DINKLE Delight Through Connections

DINKLE ENTERPRISE CO., LTD.

No.19,Wuquan 2nd Road., Wugu District,
New Taipei City 24890, Taiwan
TEL:+886-2-8069-9000 7705-6900
FAX:+886-2-2290-1702
E-mail:service@dinkle.com
Web:www.dinkle.com

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TEL:+886-2-8069-9000 7705-6900
FAX:+886-2-2290-1702
E-mail:service@dinkle.com
Web:www.dinkle.com

OPTIKLE INTERNATIONAL CO., LTD.

Room 29, 1/F, Block B, Proficient Industrial Center,
No.6 Wang Kwun Road, Kowloon Bay, Kowloon,
Hong Kong
TEL:+852-2795-3840 2758-8005
FAX:+852-2753-6919
E-mail: Service.LY.Sales@dinkle.com.cn
Web:www.dinkle.com

DINKLE ELECTRIC MACHINERY (CHINA) CO., LTD.

No.388,Xingpu Mid RD,Shipu Business Adminstration Estate,
Qiandeng Town, Kunshan City, Jiangsu Province, China
TEL:+86-512-5708-8588
FAX:+86-512-5708-8600
E-mail:Service.SH.Sales@dinkle.com.cn
Web: www.dinkle.com/kscn/

LIYAN ELECTRIC MACHINERY (DONGGUAN) CO., LTD.

No.16 2st street Jinqian Ridge, Jiming gang village,
Huangjiang town, Dongguan City, Guangdong Province
TEL:+86-769-8336-4350 8336-4370
FAX:+86-769-8336-4314
E-mail:Service.LY.Sales@dinkle.com.cn
Web:www.dinkle.com/cn/

DINKLE CORPORATION, USA

13748 Pike Road. Missouri City, Texas, USA 77489
TEL:+1-832-539-4703
Toll-Free:+1-844-273-1850
FAX:+1-832-532-7226
E-mail:Service.US.Sales@dinkle.com
Web:www.dinkle.com/en/home

DINKLE S.R.L.,ITALY

Via Stabilini n°14, 23864 Malgrate (LC), Italia
TEL:+39/0341176154
E-mail:Service.It.Sales@dinkle.com
Web:www.dinkle.com/it/

DINKLE ELECTRIC TRADING (SHANGHAI) CO., LTD.

Unit 3706, 2 Grand Gateway, No. 3 Hongqiao Road,
Xuhui District, Shanghai City.
TEL:+86-21-6487-0636 6487-5423
FAX:+86-21-3356-2500
E-mail: Service.SH.Sales@dinkle.com.cn
Web: www.dinkle.com/cn/

Beijing Sales Office
TEL:+86-10-5873-4338
FAX:+86-10-5873-4337
E-mail: Service.SH.Sales@dinkle.com.cn
Web: www.dinkle.com/cn/

Xi An Sales Office
TEL:+86-29-8885-8475
FAX:+86-21-3356-2500
E-mail: Service.SH.Sales@dinkle.com.cn
Web: www.dinkle.com/cn/

E–mail : service@dinkle.com
Web : www.dinkle.com

JUL./2022

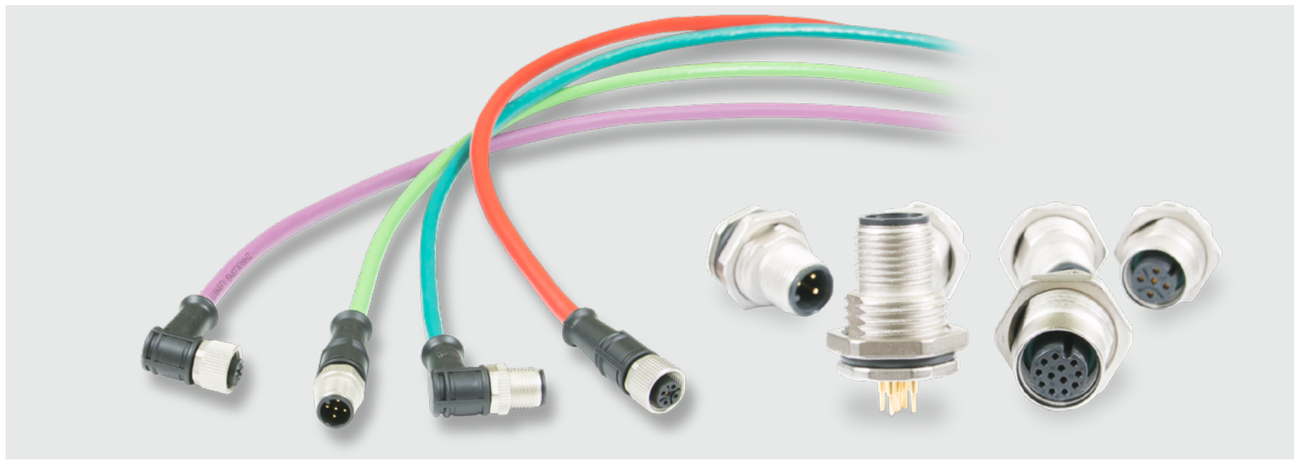
Circular Connector

M8/M12 Series

DINKLE DINKLE INTERNATIONAL CO., LTD.

DC–33.2

M8 / M12 Circular Connector



Delight Through Connections

Dinkle Group was established in 1983, and since that time has insisted on constant innovation and preserving an excellent craftsman's spirit. Starting with a core business of terminal block manufacturing, Dinkle has expanded to provide many outstanding products, deliver highly efficient global service, and promote close connections with end users.

Dinkle has accumulated extensive experience through close cooperation with global customers and application of advanced technologies in the market. Attentively listening to customers, correctly understanding their needs and accurately providing solutions are the key to Dinkle's success and creates end users' satisfaction. Customer support and trust increases our continuous passion and motivation to continue innovating.

Dinkle appreciates our role as an ideal win-win partner for your diverse needs; let us **Delight Through Connections!!**

Product Feature

- Fully gold-plated contacts
- Pre-assembled cables, fast connection
- IP68 protection - waterproof and dustproof
- Vibration and shock resistance
- Shielded option available, 360° protection
- International Specification
- RoHS and CE compliant

Effortless and Simple On-site Wiring Solution

With the growing industrial automation system, need a reliable power, signal and data transmission; a standardized connector but personalized cable and wiring solutions. Whether you need signal cables for sensor, or Ethernet cables for data communication, Dinkle is able to provide the best solution for every application.

Dinkle standard M12/M8 circular connector features high stability and tightness. Meeting IP67 rating and higher,our connectors allow reliable connection solution in extreme environments with humidity, large temperature changes, and vibrations. Dinkle provides single and double-ended straight and angled molded connector with PVC and PUR cables for quick field wiring and improves the overall productivity.

Product Advantage

Easy to Assemble; Universal Interface
- Fully gold-plated contacts, effectively transmit signal without interruption
- IP68 Rating

High Shock Resistance Design
- Meets UL2237/UL2238 safety test requirement
- Designed in accordance with IEC 61076-2-101/104/111, 360° fully shielded

Customized Service
- Multiple color options
- Cable lengths and prints can be customized, PUR and PVC cables available.

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M12 Molded Connector
General

Dinkle's M12 circular connector portfolio is designed in accordance with IEC 61076-2-101. These plastic-coated cable assemblies provide high structural stability and tightness, making the male and female connectors waterproof and dustproof (IP67 and above) when they are connected. The result is a reliable connection solution in environments with humidity, large temperature changes, and vibrations. In addition, the pin arrangement of the circular connector follows a coding protocol, facilitating integration into industrial control systems for sensors and actuators of various international brands. Dependable connectivity ensures higher equipment productivity and minimize maintenance time. For a wide variety of industrial applications, Dinkle provides high-quality PVC and PUR cables to meet your needs. PVC offers high rigidity and excellent resistance to common cleaning solvents, and it is a good choice for high temperature and high-pressure washing environments. PUR cables exhibit high tensile strength, tear resistance, bending resistance, and abrasion resistance, making them ideal for applications with bending and frequent movement such as robotic arms.

With the popularization of industrial communication, Dinkle has also introduced shielded cables applicable for fieldbuses. Our shielded cables have high noise immunity and effectively prevent interference caused by high electrical noise environments, ensuring communication reliability. Dinkle's family of circular connectors can withstand harsh manufacturing environments and deliver high-performance transmission of signals and data.

