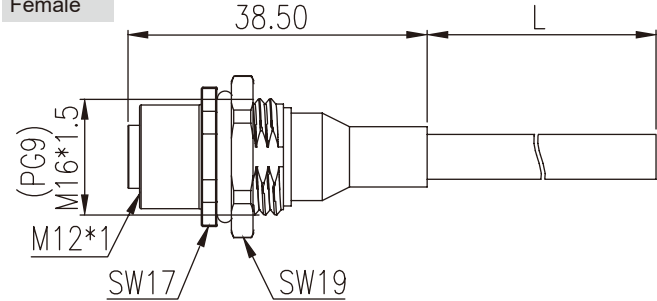
M12 D-Code Device Circular Connector - Industrial Ethernet

Front-mounting with 2m PUR Cable

Male

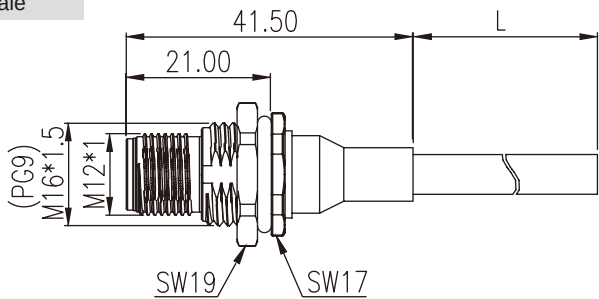


Female

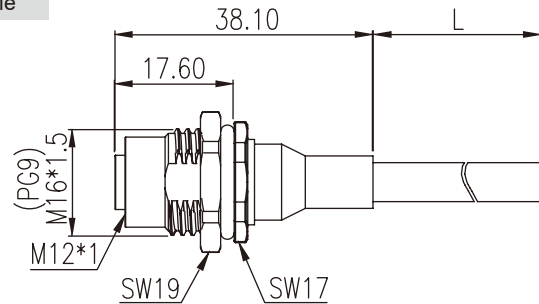


Rear-mounting with 2m PUR Cable

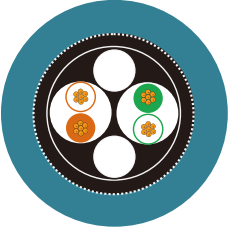
Male



Female



M12 D-Code Device Connector - Industrial Ethernet

Protocols	Profinet	Ethernet
		
Cross-section		
Communication	Profinet (100 Mbps)	Ethernet CAT5 (100 Mbps)
Coding	D	D
Number of cores	4	4
Outer sheath, material	PVC	PUR
Outer sheath, color	Green (RAL 6008)	Blue (RAL 5021)
Outer sheath, diameter	6.5 ± 0.2 mm	6.0 ± 0.3 mm
Ambient temperature (operation)	-40 °C ~ +80 °C	-40 °C ~ +80 °C
Shielding	AL-Foil, tin-plated copper braided shield	AL-mylar, tinned copper braided shield
Conductor material	Stranded tinned copper	Stranded bare copper
AWG signal line	22AWG	26AWG
Wire colors	White, Yellow, Blue, Orange	White / Orange, Orange, White / Green, Green
Core diameter including insulation	1.5 ± 0.1 mm	0.9 ± 0.05 mm
Conductor resistance	59.4 Ω/km(@20 °C)	< 148 Ω/km
Standards / Regulations	IEC 61156-6	ISO/IEC 11801
	ISO/IEC 11801	UL 1581
	UL 758	UL 758
UL AWM style	21694	20963
Flammability test	IEC 60332-1, FT2	IEC 60332-1, FT2

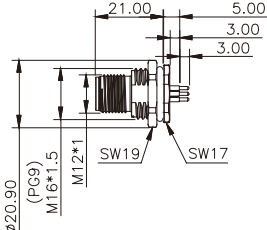
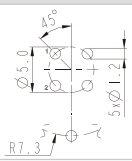
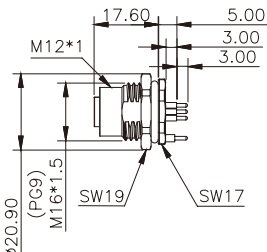
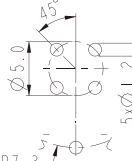
M12 D-Code Device Connector (Shielded) - Networks

Coding and contacts	Code	D		D	
	Contacts	4		4	
Rated Voltage / Current		250V / 4A		30V / 4A	
Contact Arrangement		Male	Female	Male	Female
					
Sheath		PVC		PUR	
Protocol		Profinet (100Mbps)		Ethernet CAT5 (100Mbps)	
Front-mounting with 2m cable					
Connector Style		Mount Thread	Part number		
Male 	 	M16 x 1.5	268-D4000-3PS020		268-D4000-1ES020
		Pg9	268-D4002-3PS020		268-D4002-1ES020
Female 	 	M16 x 1.5	269-D4000-3PS020		269-D4000-1ES020
		Pg9	269-D4002-3PS020		269-D4002-1ES020
Rear-mounting with 2m cable					
Connector Style		Mount Thread	Part number		
Male 	 	M16 x 1.5	270-D4000-3PS020		270-D4000-1ES020
		Pg9	270-D4002-3PS020		270-D4002-1ES020
Female 	 	M16 x 1.5	271-D4000-3PS020		271-D4000-1ES020
		Pg9	271-D4002-3PS020		271-D4002-1ES020

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 D-Code One-piece PCB Circular Connector - Industrial Ethernet

Straight Pin Orientation, Rear-mounting (Shielded)

Male		PCB Layout	
		Pin out	
Female		PCB Layout	
		Pin out	
		Pin arrangement	
			4P D- code
		Pin arrangement	
			4P D- code

M12 D-Code One-piece PCB Connector - Industrial Ethernet

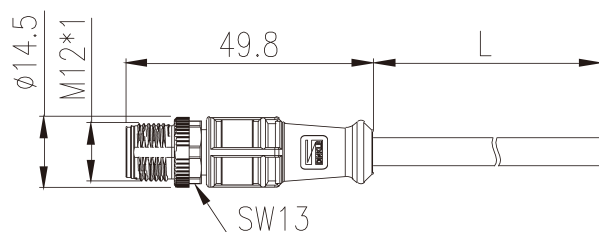
Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
IP rating	IP67	Contact Carrier	PA
Operation temp	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	250VAC / 4A (≤4 Pin)		
Rated Impulse Voltage	2.5kV (≤4 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238 / UL2237		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 D-Code One-piece PCB Connector (Shielded) - Networks

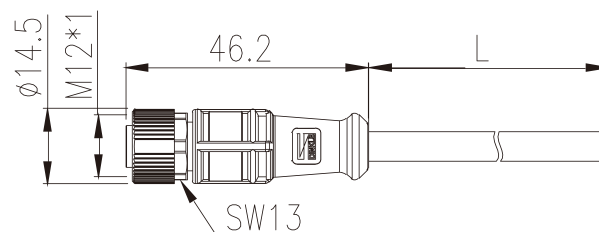
Coding and contacts	Code	D		D	
	Contacts	4		4	
Rated Voltage / Current		60V / 4A		60V / 4A	
Contact Arrangement		Male	Female	Male	Female
					
Protocol		PROFINET		Ethernet CAT5e	
Rear-mounting, Straight, Shielded					
Connector Style	Mount Thread	Part number			
Male 	M16 X 1.5	276-D4000-P		276-D4000-E	
	Pg9	276-D4002-P		276-D4002-E	
Female 	M16 X 1.5	277-D4000-P		277-D4000-E	
	Pg9	277-D4002-P		277-D4002-E	

M12 X-Code Molded Circular Connector - Industrial Ethernet

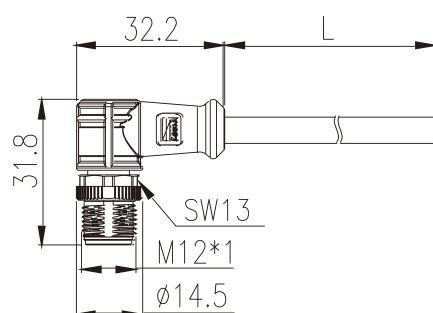
Single-ended straight male



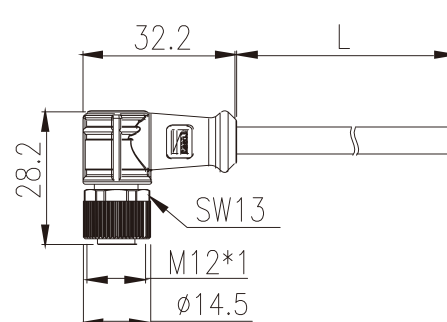
Single-ended straight female



Single-ended angled male

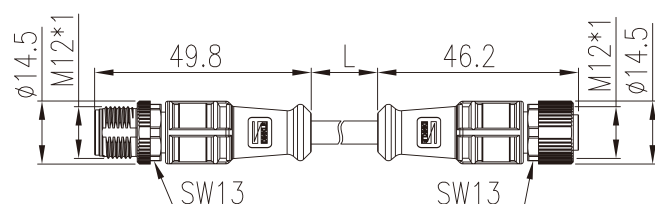


Single-ended angled female

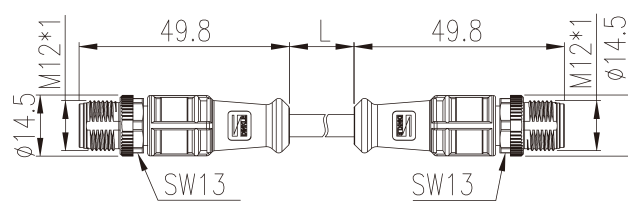


Unit: mm

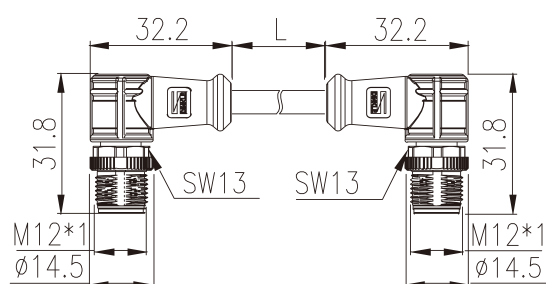
Straight male to straight female



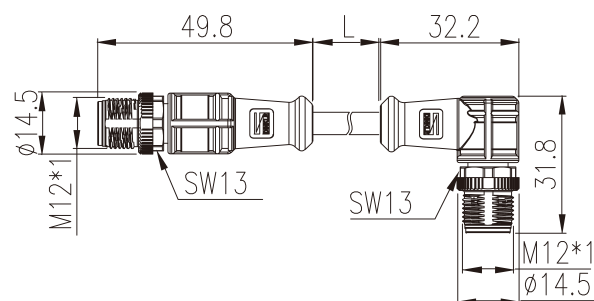
Straight male to straight male



Angled male to angled male



Straight male to angled male



Unit: mm

M12 X-Code Molded Connector - Industrial Ethernet

Protocols	Ethernet
	Ethernet
Cross-section	
Communication	Ethernet CAT6A (10 Gbps)
Coding	X
Number of cores	8
Outer sheath, material	PUR
Outer sheath, color	Blue (RAL 5021)
Outer sheath, diameter	6.45± 0.2 mm
Ambient temperature (operation)	-40 °C ~ +80 °C
Shielding	AL-mylar, tinned copper braided shield
Conductor material	Stranded bare copper
AWG signal line	26AWG
Wire colors	White / Orange, Orange, White / Green, Green, White / Brown, Brown, White / Blue, Blue
Core diameter including insulation	1.08 ± 0.2 mm
Conductor resistance	148 Ω/km
Standards / Regulations	ISO/IEC 11801
	EIA/TIA 568
	IEC 60754-1
UL AWM style	20549
Flammability test	IEC 60332-1, FT2