Mechanical Properties		Electrical Properties	
Min. Insertion/withdrawal cycles	100	Rated voltage / current (contacts)	250VAC / 4A (≤ 4 Pin)
Degree of protection	IP68		60VAC / 4A (5 Pin)
Ambient temperature (operation)	-40℃ ~ 80℃ (Fixed installation)		30VAC / 2A (8 Pin)
	-25℃ ~ 80℃ (Flexible installation)		30VAC / 1.5A (12 Pin)
Fasten torque	0.4 Nm	Insulation resistance	Min. 100MΩ
Material Properties		**Standards and Regulations**	
Contact / contact surface	Copper alloy / Gold plated	Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking
Contact carrier / overmolding	PUR / PUR		IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
O-Ring	NBR		
Cable gland material	Zinc die-cast, nickel-plated		
Shielding	Tinned copper shield, SF-UTP		IEC-60529: Degree of protection provided by enclosures (IP Code)
Cable	PUR (UL AWM 20549) PVC (UL AWM 2464)		
Flammability rating (UL94)	HB	Certification reference	UL 2238

Notice

The mechanical and electrical data performance can be ensured when the connector pair is correctly locked and fastened by specified torque. If the connector is not locked or exposed in contaminated enviroment, the connector must be sealed by the protective cover. Also, the influences from conductor, cable or PCB assembly must be taken into consideration.

M12 Molded Connector (Shielded) A-Code

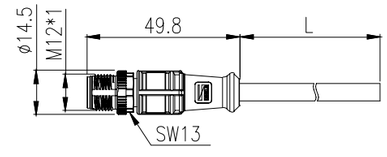
Coding and contacts	Code	A	A	A	A	A
	Contact	3	4	5	8	12
Rated voltage / current		250V / 4A	250V / 4A	60V / 4A	30V / 2A	30V / 1.5A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number				
Single-ended straight male	PVC	2	**251-A3000-25S020**	**251-A4000-25S020**	**251-A5000-25S020**	**251-A8000-25S020**	**251-AC000-25S020**
		5	**251-A3000-25S050**	**251-A4000-25S050**	**251-A5000-25S050**	**251-A8000-25S050**	**251-AC000-25S050**
		10	**251-A3000-25S100**	**251-A4000-25S100**	**251-A5000-25S100**	**251-A8000-25S100**	**251-AC000-25S100**
	PUR	2	**251-A3000-05S020**	**251-A4000-05S020**	**251-A5000-05S020**	**251-A8000-05S020**	**251-AC000-05S020**
		5	**251-A3000-05S050**	**251-A4000-05S050**	**251-A5000-05S050**	**251-A8000-05S050**	**251-AC000-05S050**
		10	**251-A3000-05S100**	**251-A4000-05S100**	**251-A5000-05S100**	**251-A8000-05S100**	**251-AC000-05S100**
Single-ended straight female	PVC	2	**252-A3000-25S020**	**252-A4000-25S020**	**252-A5000-25S020**	**252-A8000-25S020**	**252-AC000-25S020**
		5	**252-A3000-25S050**	**252-A4000-25S050**	**252-A5000-25S050**	**252-A8000-25S050**	**252-AC000-25S050**
		10	**252-A3000-25S100**	**252-A4000-25S100**	**252-A5000-25S100**	**252-A8000-25S100**	**252-AC000-25S100**
	PUR	2	**252-A3000-05S020**	**252-A4000-05S020**	**252-A5000-05S020**	**252-A8000-05S020**	**252-AC000-05S020**
		5	**252-A3000-05S050**	**252-A4000-05S050**	**252-A5000-05S050**	**252-A8000-05S050**	**252-AC000-05S050**
		10	**252-A3000-05S100**	**252-A4000-05S100**	**252-A5000-05S100**	**252-A8000-05S100**	**252-AC000-05S100**
Single-ended angled male	PVC	2	**253-A3000-25S020**	**253-A4000-25S020**	**253-A5000-25S020**	**253-A8000-25S020**	**253-AC000-25S020**
		5	**253-A3000-25S050**	**253-A4000-25S050**	**253-A5000-25S050**	**253-A8000-25S050**	**253-AC000-25S050**
		10	**253-A3000-25S100**	**253-A4000-25S100**	**253-A5000-25S100**	**253-A8000-25S100**	**253-AC000-25S100**
	PUR	2	**253-A3000-05S020**	**253-A4000-05S020**	**253-A5000-05S020**	**253-A8000-05S020**	**253-AC000-05S020**
		5	**253-A3000-05S050**	**253-A4000-05S050**	**253-A5000-05S050**	**253-A8000-05S050**	**253-AC000-05S050**
		10	**253-A3000-05S100**	**253-A4000-05S100**	**253-A5000-05S100**	**253-A8000-05S100**	**253-AC000-05S100**
Single-ended angled female	PVC	2	**254-A3000-25S020**	**254-A4000-25S020**	**254-A5000-25S020**	**254-A8000-25S020**	**254-AC000-25S020**
		5	**254-A3000-25S050**	**254-A4000-25S050**	**254-A5000-25S050**	**254-A8000-25S050**	**254-AC000-25S050**
		10	**254-A3000-25S100**	**254-A4000-25S100**	**254-A5000-25S100**	**254-A8000-25S100**	**254-AC000-25S100**
	PUR	2	**254-A3000-05S020**	**254-A4000-05S020**	**254-A5000-05S020**	**254-A8000-05S020**	**254-AC000-05S020**
		5	**254-A3000-05S050**	**254-A4000-05S050**	**254-A5000-05S050**	**254-A8000-05S050**	**254-AC000-05S050**
		10	**254-A3000-05S100**	**254-A4000-05S100**	**254-A5000-05S100**	**254-A8000-05S100**	**254-AC000-05S100**

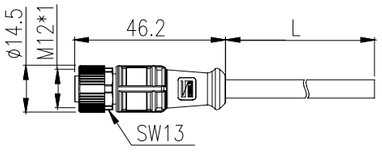
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

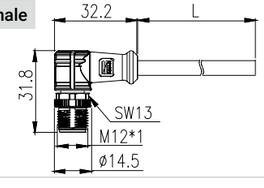
Single-ended straight male



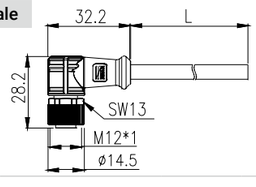
Single-ended straight female



Single-ended angled male



Single-ended angled female



M12 Molded Connector (Shielded) A-Code

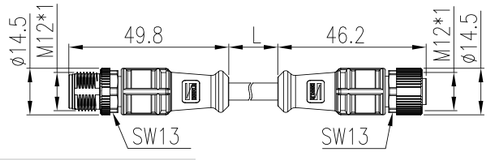
Coding and contacts	Code	A	A	A	A	A
	Contact	3	4	5	8	12
Rated voltage / current		250V / 4A	250V / 4A	60V / 4A	30V / 2A	30V / 1.5A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number				
Straight male to straight female	PVC	0.6	**256-A3000-25SL60**	**256-A4000-25SL60**	**256-A5000-25SL60**	**256-A8000-25SL60**	**256-AC000-25SL60**
		1.5	**256-A3000-25S015**	**256-A4000-25S015**	**256-A5000-25S015**	**256-A8000-25S015**	**256-AC000-25S015**
		3	**256-A3000-25S030**	**256-A4000-25S030**	**256-A5000-25S030**	**256-A8000-25S030**	**256-AC000-25S030**
	PUR	0.6	**256-A3000-05SL60**	**256-A4000-05SL60**	**256-A5000-05SL60**	**256-A8000-05SL60**	**256-AC000-05SL60**
		1.5	**256-A3000-05S015**	**256-A4000-05S015**	**256-A5000-05S015**	**256-A8000-05S015**	**256-AC000-05S015**
		3	**256-A3000-05S030**	**256-A4000-05S030**	**256-A5000-05S030**	**256-A8000-05S030**	**256-AC000-05S030**
Straight male to straight male	PVC	0.6	257-A3000-25SL60	257-A4000-25SL60	257-A5000-25SL60	257-A8000-25SL60	257-AC000-25SL60
		1.5	257-A3000-25S015	257-A4000-25S015	257-A5000-25S015	257-A8000-25S015	257-AC000-25S015
		3	257-A3000-25S030	257-A4000-25S030	257-A5000-25S030	257-A8000-25S030	257-AC000-25S030
	PUR	0.6	257-A3000-05SL60	257-A4000-05SL60	257-A5000-05SL60	257-A8000-05SL60	257-AC000-05SL60
		1.5	257-A3000-05S015	257-A4000-05S015	257-A5000-05S015	257-A8000-05S015	257-AC000-05S015
		3	257-A3000-05S030	257-A4000-05S030	257-A5000-05S030	257-A8000-05S030	257-AC000-05S030
Angled male to angled male	PVC	0.6	260-A3000-25SL60	260-A4000-25SL60	260-A5000-25SL60	260-A8000-25SL60	260-AC000-25SL60
		1.5	260-A3000-25S015	260-A4000-25S015	260-A5000-25S015	260-A8000-25S015	260-AC000-25S015
		3	260-A3000-25S030	260-A4000-25S030	260-A5000-25S030	260-A8000-25S030	260-AC000-25S030
	PUR	0.6	260-A3000-05SL60	260-A4000-05SL60	260-A5000-05SL60	260-A8000-05SL60	260-AC000-05SL60
		1.5	260-A3000-05S015	260-A4000-05S015	260-A5000-05S015	260-A8000-05S015	260-AC000-05S015
		3	260-A3000-05S030	260-A4000-05S030	260-A5000-05S030	260-A8000-05S030	260-AC000-05S030
Straight male to angled male	PVC	0.6	263-A3000-25SL60	263-A4000-25SL60	263-A5000-25SL60	263-A8000-25SL60	263-AC000-25SL60
		1.5	263-A3000-25S015	263-A4000-25S015	263-A5000-25S015	263-A8000-25S015	263-AC000-25S015
		3	263-A3000-25S030	263-A4000-25S030	263-A5000-25S030	263-A8000-25S030	263-AC000-25S030
	PUR	0.6	263-A3000-05SL60	263-A4000-05SL60	263-A5000-05SL60	263-A8000-05SL60	263-AC000-05SL60
		1.5	263-A3000-05S015	263-A4000-05S015	263-A5000-05S015	263-A8000-05S015	263-AC000-05S015
		3	263-A3000-05S030	263-A4000-05S030	263-A5000-05S030	263-A8000-05S030	263-AC000-05S030