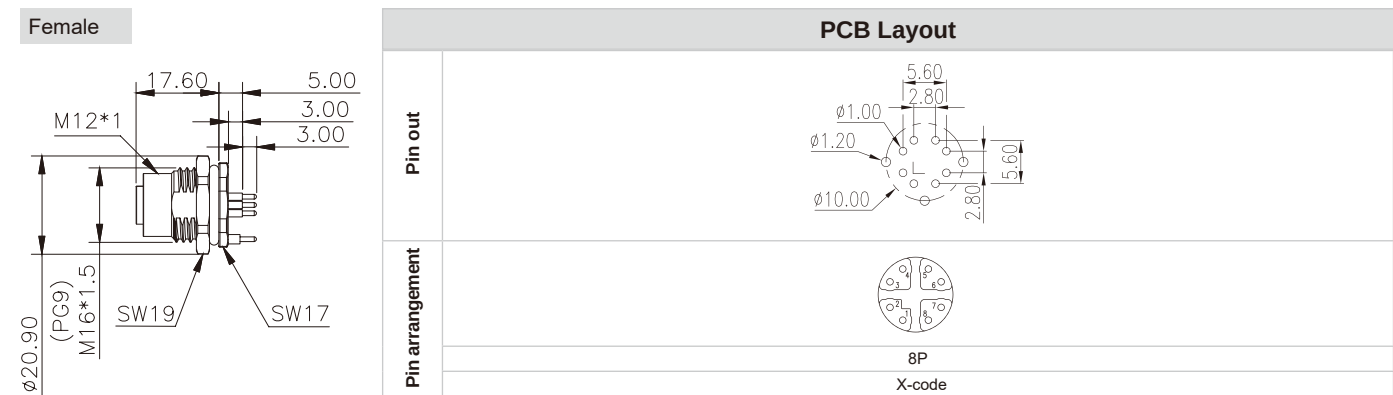
M12 X-Code Molded Connector (Shielded) - Networks

Coding and contacts	Code	X
	Contacts	8
Rated Voltage / Current		50V / 0.5A
Contact Arrangement		Male 
Sheath		PUR
Protocol		Ethernet CAT6A (10Gbps)
Connector Style	Length (m)	Part number
Single-ended straight male  	2	251-X8300-0AS020
	5	251-X8300-0AS050
	10	251-X8300-0AS100
Single-ended straight female  	2	252-X8300-0AS020
	5	252-X8300-0AS050
	10	252-X8300-0AS100

Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 X-Code One-piece PCB Circular Connector - Industrial Ethernet

Straight Pin Orientation, Rear-mounting (Shielded)



M12 X-Code One-piece PCB Connector - Industrial Ethernet

Mechanical Properties		Material Properties	
Min. Insertion/withdrawal cycles	100	Contact / Contact Surface	Copper Alloy / Gold plated
IP rating	IP67	Contact Carrier	PA
Operation temp	-40°C ~ 80°C	Hex Nut / Housing	Zinc Alloy, Nickel-Plated / Brass Alloy, Nickel-Plated
Fasten torque	0.4 Nm	Cable gland material	NBR
Soldering Method	Wave Soldering	UL 94 Flammability Rating	V0
Electrical Properties		Cable Information	
Rated Voltage / Rated Current	30VAC / 2A (8 Pin)		
Rated Impulse Voltage	0.8kV (8 Pin)		
Insulation Resistance	Min.100MΩ		
Overvoltage Category	II		
Pollution Degree	3		
Standards and Regulations			
Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking		
	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking		
	IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods		
	IEC 60529: Degree of protection provided by enclosures (IP Code)		
Certification reference	UL 2238		
Notice			
To ensure the specified electrical and mechanical performance, the mated connector pair must be properly locked and installed. If the connector is not locked or is at risk of contamination, it must be sealed with a protective cap rated above IP54. The effects of stranded wires, cables, and PCB assemblies must also be taken into account.			

M12 X-Code One-piece PCB Connector (Shielded) - Networks

Coding and contacts	Code	X
	Contacts	8
Rated Voltage / Current		30V / 1.5A
Contact Arrangement		Female 
Protocol		Ethernet CAT6A
Rear-mounting, Straight, Shielded		
Connector Style	Mount Thread	Part number
Male  	M16 X 1.5	-
	Pg9	-
Female  	M16 X 1.5	277-X8300-3
	Pg9	277-X8302-3

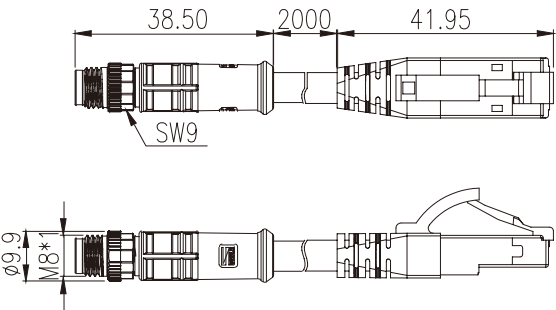
Functional class

Dinkle provides high-quality M8 and M12 circular connector mate RJ45 adapter solutions designed specifically for the demanding network communication needs of industrial automation and harsh environments. These circular connectors securely encapsulate the RJ45 network interface in an IP67-rated metal housing, offering waterproof and dustproof protection while maintaining stable data transmission even in conditions with moisture, oil, and dust. With excellent vibration resistance and durability, these connectors are particularly suited for applications such as factory automation equipment, robotic arms, and intelligent warehousing systems, ensuring stable and reliable Ethernet connections. Dinkle's circular connector mate RJ45 series is easy to install and maintain, effectively reducing wiring errors during network installation, enhancing overall production efficiency, and providing dependable network connection protection for your equipment.



M8 A-Code Molded Circular Connector Mate RJ45 Connector

Male



Unit: mm

M8 A-Code Molded Connector Mate RJ45 Connector

Protocols	Profinet
	 Ethernet
Cross-section	
Communication	Ethernet CAT5e
Coding	A
Number of cores	4
Outer sheath, material	PUR
Outer sheath, color	Blue (RAL 5021)
Outer sheath, diameter	6.0 ± 0.2 mm
Ambient temperature (operation)	-40 °C ~ +80 °C
Shielding	AL-Foil, tin-plated copper braided shield
Conductor material	Stranded tinned copper
AWG signal line	26AWG
Wire colors	White/Orange, Orange, White/Green, Green
Core diameter including insulation	0.9 ± 0.05 mm
Conductor resistance	< 148 Ω/km
Standards / Regulations	ISO / IEC 11801
	UL 1581
	UL 758
UL AWM style	20963
Flammability test	IEC 60332-1, FT2

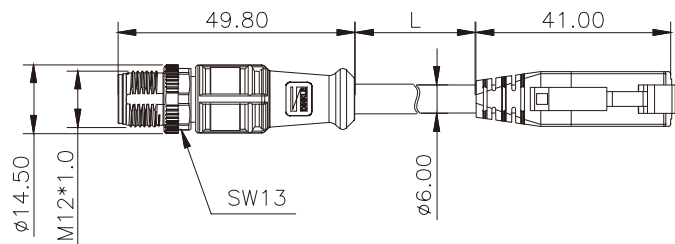
M8 A-Code Molded Connector (Shielded) Mate RJ45 Connector - Networks

Coding and contacts	Code	A	
	Contacts	8	
Rated Voltage / Current		30V / 2A	
Contact Arrangement		Male 	Female 
Sheath		PUR	
Protocol		Ethernet CAT5e (1Gbps)	
Connector Style	Length (m)	Part number	
Straight male mate RJ45  	0.6	399-A4EML60	
	1.5	399-A4EM015	
	3	399-A4EM030	
Straight female mate RJ45  	0.6	399-A4EFL60	
	1.5	399-A4EF015	
	3	399-A4EF030	
Angled male mate RJ45  	0.6	398-A4EML60	
	1.5	398-A4EM015	
	3	398-A4EM030	
Angled female mate RJ45  	0.6	398-A4EFL60	
	1.5	398-A4EF015	
	3	398-A4EF030	

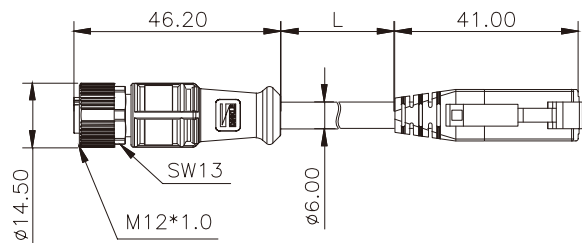
Cable lengths can be customized to your requirements. Please contact us for details.