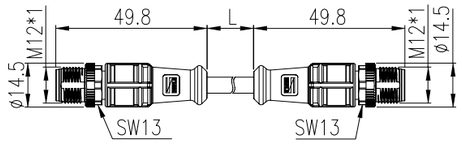
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

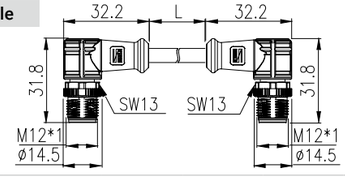
Straight male to straight female



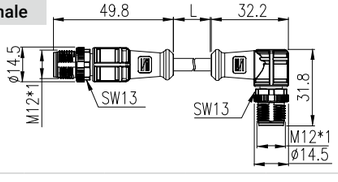
Straight male to straight male



Angled male to angled male



Straight male to angled male



M12 Molded Connector (Shielded) B-Code & D-Code

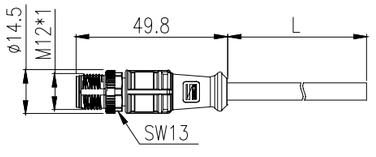
Coding and contacts	Code	B	B	B	D
	Contact	3	4	5	4
Rated voltage / current		250V / 4A	250V / 4A	60V / 4A	250V / 4A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number			
Single-ended straight male	PVC	2	**251-B3000-25S020**	**251-B4000-25S020**	**251-B5000-25S020**	**251-D4000-25S020**
		5	**251-B3000-25S050**	**251-B4000-25S050**	**251-B5000-25S050**	**251-D4000-25S050**
		10	**251-B3000-25S100**	**251-B4000-25S100**	**251-B5000-25S100**	**251-D4000-25S100**
	PUR	2	**251-B3000-05S020**	**251-B4000-05S020**	**251-B5000-05S020**	**251-D4000-05S020**
		5	**251-B3000-05S050**	**251-B4000-05S050**	**251-B5000-05S050**	**251-D4000-05S050**
		10	**251-B3000-05S100**	**251-B4000-05S100**	**251-B5000-05S100**	**251-D4000-05S100**
Single-ended straight female	PVC	2	**252-B3000-25S020**	**252-B4000-25S020**	**252-B5000-25S020**	**252-D4000-25S020**
		5	**252-B3000-25S050**	**252-B4000-25S050**	**252-B5000-25S050**	**252-D4000-25S050**
		10	**252-B3000-25S100**	**252-B4000-25S100**	**252-B5000-25S100**	**252-D4000-25S100**
	PUR	2	**252-B3000-05S020**	**252-B4000-05S020**	**252-B5000-05S020**	**252-D4000-05S020**
		5	**252-B3000-05S050**	**252-B4000-05S050**	**252-B5000-05S050**	**252-D4000-05S050**
		10	**252-B3000-05S100**	**252-B4000-05S100**	**252-B5000-05S100**	**252-D4000-05S100**
Single-ended angled male	PVC	2	**253-B3000-25S020**	**253-B4000-25S020**	**253-B5000-25S020**	**253-D4000-25S020**
		5	**253-B3000-25S050**	**253-B4000-25S050**	**253-B5000-25S050**	**253-D4000-25S050**
		10	**253-B3000-25S100**	**253-B4000-25S100**	**253-B5000-25S100**	**253-D4000-25S100**
	PUR	2	**253-B3000-05S020**	**253-B4000-05S020**	**253-B5000-05S020**	**253-D4000-05S020**
		5	**253-B3000-05S050**	**253-B4000-05S050**	**253-B5000-05S050**	**253-D4000-05S050**
		10	**253-B3000-05S100**	**253-B4000-05S100**	**253-B5000-05S100**	**253-D4000-05S100**
Single-ended angled female	PVC	2	**254-B3000-25S020**	**254-B4000-25S020**	**254-B5000-25S020**	**254-D4000-25S020**
		5	**254-B3000-25S050**	**254-B4000-25S050**	**254-B5000-25S050**	**254-D4000-25S050**
		10	**254-B3000-25S100**	**254-B4000-25S100**	**254-B5000-25S100**	**254-D4000-25S100**
	PUR	2	**254-B3000-05S020**	**254-B4000-05S020**	**254-B5000-05S020**	**254-D4000-05S020**
		5	**254-B3000-05S050**	**254-B4000-05S050**	**254-B5000-05S050**	**254-D4000-05S050**
		10	**254-B3000-05S100**	**254-B4000-05S100**	**254-B5000-05S100**	**254-D4000-05S100**

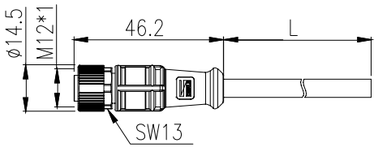
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

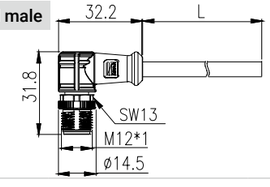
Single-ended straight male



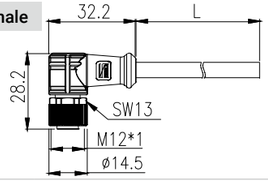
Single-ended straight female



Single-ended angled male

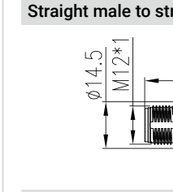


Single-ended angled female



M12 Molded Connector (Shielded) B-Code & D-Code

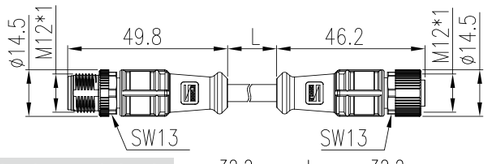
Coding and contacts	Code	B	B	B	D
	Contact	3	4	5	4
Rated voltage / current		250V / 4A	250V / 4A	60V / 4A	250V / 4A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number			
Straight male to straight female 	PVC	0.6	**256-B3000-25SL60**	**256-B4000-25SL60**	**256-B5000-25SL60**	**256-D4000-25SL60**
		1.5	**256-B3000-25S015**	**256-B4000-25S015**	**256-B5000-25S015**	**256-D4000-25S015**
		3	**256-B3000-25S030**	**256-B4000-25S030**	**256-B5000-25S030**	**256-D4000-25S030**
	PUR	0.6	**256-B3000-05SL60**	**256-B4000-05SL60**	**256-B5000-05SL60**	**256-D4000-05SL60**
		1.5	**256-B3000-05S015**	**256-B4000-05S015**	**256-B5000-05S015**	**256-D4000-05S015**
		3	**256-B3000-05S030**	**256-B4000-05S030**	**256-B5000-05S030**	**256-D4000-05S030**
Straight male to straight male	PVC	0.6	257-B3000-25SL60	257-B4000-25SL60	257-B5000-25SL60	257-D4000-25SL60
		1.5	257-B3000-25S015	257-B4000-25S015	257-B5000-25S015	257-D4000-25S015
		3	257-B3000-25S030	257-B4000-25S030	257-B5000-25S030	257-D4000-25S030
	PUR	0.6	257-B3000-05SL60	257-B4000-05SL60	257-B5000-05SL60	257-D4000-05SL60
		1.5	257-B3000-05S015	257-B4000-05S015	257-B5000-05S015	257-D4000-05S015
		3	257-B3000-05S030	257-B4000-05S030	257-B5000-05S030	257-D4000-05S030
Angled male to angled male 	PVC	0.6	260-B3000-25SL60	260-B4000-25SL60	260-B5000-25SL60	260-D4000-25SL60
		1.5	260-B3000-25S015	260-B4000-25S015	260-B5000-25S015	260-D4000-25S015
		3	260-B3000-25S030	260-B4000-25S030	260-B5000-25S030	260-D4000-25S030
	PUR	0.6	260-B3000-05SL60	260-B4000-05SL60	260-B5000-05SL60	260-D4000-05SL60
		1.5	260-B3000-05S015	260-B4000-05S015	260-B5000-05S015	260-D4000-05S015
		3	260-B3000-05S030	260-B4000-05S030	260-B5000-05S030	260-D4000-05S030
Straight male to angled male 	PVC	0.6	263-B3000-25SL60	263-B4000-25SL60	263-B5000-25SL60	263-D4000-25SL60
		1.5	263-B3000-25S015	263-B4000-25S015	263-B5000-25S015	263-D4000-25S015
		3	263-B3000-25S030	263-B4000-25S030	263-B5000-25S030	263-D4000-25S030
	PUR	0.6	263-B3000-05SL60	263-B4000-05SL60	263-B5000-05SL60	263-D4000-05SL60
		1.5	263-B3000-05S015	263-B4000-05S015	263-B5000-05S015	263-D4000-05S015
		3	263-B3000-05S030	263-B4000-05S030	263-B5000-05S030	263-D4000-05S030