M12 A-Code Molded Circular Connector Mate RJ45 Connector

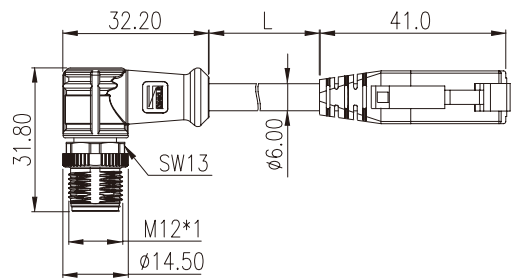
Straight male mate RJ45



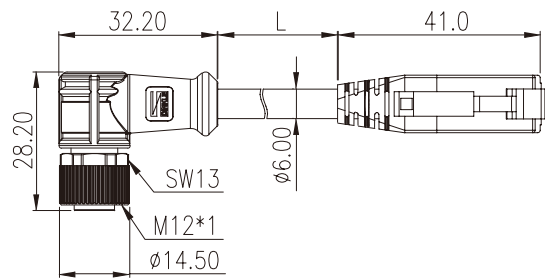
Straight female mate RJ45



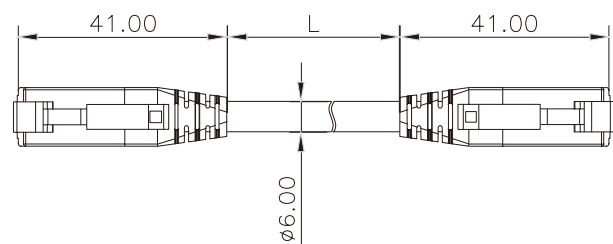
Angled male mate RJ45



Angled female mate RJ45



RJ45+RJ45



Unit: mm

M12 A-Code Molded Connector Mate RJ45 Connector

Protocols	Ethernet
	
Cross-section	
Communication	Ethernet CAT5e (1 Gbps)
Coding	A
Number of cores	8
Outer sheath, material	PUR
Outer sheath, color	Blue (RAL 5021)
Outer sheath, diameter	6.0 ± 0.3 mm
Ambient temperature (operation)	-40 °C ~ +80 °C
Shielding	AL-mylar, tinned copper braided shield
Conductor material	Stranded bare copper
AWG signal line	26AWG
Wire colors	White / Blue, Blue, White / Orange, Orange, White / Green, Green, White / Brown, Brown
Core diameter including insulation	0.92 ± 0.05 mm
Conductor resistance	< 148 Ω/km
Standards / Regulations	ISO/IEC 11801
	UL 1581
	UL 758
UL AWM style	20963
Flammability test	IEC 60332-1, FT2

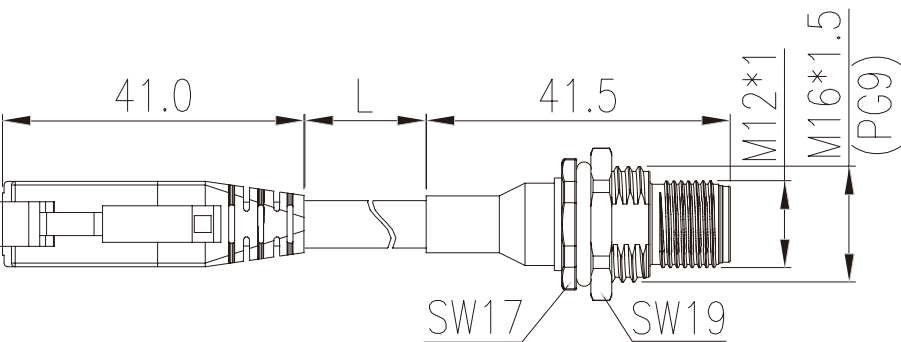
M12 A-Code Molded Connector (Shielded) Mate RJ45 Connector

Coding and contacts	Code	A	
	Contacts	8	
Rated Voltage / Current		30V / 1A	
Contact Arrangement		Male	Female
			
Sheath		PUR	
Protocol		Ethernet CAT5e (1Gbps)	
Connector Style	Length (m)	Part number	
Straight male mate RJ45  	0.6	2A1-A8EML60	
	1.5	2A1-A8EM015	
	3	2A1-A8EM030	
Straight female mate RJ45  	0.6	2A1-A8EFL60	
	1.5	2A1-A8EF015	
	3	2A1-A8EF030	
Angled male mate RJ45  	0.6	2A0-A8EML60	
	1.5	2A0-A8EM015	
	3	2A0-A8EM030	
Angled female mate RJ45  	0.6	2A0-A8EFL60	
	1.5	2A0-A8EF015	
	3	2A0-A8EF030	
RJ45 + RJ45  	1	0206-0301	
	3	0206-0303	
	5	0206-0305	

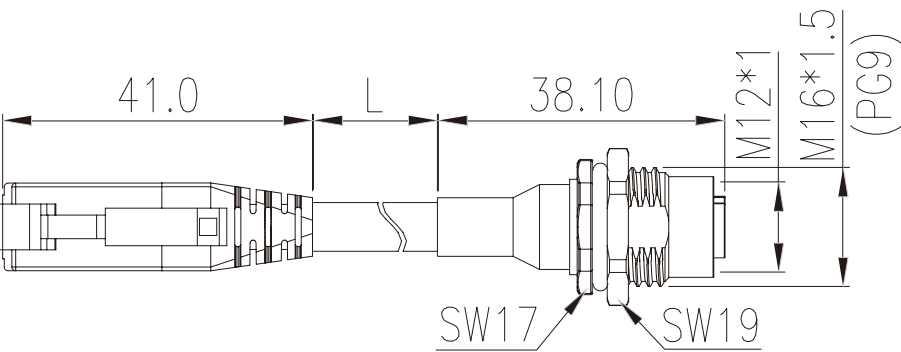
Cable lengths can be customized to your requirements. Please contact us for details.

M12 A-Code Device Circular Connector Mate RJ45 Connector

Straight male mate RJ45



Straight female mate RJ45



Unit: mm

M12 A-Code Device Connector Mate RJ45 Connector

Protocols	Ethernet
	 Ethernet
Cross-section	
Communication	Ethernet CAT5e (1 Gbps)
Coding	A
Number of cores	8
Outer sheath, material	PUR
Outer sheath, color	Blue (RAL 5021)
Outer sheath, diameter	6.0 ± 0.3 mm
Ambient temperature (operation)	-40 °C ~ +80 °C
Shielding	AL-mylar, tinned copper braided shield
Conductor material	Stranded bare copper
AWG signal line	26AWG
Wire colors	White / Blue, Blue, White / Orange, Orange, White / Green, Green, White / Brown, Brown
Core diameter including insulation	0.92 ± 0.05 mm
Conductor resistance	< 148 Ω/km
Standards / Regulations	IEC 61076-2-101
	IEC 60512
	IEC 60529
UL AWM style	UL 2238
Flammability test	V0

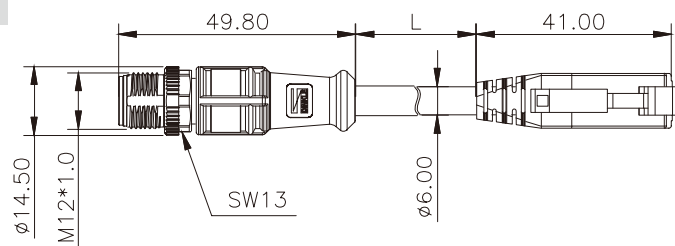
M12 A-Code Device Connector (Shielded) Mate RJ45 Connector - Networks