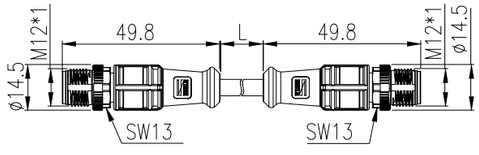
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

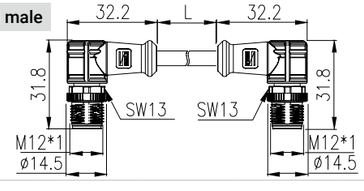
Straight male to straight female



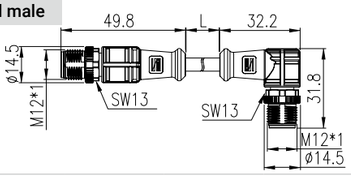
Straight male to straight male



Angled male to angled male



Straight male to angled male



M12 Molded Connector A-Code

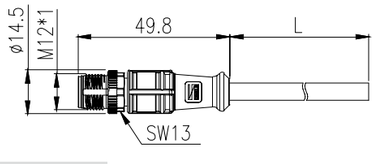
Coding and contacts	Code	A	A	A	A	A
	Contact	3	4	5	8	12
Rated voltage / current		250V / 4A	250V / 4A	60V / 4A	30V / 2A	30V / 1.5A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number				
Single-ended straight male 	PVC	2	**201-A3000-20S020**	**201-A4000-20S020**	**201-A5000-20S020**	**201-A8000-20S020**	**201-AC000-20S020**
		5	**201-A3000-20S050**	**201-A4000-20S050**	**201-A5000-20S050**	**201-A8000-20S050**	**201-AC000-20S050**
		10	**201-A3000-20S100**	**201-A4000-20S100**	**201-A5000-20S100**	**201-A8000-20S100**	**201-AC000-20S100**
	PUR	2	**201-A3000-00S020**	**201-A4000-00S020**	**201-A5000-00S020**	**201-A8000-00S020**	**201-AC000-00S020**
		5	**201-A3000-00S050**	**201-A4000-00S050**	**201-A5000-00S050**	**201-A8000-00S050**	**201-AC000-00S050**
		10	**201-A3000-00S100**	**201-A4000-00S100**	**201-A5000-00S100**	**201-A8000-00S100**	**201-AC000-00S100**
Single-ended straight female	PVC	2	**202-A3000-20S020**	**202-A4000-20S020**	**202-A5000-20S020**	**202-A8000-20S020**	**202-AC000-20S020**
		5	**202-A3000-20S050**	**202-A4000-20S050**	**202-A5000-20S050**	**202-A8000-20S050**	**202-AC000-20S050**
		10	**202-A3000-20S100**	**202-A4000-20S100**	**202-A5000-20S100**	**202-A8000-20S100**	**202-AC000-20S100**
	PUR	2	**202-A3000-00S020**	**202-A4000-00S020**	**202-A5000-00S020**	**202-A8000-00S020**	**202-AC000-00S020**
		5	**202-A3000-00S050**	**202-A4000-00S050**	**202-A5000-00S050**	**202-A8000-00S050**	**202-AC000-00S050**
		10	**202-A3000-00S100**	**202-A4000-00S100**	**202-A5000-00S100**	**202-A8000-00S100**	**202-AC000-00S100**
Single-ended angled male 	PVC	2	**203-A3000-20S020**	**203-A4000-20S020**	**203-A5000-20S020**	**203-A8000-20S020**	**203-AC000-20S020**
		5	**203-A3000-20S050**	**203-A4000-20S050**	**203-A5000-20S050**	**203-A8000-20S050**	**203-AC000-20S050**
		10	**203-A3000-20S100**	**203-A4000-20S100**	**203-A5000-20S100**	**203-A8000-20S100**	**203-AC000-20S100**
	PUR	2	**203-A3000-00S020**	**203-A4000-00S020**	**203-A5000-00S020**	**203-A8000-00S020**	**203-AC000-00S020**
		5	**203-A3000-00S050**	**203-A4000-00S050**	**203-A5000-00S050**	**203-A8000-00S050**	**203-AC000-00S050**
		10	**203-A3000-00S100**	**203-A4000-00S100**	**203-A5000-00S100**	**203-A8000-00S100**	**203-AC000-00S100**
Single-ended female angled 	PVC	2	**204-A3000-20S020**	**204-A4000-20S020**	**204-A5000-20S020**	**204-A8000-20S020**	**204-AC000-20S020**
		5	**204-A3000-20S050**	**204-A4000-20S050**	**204-A5000-20S050**	**204-A8000-20S050**	**204-AC000-20S050**
		10	**204-A3000-20S100**	**204-A4000-20S100**	**204-A5000-20S100**	**204-A8000-20S100**	**204-AC000-20S100**
	PUR	2	**204-A3000-00S020**	**204-A4000-00S020**	**204-A5000-00S020**	**204-A8000-00S020**	**204-AC000-00S020**
		5	**204-A3000-00S050**	**204-A4000-00S050**	**204-A5000-00S050**	**204-A8000-00S050**	**204-AC000-00S050**
		10	**204-A3000-00S100**	**204-A4000-00S100**	**204-A5000-00S100**	**204-A8000-00S100**	**204-AC000-00S100**

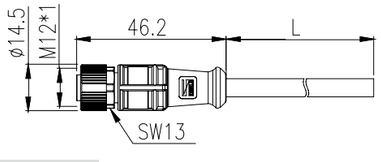
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