Coding and contacts	Code	A	
	Contacts	8	
Rated Voltage / Current		30V / 2A	
Contact Arrangement		Male 	Female 
Sheath		PUR	
Protocol		Ethernet CAT5e (1Gbps)	
Rear-mounting Mate RJ45 Connector with 2m cable			
Connector Style	Mount Thread	Part number	
Male mate RJ45 	M16 x 1.5	0206-700-0302	
	Pg9	0206-702-0302	
Female mate RJ45 	M16 x 1.5	0206-710-0302	
	Pg9	0206-712-0302	

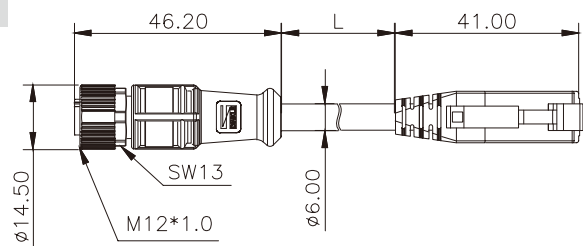
Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 D-Code Molded Circular Connector Mate RJ45 Connector

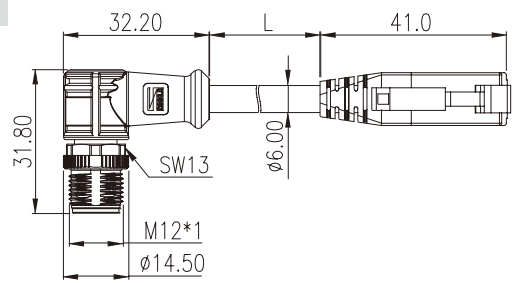
Straight male mate RJ45



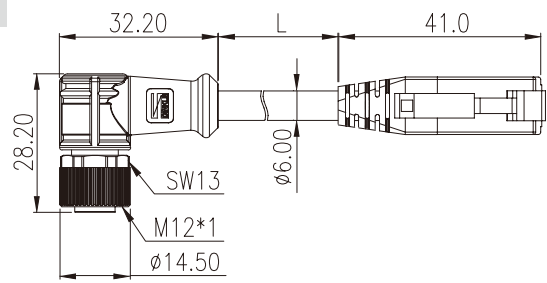
Straight female mate RJ45



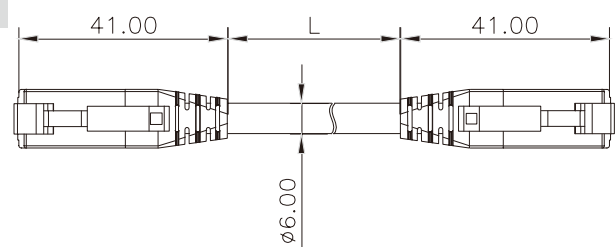
Angled male mate RJ45



Angled female mate RJ45

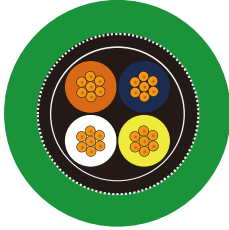


RJ45+RJ45

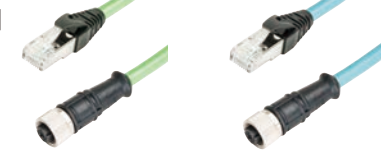


Unit: mm

M12 D-Code Molded Connector Mate RJ45 Connector

Protocols	Profinet	Ethernet
		 Ethernet
Cross-section		
Communication	Profinet (100 Mbps)	Ethernet CAT5 (100 Mbps)
Coding	D	D
Number of cores	4	4
Outer sheath, material	PVC	PUR
Outer sheath, color	Green (RAL 6008)	Blue (RAL 5021)
Outer sheath, diameter	$6.5 \pm 0.2 \text{ mm}$	$6.0 \pm 0.3 \text{ mm}$
Ambient temperature (operation)	$-40 \text{ }^{\circ}\text{C} \sim +80 \text{ }^{\circ}\text{C}$	$-40 \text{ }^{\circ}\text{C} \sim +80 \text{ }^{\circ}\text{C}$
Shielding	AL-Foil, tin-plated copper braided shield	AL-mylar, tinned copper braided shield
Conductor material	Stranded tinned copper	Stranded bare copper
AWG signal line	22AWG	26AWG
Wire colors	White, Yellow, Blue, Orange	White / Orange, Orange, White / Green, Green
Core diameter including insulation	$1.5 \pm 0.1 \text{ mm}$	$0.9 \pm 0.05 \text{ mm}$
Conductor resistance	$59.4 \text{ } \Omega/\text{km} (@20 \text{ }^{\circ}\text{C})$	$< 148 \text{ } \Omega/\text{km}$
Standards / Regulations	IEC 61156-6	ISO/IEC 11801
	ISO/IEC 11801	UL 1581
	UL 758	UL 758
UL AWM style	21694	20963
Flammability test	IEC 60332-1, FT2	IEC 60332-1, FT2

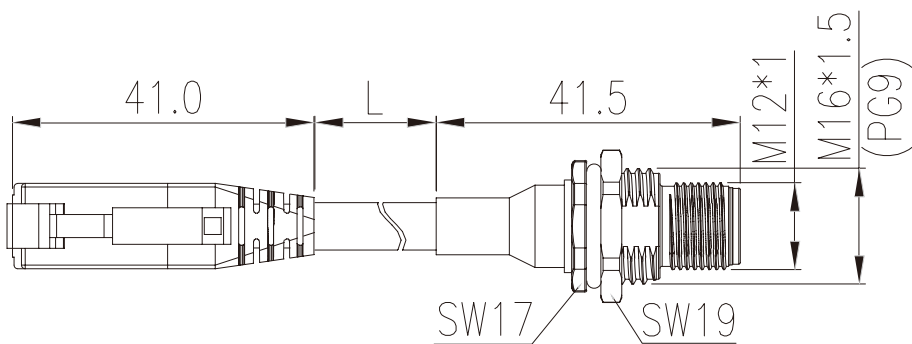
M12 D-Code Molded Connector (Shielded) Mate RJ45 Connector - Networks

Coding and contacts		Code	D		D	
		Contacts	4		4	
Rated Voltage / Current			250V / 4A		30V / 2A	
Contact Arrangement			Male	Female	Male	Female
						
Sheath			PVC		PUR	
Protocol			Profinet (100Mbps)		Ethernet CAT5 (100Mbps)	
Connector Style		Length (m)	Part number			
 	Straight male mate RJ45	0.6	2A1-D4PML60		299-D4EML60	
		1.5	2A1-D4PM015		299-D4EM015	
		3	2A1-D4PM030		299-D4EM030	
 	Straight female mate RJ45	0.6	2A1-D4PFL60		299-D4EFL60	
		1.5	2A1-D4PF015		299-D4EF015	
		3	2A1-D4PF030		299-D4EF030	
 	Angled male mate RJ45	0.6	2A0-D4PML60		298-D4EML60	
		1.5	2A0-D4PM015		298-D4EM015	
		3	2A0-D4PM030		298-D4EM030	
 	Angled female mate RJ45	0.6	2A0-D4PFL60		298-D4EFL60	
		1.5	2A0-D4PF015		298-D4EF015	
		3	2A0-D4PF030		298-D4EF030	
 	RJ45 + RJ45	1	0206-0101		0206-0201	
		3	0206-0103		0206-0203	
		5	0206-0105		0206-0205	

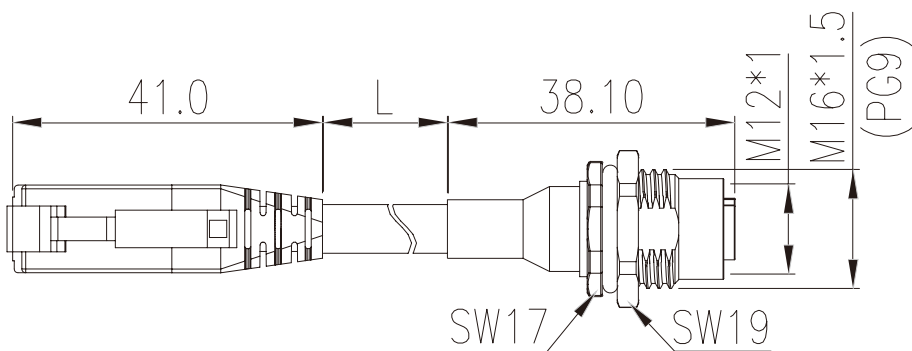
Cable lengths can be customized to your requirements. Please contact us for details.

M12 D-Code Device Circular Connector Mate RJ45 Connector

Straight male mate RJ45



Straight female mate RJ45



Unit: mm

M12 D-Code Device Connector Mate RJ45 Connector

	Profinet	Ethernet
Protocols		 Ethernet
Cross-section		
Communication	Profinet (100 Mbps)	Ethernet CAT5 (100 Mbps)
Coding	D	D
Number of cores	4	4
Outer sheath, material	PVC	PUR
Outer sheath, color	Green (RAL 6008)	Blue (RAL 5021)
Outer sheath, diameter	6.5 ± 0.2 mm	6.0 ± 0.3 mm
Ambient temperature (operation)	-40 °C ~ +80 °C	-40 °C ~ +80 °C
Shielding	AL-Foil, tin-plated copper braided shield	AL-mylar, tinned copper braided shield
Conductor material	Stranded tinned copper	Stranded bare copper
AWG signal line	22AWG	26AWG
Wire colors	White, Yellow, Blue, Orange	White / Orange, Orange, White / Green, Green
Core diameter including insulation	1.5 ± 0.1 mm	0.9 ± 0.05 mm
Conductor resistance	59.4 Ω/km(@20 °C)	< 148 Ω/km
Standards / Regulations	IEC 61156-6	ISO/IEC 11801
	ISO/IEC 11801	UL 1581
	UL 758	UL 758
UL AWM style	21694	20963
Flammability test	IEC 60332-1, FT2	IEC 60332-1, FT2

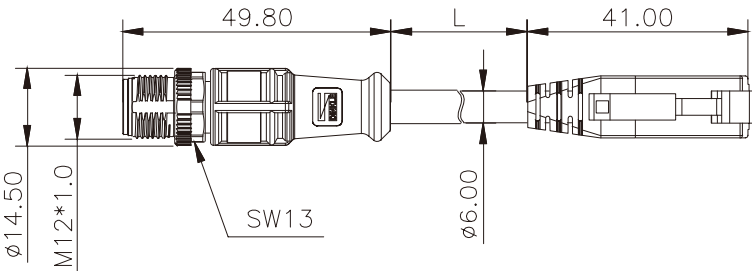
M12 D-Code Device Connector (Shielded) Mate RJ45 Connector - Networks