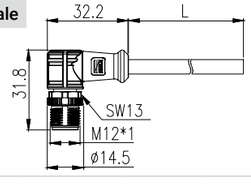
Single-ended straight male



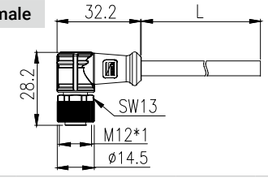
Single-ended straight female



Single-ended angled male



Single-ended angled female



M12 Molded Connector A-Code

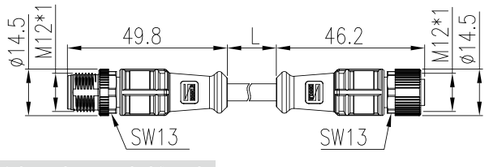
Coding and contacts	Code	A	A	A	A	A
	Contact	3	4	5	8	12
Rated voltage / current		250V / 4A	250V / 4A	60V / 4A	30V / 2A	30V / 1.5A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number				
Straight male to straight female 	PVC	0.6	**206-A3000-20SL60**	**206-A4000-20SL60**	**206-A5000-20SL60**	**206-A8000-20SL60**	**206-AC000-20SL60**
		1.5	**206-A3000-20S015**	**206-A4000-20S015**	**206-A5000-20S015**	**206-A8000-20S015**	**206-AC000-20S015**
		3	**206-A3000-20S030**	**206-A4000-20S030**	**206-A5000-20S030**	**206-A8000-20S030**	**206-AC000-20S030**
	PUR	0.6	**206-A3000-00SL60**	**206-A4000-00SL60**	**206-A5000-00SL60**	**206-A8000-00SL60**	**206-AC000-00SL60**
		1.5	**206-A3000-00S015**	**206-A4000-00S015**	**206-A5000-00S015**	**206-A8000-00S015**	**206-AC000-00S015**
		3	**206-A3000-00S030**	**206-A4000-00S030**	**206-A5000-00S030**	**206-A8000-00S030**	**206-AC000-00S030**
Angled male to angled female 	PVC	0.6	**209-A3000-20SL60**	**209-A4000-20SL60**	**209-A5000-20SL60**	**209-A8000-20SL60**	**209-AC000-20SL60**
		1.5	**209-A3000-20S015**	**209-A4000-20S015**	**209-A5000-20S015**	**209-A8000-20S015**	**209-AC000-20S015**
		3	**209-A3000-20S030**	**209-A4000-20S030**	**209-A5000-20S030**	**209-A8000-20S030**	**209-AC000-20S030**
	PUR	0.6	**209-A3000-00SL60**	**209-A4000-00SL60**	**209-A5000-00SL60**	**209-A8000-00SL60**	**209-AC000-00SL60**
		1.5	**209-A3000-00S015**	**209-A4000-00S015**	**209-A5000-00S015**	**209-A8000-00S015**	**209-AC000-00S015**
		3	**209-A3000-00S030**	**209-A4000-00S030**	**209-A5000-00S030**	**209-A8000-00S030**	**209-AC000-00S030**
Straight male to angled female 	PVC	0.6	**212-A3000-20SL60**	**212-A4000-20SL60**	**212-A5000-20SL60**	**212-A8000-20SL60**	**212-AC000-20SL60**
		1.5	**212-A3000-20S015**	**212-A4000-20S015**	**212-A5000-20S015**	**212-A8000-20S015**	**212-AC000-20S015**
		3	**212-A3000-20S030**	**212-A4000-20S030**	**212-A5000-20S030**	**212-A8000-20S030**	**212-AC000-20S030**
	PUR	0.6	**212-A3000-00SL60**	**212-A4000-00SL60**	**212-A5000-00SL60**	**212-A8000-00SL60**	**212-AC000-00SL60**
		1.5	**212-A3000-00S015**	**212-A4000-00S015**	**212-A5000-00S015**	**212-A8000-00S015**	**212-AC000-00S015**
		3	**212-A3000-00S030**	**212-A4000-00S030**	**212-A5000-00S030**	**212-A8000-00S030**	**212-AC000-00S030**
Angled male to straight female 	PVC	0.6	**214-A3000-20SL60**	**214-A4000-20SL60**	**214-A5000-20SL60**	**214-A8000-20SL60**	**214-AC000-20SL60**
		1.5	**214-A3000-20S015**	**214-A4000-20S015**	**214-A5000-20S015**	**214-A8000-20S015**	**214-AC000-20S015**
		3	**214-A3000-20S030**	**214-A4000-20S030**	**214-A5000-20S030**	**214-A8000-20S030**	**214-AC000-20S030**
	PUR	0.6	**214-A3000-00SL60**	**214-A4000-00SL60**	**214-A5000-00SL60**	**214-A8000-00SL60**	**214-AC000-00SL60**
		1.5	**214-A3000-00S015**	**214-A4000-00S015**	**214-A5000-00S015**	**214-A8000-00S015**	**214-AC000-00S015**
		3	**214-A3000-00S030**	**214-A4000-00S030**	**214-A5000-00S030**	**214-A8000-00S030**	**214-AC000-00S030**

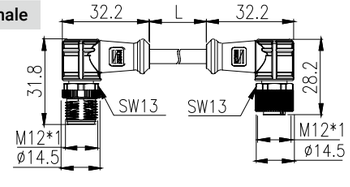
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

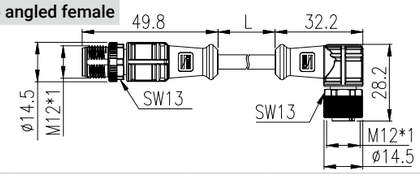
Straight male to straight female



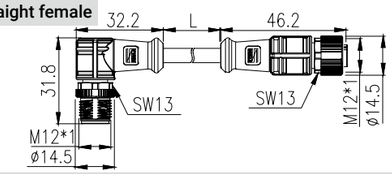
Angled male to angled male



Straight male to angled female



Angled male to straight female



M12 Molded Connector B-Code & D-Code

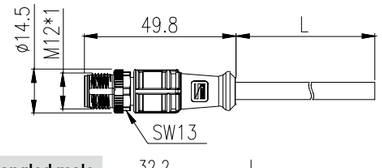
Coding and contacts	Code	B	B	B	D
	Contact	3	4	5	4
Rated voltage / current		250V / 4A	250V / 4A	60V / 4A	250V / 4A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number			
Single-ended straight male 	PVC	2	**201-B3000-20S020**	**201-B4000-20S020**	**201-B5000-20S020**	**201-D4000-20S020**
		5	**201-B3000-20S050**	**201-B4000-20S050**	**201-B5000-20S050**	**201-D4000-20S050**
		10	**201-B3000-20S100**	**201-B4000-20S100**	**201-B5000-20S100**	**201-D4000-20S100**
	PUR	2	**201-B3000-00S020**	**201-B4000-00S020**	**201-B5000-00S020**	**201-D4000-00S020**
		5	**201-B3000-00S050**	**201-B4000-00S050**	**201-B5000-00S050**	**201-D4000-00S050**
		10	**201-B3000-00S100**	**201-B4000-00S100**	**201-B5000-00S100**	**201-D4000-00S100**
Single-ended straight female 	PVC	2	**202-B3000-20S020**	**202-B4000-20S020**	**202-B5000-20S020**	**202-D4000-20S020**
		5	**202-B3000-20S050**	**202-B4000-20S050**	**202-B5000-20S050**	**202-D4000-20S050**
		10	**202-B3000-20S100**	**202-B4000-20S100**	**202-B5000-20S100**	**202-D4000-20S100**
	PUR	2	**202-B3000-00S020**	**202-B4000-00S020**	**202-B5000-00S020**	**202-D4000-00S020**
		5	**202-B3000-00S050**	**202-B4000-00S050**	**202-B5000-00S050**	**202-D4000-00S050**
		10	**202-B3000-00S100**	**202-B4000-00S100**	**202-B5000-00S100**	**202-D4000-00S100**
Single-ended angled male 	PVC	2	**203-B3000-20S020**	**203-B4000-20S020**	**203-B5000-20S020**	**203-D4000-20S020**
		5	**203-B3000-20S050**	**203-B4000-20S050**	**203-B5000-20S050**	**203-D4000-20S050**
		10	**203-B3000-20S100**	**203-B4000-20S100**	**203-B5000-20S100**	**203-D4000-20S100**
	PUR	2	**203-B3000-00S020**	**203-B4000-00S020**	**203-B5000-00S020**	**203-D4000-00S020**
		5	**203-B3000-00S050**	**203-B4000-00S050**	**203-B5000-00S050**	**203-D4000-00S050**
		10	**203-B3000-00S100**	**203-B4000-00S100**	**203-B5000-00S100**	**203-D4000-00S100**
Single-ended angled female 	PVC	2	**204-B3000-20S020**	**204-B4000-20S020**	**204-B5000-20S020**	**204-D4000-20S020**
		5	**204-B3000-20S050**	**204-B4000-20S050**	**204-B5000-20S050**	**204-D4000-20S050**
		10	**204-B3000-20S100**	**204-B4000-20S100**	**204-B5000-20S100**	**204-D4000-20S100**
	PUR	2	**204-B3000-00S020**	**204-B4000-00S020**	**204-B5000-00S020**	**204-D4000-00S020**
		5	**204-B3000-00S050**	**204-B4000-00S050**	**204-B5000-00S050**	**204-D4000-00S050**
		10	**204-B3000-00S100**	**204-B4000-00S100**	**204-B5000-00S100**	**204-D4000-00S100**

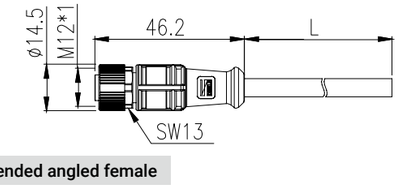
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

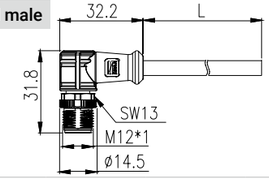
Single-ended straight male



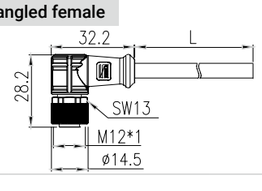
Single-ended straight female



Single-ended angled male



Single-ended angled female



M12 Molded Connector B-Code & D-Code

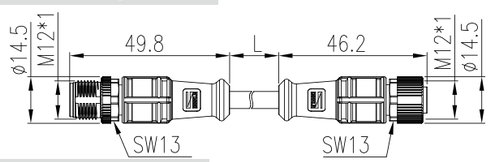
Coding and contacts	Code	B	B	B	D
	Contact	3	4	5	4
Rated voltage / current		250V / 4A	250V / 4A	60V / 4A	250V / 4A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number			
Straight male to straight female 	PVC	0.6	206-B3000-20SL60	206-B4000-20SL60	206-B5000-20SL60	206-D4000-20SL60
		1.5	206-B3000-20S015	206-B4000-20S015	206-B5000-20S015	206-D4000-20S015
		3	206-B3000-20S030	206-B4000-20S030	206-B5000-20S030	206-D4000-20S030
	PUR	0.6	206-B3000-00SL60	206-B4000-00SL60	206-B5000-00SL60	206-D4000-00SL60
		1.5	206-B3000-00S015	206-B4000-00S015	206-B5000-00S015	206-D4000-00S015
		3	206-B3000-00S030	206-B4000-00S030	206-B5000-00S030	206-D4000-00S030
Angled male to angled female 	PVC	0.6	209-B3000-20SL60	209-B4000-20SL60	209-B5000-20SL60	209-D4000-20SL60
		1.5	209-B3000-20S015	209-B4000-20S015	209-B5000-20S015	209-D4000-20S015
		3	209-B3000-20S030	209-B4000-20S030	209-B5000-20S030	209-D4000-20S030
	PUR	0.6	209-B3000-00SL60	209-B4000-00SL60	209-B5000-00SL60	209-D4000-00SL60
		1.5	209-B3000-00S015	209-B4000-00S015	209-B5000-00S015	209-D4000-00S015
		3	209-B3000-00S030	209-B4000-00S030	209-B5000-00S030	209-D4000-00S030
Straight male to angled female 	PVC	0.6	212-B3000-20SL60	212-B4000-20SL60	212-B5000-20SL60	212-D4000-20SL60
		1.5	212-B3000-20S015	212-B4000-20S015	212-B5000-20S015	212-D4000-20S015
		3	212-B3000-20S030	212-B4000-20S030	212-B5000-20S030	212-D4000-20S030
	PUR	0.6	212-B3000-00SL60	212-B4000-00SL60	212-B5000-00SL60	212-D4000-00SL60
		1.5	212-B3000-00S015	212-B4000-00S015	212-B5000-00S015	212-D4000-00S015
		3	212-B3000-00S030	212-B4000-00S030	212-B5000-00S030	212-D4000-00S030
Angled male to straight female 	PVC	0.6	214-B3000-20SL60	214-B4000-20SL60	214-B5000-20SL60	214-D4000-20SL60
		1.5	214-B3000-20S015	214-B4000-20S015	214-B5000-20S015	214-D4000-20S015
		3	214-B3000-20S030	214-B4000-20S030	214-B5000-20S030	214-D4000-20S030
	PUR	0.6	214-B3000-00SL60	214-B4000-00SL60	214-B5000-00SL60	214-D4000-00SL60
		1.5	214-B3000-00S015	214-B4000-00S015	214-B5000-00S015	214-D4000-00S015
		3	214-B3000-00S030	214-B4000-00S030	214-B5000-00S030	214-D4000-00S030

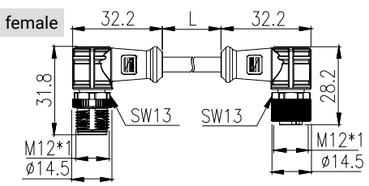
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

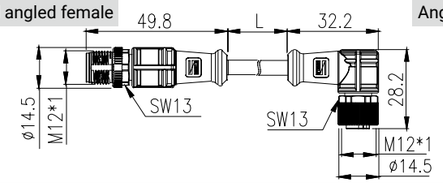
Straight male to straight female



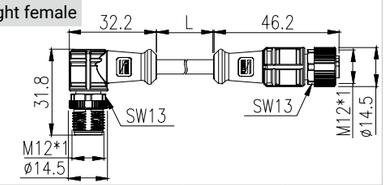
Angled male and angled female



Straight male and angled female



Angled male and straight female



M12 Molded Y-Splitter Connector A-Code

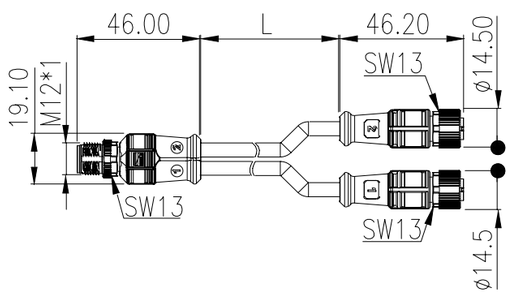
DINKLE Y-Splitter connectors are ideal for space-constrained industrial environments, offering great flexibility. The connector adopts an unshielded A-Code design, which can power two sensor/ actuators simultaneously, which greatly simplifies the wiring time and reduces the installation costs while avoiding potential errors. The plastic-coated cable assemblies provide high structural stability and tightness, making connectors waterproof and dustproof with IP67 protection. This provides a rugged and reliable connection solution in harsh environments.

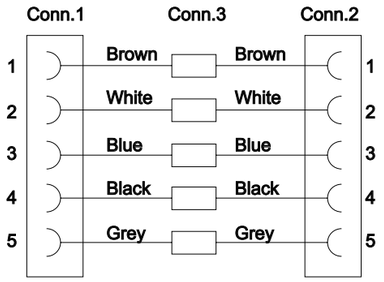
Coding and contacts	Code	A
	Contact	5
Rated voltage / current		60V / 4A
Contact arrangement		Plug / Socket

Connector style	Cable	Part number
1 x Straight male to 2 x straight female 	PUR	222-A5530-00SL15
	PVC	222-A5530-20SL15

The cable length can be customized. For more details, please contact Dinkle

1 x Straight male to 2 x straight female



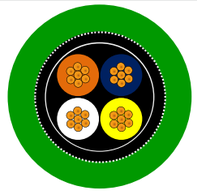


M12 Molded Connector
Industrial Ethernet

Dinkle provides M12 plastic-coated wire cable assemblies for fieldbus (CC-Link, DeviceNet / CANopen, PROFIBUS DP) and network communication (PROFINET, Ethernet CAT5e) protocols in industrial communication, with various connector designs and cable lengths. These cables and connectors meet the growing demand for sensors and actuators in industrial automation systems and ensure the integrity of network communication in the industrial environment. In addition to complying with various industrial communication protocols, our high-quality industrial network cables also incorporate shielding for best transmission performance and resistance to EMI. They provide IP68 protection, and are built to endure chemicals, shock, and vibration. These products support the Industry 4.0 trend and help users create solutions for the large amount of high-speed data transmission required in the complex automation process.

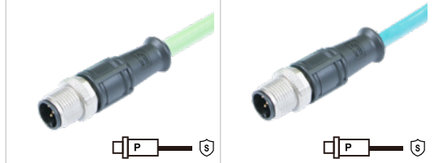
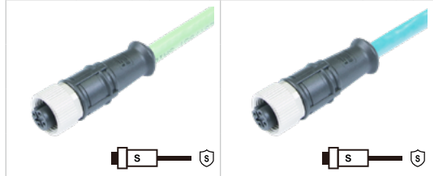
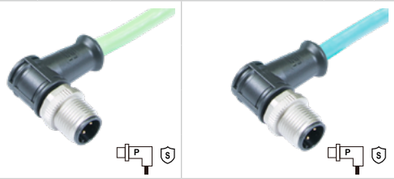
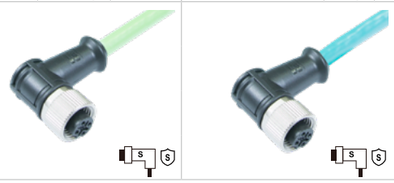
Protocol		Code	Contact	Application	Data transfer rate	Cable profile	Connector Pinout
Networks	PROFINET CAT5	D	4	Automated control	100 Mbps		Pin / Conductor color / Signal 1 YE TD+ 2 WH RD+ 3 OG TD- 4 BU RD-
	Ethernet CAT5	D	4	Automated control	Up to 100 Mbps		Pin / Conductor color / Signal 1 WH/OG TD+ 2 WH/GN RD+ 3 OG TD- 4 GN RD- Shield on housing
	Ethernet CAT5e	A	8	All industrial environment	Up up to 1 Gbps		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-
Fieldbuses	CC-Link	A	4	Field of process	Up to 10 Mbps		Pin / Conductor color / Signal 1 Shield SLD 2 WH DS 3 YE DG 4 BU DA
	DeviceNet CANopen	A	5	Automation and device control	DeviceNet: Up to 500kbaud Canopen: 10 kbaud to 1 Mbaud		Pin / Conductor color / Signal 1 Shield Drain 2 RD V+ 3 BK V- 4 WH CAN_H 5 BU CAN_L Shield on housing
	PROFIBUS DP	B	5	Distributed I/O device	Up to 12 Mbps		Pin / Conductor color / Signal 1 - 2 GN Acable 3 - 4 RD Bcable 5 Flexible filler Shield on housing