Coding and contacts	Code	D		D	
	Contacts	4		4	
Rated Voltage / Current		250V / 4A		30V / 4A	
Contact Arrangement		Male 	Female 	Male 	Female 
Sheath		PVC		PUR	
Protocol		PROFINET CAT5 (100Mbps)		Ethernet CAT5 (100Mbps)	
Front-mounting with 2m cable					
Connector Style		Mount Thread	Part number		
	Male mate RJ45 	M16 x 1.5	0206-700-0102		0206-700-0202
		Pg9	0206-702-0102		0206-702-0202
	Female mate RJ45 	M16 x 1.5	0206-710-0102		0206-710-0202
		Pg9	0206-712-0102		0206-712-0202

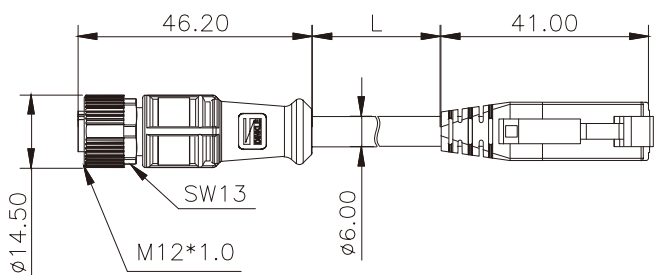
Connector configurations and cable lengths can be customized to your requirements. Please contact us for details.

M12 X-Code Molded Circular Connector Mate RJ45 Connector

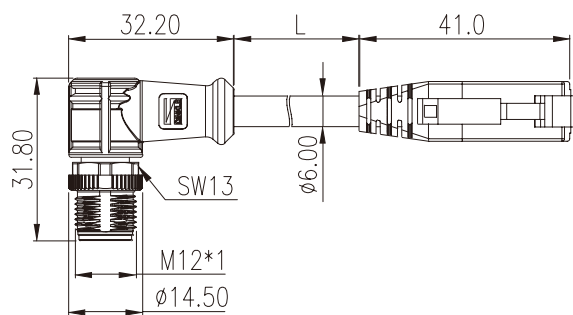
Straight male mate RJ45



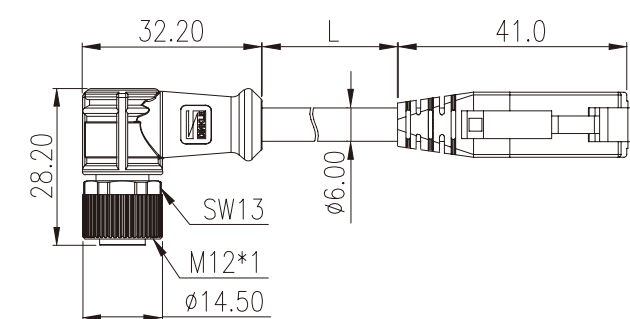
Straight female mate RJ45



Angled male mate RJ45



Angled female mate RJ45



Unit: mm

M12 X-Code Molded Connector Mate RJ45 Connector

Protocols	Ethernet
	
Cross-section	
Communication	Ethernet CAT6A (10 Gbps)
Coding	X
Number of cores	8
Outer sheath, material	PUR
Outer sheath, color	Blue (RAL 5021)
Outer sheath, diameter	6.45 ± 0.2 mm
Ambient temperature (operation)	-40 °C ~ +80 °C
Shielding	AL-mylar, tinned copper braided shield
Conductor material	Stranded bare copper
AWG signal line	26AWG
Wire colors	White / Orange, Orange, White / Green, Green, White / Brown, Brown, White / Blue, Blue
Core diameter including insulation	1.08 ± 0.2 mm
Conductor resistance	148 Ω/km
Standards / Regulations	ISO/IEC 11801
	EIA/TIA 568
	IEC 60754-1
UL AWM style	20549
Flammability test	IEC 60332-1, FT2

M12 X-Code Molded Connector (Shielded) Mate RJ45 Connector - Networks

Coding and contacts	Code	X	
	Contacts	8	
Rated Voltage / Current		50V / 0.5A	
Contact Arrangement		Male 	
Sheath		PUR	
Protocol		Ethernet CAT6A (10Gbps)	
Connector Style	Length (m)	Part number	
Straight male mate RJ45  	0.6	299-X8AML60	
	1.5	299-X8AM015	
	3	299-X8AM030	
Straight female mate RJ45  	0.6	299-X8AFL60	
	1.5	299-X8AF015	
	3	299-X8AF030	

Cable lengths can be customized to your requirements. Please contact us for details.

Accessories

For sensor/actuator cables, receptacles, and connectors not yet used by field I/O devices, DINKLE offers M8 and M12 plastic sealing caps to increase the IP rating of unmated connectors. Especially for panel and PCB applications, you can also choose a waterproof cover with a rubber strap to avoid the risk of losing the cover during use.



Product	Size	M8		M12	
	Suitable mounting thread	For male	For female	For male	For female
		Part number			
 Plastic sealing cap	-	-	-	-	200-A002
	-	-	-	200-A001	-
	-	300-A003	-	-	-
	-	-	300-A005	-	-
 Plastic sealing cap with	M16 x 1.5, Pg9	-	-	200-A003	-
	M16 x 1.5, Pg9	-	-	-	200-A004
	M12	-	300-A001	-	-
	M8	300-A004	300-A002	-	-

For unused connection endpoints of sensor/actuator cables, sockets, and field I/O devices, Dinkle has introduced the M8 and M12 series plastic sealing caps to enhance the IP rating of unpaired connectors. Specifically, for panel and PCB connectors on the device side, you can also choose waterproof caps with rubber chains to prevent the risk of loss due to dropping during use.