M12 Molded Connector (Shielded) - Network(Profinet, Ethercat, Ethernet)

Protocols	PROFINET	Ethernet	Ethernet
		 Ethernet	 Ethernet
Cross-section			
Communication	PROFINET (100 Mbps)	Ethernet CAT5 (100 Mbps)	Ethernet CAT5e (1 Gbps)
Coding	D	D	A
Number of cores	4	4	8
Outer sheath, material	PVC	PUR	PUR
External sheath, color	Green	Blue	Blue
External cable diameter	6.5 ± 0.2 mm	6.0 ± 0.25 mm	6.0 ± 0.25 mm
Ambient temperature (operation)	-40 °C ~ +80 °C	-40 °C ~ +80 °C	-40 °C ~ +80 °C
Shielding	Al-Foil, tin-plated copper braided shield	Al-mylar, tinned copper braided shield	Al-mylar, tinned copper braided shield
Conductor material	Stranded tinned copper	Stranded bare copper	Stranded bare copper
AWG signal line	22 AWG	26 AWG	26 AWG
Wire colors	White, Yellow, Blue, Orange	White/Orange, Orange, White/ Green, Green	White/Blue, Blue, White/Orange, Orange, White/Green, Green, White/Brown, Brown
Core diameter including insulation	1.5 ± 0.1 mm	0.9 ± 0.05 mm	0.92 ± 0.05 mm
Conductor resistance	59.4 Ω / km (@20 °C)	< 148 Ω / km	< 148 Ω / km
Standards / Regulations	IEC 61156-6	ISO / IEC 11801	ISO / IEC 11801
	ISO / IEC 11801	UL 1581	UL 1581
	UL 758	UL 758	UL 758
UL AWM style	21694	20963	20963
Flammability test	IEC 60332-1, FT2	IEC 60332-1, FT2	IEC 60332-1, FT2

M12 Molded Connector (Shielded) - Network(Profinet, Ethercat, Ethernet)

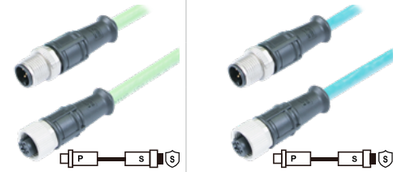
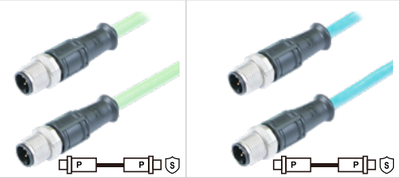
Coding and contacts	Code	D	D	A
	Contact	4	4	8
Rated voltage / current		250V / 4A	30V / 4A	30V / 2A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket
Cable profile				
Protocols (Data transfer rate)		PROFINET CAT5 (100Mbps)	Ethernet CAT5 (100Mbps)	Ethernet CAT5e (1Gbps)

Connector style	Cable	Length(m)	Part number		
Single-ended straight male	PUR	2	-	251-D4000-0ES020	251-A8000-0ES020
PROFINET CAT5 (100Mbps) / Ethernet CAT5 (100Mbps) Ethernet CAT5e (1Gbps)	PUR	5	-	251-D4000-0ES050	251-A8000-0ES050
	PUR	10	-	251-D4000-0ES100	251-A8000-0ES100
	PVC	2	251-D4000-2PS020	-	-
	PVC	5	251-D4000-2PS050	-	-
	PVC	10	251-D4000-2PS100	-	-
Single-ended straight female	PUR	2	-	252-D4000-0ES020	252-A8000-0ES020
PROFINET CAT5 (100Mbps) / Ethernet CAT5 (100Mbps) Ethernet CAT5e (1Gbps)	PUR	5	-	252-D4000-0ES050	252-A8000-0ES050
	PUR	10	-	252-D4000-0ES100	252-A8000-0ES100
	PVC	2	252-D4000-2PS020	-	-
	PVC	5	252-D4000-2PS050	-	-
	PVC	10	252-D4000-2PS100	-	-
Single-ended angled male	PUR	2	-	253-D4000-0ES020	253-A8000-0ES020
PROFINET CAT5 (100Mbps) / Ethernet CAT5 (100Mbps) Ethernet CAT5e (1Gbps)	PUR	5	-	253-D4000-0ES050	253-A8000-0ES050
	PUR	10	-	253-D4000-0ES100	253-A8000-0ES100
	PVC	2	253-D4000-2PS020	-	-
	PVC	5	253-D4000-2PS050	-	-
	PVC	10	253-D4000-2PS100	-	-
Single-ended angled female	PUR	2	-	254-D4000-0ES020	254-A8000-0ES020
PROFINET CAT5 (100Mbps) / Ethernet CAT5 (100Mbps) Ethernet CAT5e (1Gbps)	PUR	5	-	254-D4000-0ES050	254-A8000-0ES050
	PUR	10	-	254-D4000-0ES100	254-A8000-0ES100
	PVC	2	254-D4000-2PS020	-	-
	PVC	5	254-D4000-2PS050	-	-
	PVC	10	254-D4000-2PS100	-	-

The cable length can be customized. For more details, please contact Dinkle

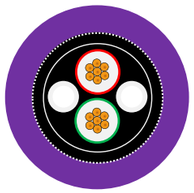
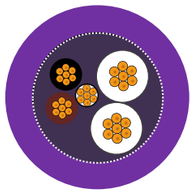
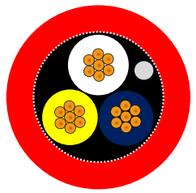
M12 Molded Connector (Shielded) - Network(Profinet, Ethercat, Ethernet)

Coding and contacts	Code	D	D	A
	Contact	4	4	8
Rated voltage / current		250V / 4A	30V / 4A	30V / 2A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket
Cable profile				
Protocols (Data transfer rate)		PROFINET CAT5 (100Mbps)	Ethernet CAT5 (100Mbps)	Ethernet CAT5e (1Gbps)

Connector style	Cable	Length(m)	Part number		
Straight male to straight female	PUR	0.6	-	256-D4000-0ESL60	256-A8000-0ESL60
PROFINET CAT5 / Ethernet CAT5 Ethernet CAT5e	PUR	1.5	-	256-D4000-0ES015	256-A8000-0ES015
	PUR	3	-	256-D4000-0ES030	256-A8000-0ES030
	PVC	0.6	256-D4000-2PSL60	-	-
	PVC	1.5	256-D4000-2PS015	-	-
	PVC	3	256-D4000-2PS030	-	-
Straight male to straight male	PUR	0.6	-	257-D4000-0ESL60	257-A8000-0ESL60
PROFINET CAT5 / Ethernet CAT5 Ethernet CAT5e	PUR	1.5	-	257-D4000-0ES015	257-A8000-0ES015
	PUR	3	-	257-D4000-0ES030	257-A8000-0ES030
	PVC	0.6	257-D4000-2PSL60	-	-
	PVC	1.5	257-D4000-2PS015	-	-
	PVC	3	257-D4000-2PS030	-	-
Straight male to RJ45	PUR	0.6	-	299-D4EML60	299-A8EML60
PROFINET CAT5 / Ethernet CAT5 Ethernet CAT5e	PUR	1.5	-	299-D4EM015	299-A8EM015
	PUR	3	-	299-D4EM030	299-A8EM030
	PVC	0.6	299-D4PML60	-	-
	PVC	1.5	299-D4PM015	-	-
	PVC	3	299-D4PM030	-	-
Straight female to RJ45	PUR	0.6	-	299-D4EFL60	299-A8EFL60
PROFINET CAT5 / Ethernet CAT5 Ethernet CAT5e	PUR	1.5	-	299-D4EF015	299-A8EF015
	PUR	3	-	299-D4EF030	299-A8EF030
	PVC	0.6	299-D4PFL60	-	-
	PVC	1.5	299-D4PF015	-	-
	PVC	3	299-D4PF030	-	-

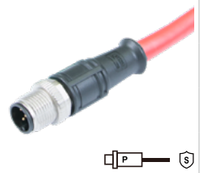
The cable length can be customized. For more details, please contact Dinkle

M12 Molded Connector (Shielded) - Fieldbus(Cc-Link, Canopen, Profibus)

Protocols	PROFIBUS	DeviceNet / CANopen	CC-Link
			
Cross-section			
Communication	PROFIBUS DP (12 Mbps)	DeviceNet™, CANopen®	CC-Link (10 Mbps)
Corresponded code	B	A	A
Number of cores	5	5	4
Outer sheath, material	PUR	PUR	PVC
External sheath, color	Violet	Violet	Red
External cable diameter	7.8 ± 0.2 mm	6.6 ± 0.25 mm	7.0 ± 0.2 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 tinned copper	Stranded tinned copper	Stranded bare copper
AWG signal line	22AWG	2 x 22AWG + 2 x 24AWG	1 x 22AWG + 3 x 20AWG
Wire colors	Green, Red	24AWG: White, Blue 22AWG: Red, Black	White, Blue, Yellow
Core diameter including insulation	2.7 ± 0.1 mm	24AWG: 1.9 ± 0.05 mm 22AWG: 1.4 ± 0.05 mm	2.2 ± 0.1 mm
Conductor resistance	59.4 Ω / km	24AWG: < 91.8 Ω / km 22AWG: < 57.4 Ω / km	37.8 Ω / km
Standards / Regulations	IEC 61158-2	UL 1581	IEC 61158-2
	UL 758	UL 758	-
	-	-	-
UL AWM style	20233	21329	2464
Flammability test	VW-1	IEC 60332-1, FT2	IEC 60332-1

M12 Molded Connector (Shielded) - Fieldbus(Cc-Link, Canopen, Profibus)

Coding and contacts	Code	A	A	B
	Contact	4	5	5
Rated voltage / current		250V / 4A	60V / 4A	60V / 4A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket
Cable profile				
Protocols		CC-Link	DeviceNet CANopen	PROFIBUS

Connector style	Cable	Length(m)	Part number		
Single-ended straight male	PUR	2	-	251-A5000-0DS020	251-B5000-0BS020
CC-Link / DeviceNet / CANopen PROFIBUS	PUR	5	-	251-A5000-0DS050	251-B5000-0BS050
	PUR	10	-	251-A5000-0DS100	251-B5000-0BS100
	PVC	2	251-A4000-2CS020	-	-
	PVC	5	251-A4000-2CS050	-	-
	PVC	10	251-A4000-2CS100	-	-
Single-ended straight female	PUR	2	-	252-A5000-0DS020	252-B5000-0BS020
CC-Link / DeviceNet / CANopen PROFIBUS	PUR	5	-	252-A5000-0DS050	252-B5000-0BS050
	PUR	10	-	252-A5000-0DS100	252-B5000-0BS100
	PVC	2	252-A4000-2CS020	-	-
	PVC	5	252-A4000-2CS050	-	-
	PVC	10	252-A4000-2CS100	-	-
Single-ended angled male	PUR	2	-	253-A5000-0DS020	253-B5000-0BS020
CC-Link / DeviceNet / CANopen PROFIBUS	PUR	5	-	253-A5000-0DS050	253-B5000-0BS050
	PUR	10	-	253-A5000-0DS100	253-B5000-0BS100
	PVC	2	253-A4000-2CS020	-	-
	PVC	5	253-A4000-2CS050	-	-
	PVC	10	253-A4000-2CS100	-	-
Single-ended angled female	PUR	2	-	254-A5000-0DS020	254-B5000-0BS020
CC-Link / DeviceNet / CANopen PROFIBUS	PUR	5	-	254-A5000-0DS050	254-B5000-0BS050
	PUR	10	-	254-A5000-0DS100	254-B5000-0BS100
	PVC	2	254-A4000-2CS020	-	-
	PVC	5	254-A4000-2CS050	-	-
	PVC	10	254-A4000-2CS100	-	-

The cable length can be customized. For more details, please contact Dinkle

M12 Molded Connector (Shielded) - Fieldbus(Cc-Link, Canopen, Profibus)

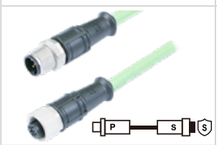
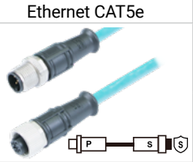
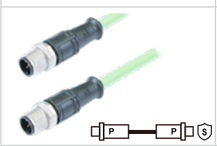
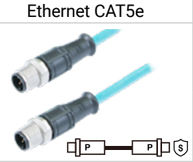
Coding and contacts	Code	A	A	B
	Contact	4	5	5
Rated voltage / current		250V / 4A	60V / 4A	60V / 4A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket
Cable profile				
Protocols		CC-Link	DeviceNet CANopen	PROFIBUS

Connector style		Cable	Length(m)	Part number		
Straight male to straight female		PUR	0.6	-	256-A5000-0DSL60	256-B5000-0BSL60
CC-Link	DeviceNet / CANopen PROFIBUS		1.5	-	256-A5000-0DS015	256-B5000-0BS015
			3	-	256-A5000-0DS030	256-B5000-0BS030
		PVC	0.6	256-A4000-2CSL60	-	-
			1.5	256-A4000-2CS015	-	-
			3	256-A4000-2CS030	-	-

The cable length can be customized. For more details, please contact Dinkle

Dinkle has launched M12 Power over Ethernet (PoE) solution for industrial network applications, such as PROFINET, CAT5 and CAT5e. The M12 connectors will offer solid wires to reduce signal loss and strengthen the rigidity of the entire cable. It can be used in static environments that require long-distance wiring, allowing you to avoid installing additional power supplies, saving material and labor costs.

Coding and contacts	Code	D	D	A
	Contact	4	4	4
Rated voltage / current		250V / 4A	60V / 2A	60V / 2A
Cable profile				
Protocols		PROFINET CAT5 (100Mbps)	Ethernet CAT5 (100Mbps)	Ethernet CAT5e (1Gbps)

Connector style		Cable	Length(m)	Part number		
PROFINET CAT5	Ethernet CAT5 Ethernet CAT5e	Straight male to straight female				
		PUR	25	-	256-D4000-0EP250	256-A8000-0EP250
		PVC	25	256-D4000-2PP250	-	-
PROFINET CAT5	Ethernet CAT5 Ethernet CAT5e	Straight male to straight male				
		PUR	25	-	257-D4000-0EP250	257-A8000-0EP250
		PVC	25	257-D4000-2PP250	-	-

The cable length can be customized. For more details, please contact Dinkle

M12 Molded Connector
Power

Dinkle provides S-code and T-code M12 circular connectors that meet the IEC 61076-2-111 design standard. These connectors provide an IP67 protection level and are equipped with PUR cables for effective resistance to cutting fluids, oils, and other harsh chemicals. In addition, the cables also withstand bending for a guaranteed minimum of 4 million times, so they are an ideal choice for industrial manufacturing, stamping, and machining applications.

S-code is mainly used for AC voltage up to 630V. The structure includes 2 or 3 gold-plated contacts and 1 pre-matched PE contact. It can be applied to two-phase or three-phase AC motors, motor-attached switches, AC drives and inverters, and more. The T-code is used for DC voltage up to 63V. This connector has 4 gold-plated contacts and can be used as a power source for DC motors, drives, fieldbus, or Ethernet modules.

Mechanical		Electrical	
Insertion/withdrawal cycles	100	Rated voltage / current (contacts)	S-Code: 630VAC / 16A (3 Pin)
Degree of protection	IP68		S-Code: 630VAC / 12A (4 Pin)
Ambient temperature (operation)	-40℃ ~ 80℃ (Stationary installation)		T-Code: 63VAC / 12A (4 Pin)
	-25℃ ~ 80℃ (Moving installation)	Insulation resistance	≥ 100MΩ
Torque	0.4 Nm	Overvoltage category	III
Material		**Standards and Regulations**	
Contact/contact surface	Copper alloy / Gold plated	Design reference	IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking
Contact carrier/overmolding	PUR / PP		IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
O-Ring	NBR		IEC-60529: Degree of protection provided by enclosures (IP Code)
Cable gland material	Zinc die-cast, nickel-plated		
Cable	S-Code: PUR (UL AWM 20234) T-Code: PUR (UL AWM 20936)		
Flammability rating (UL94)	V0	Certification reference	UL 2237

Notice

The mechanical and electrical performance can be ensured when the connector is correctly locked and fasten by specified torque. If the connector is not locked or exposured in the contaminated environment, the connector must be sealed by the protective cover. Also, the influences from conductor, cable or PCB assembly must be taken into consideration.

M12 Molded Connector S-Code & T-Code

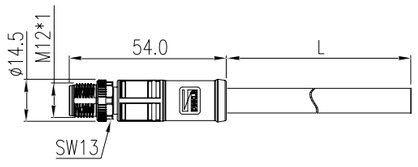
Coding and contacts	Code	S	S	T
	Contact	3(2+PE)	4(3+PE)	4
Rated voltage / current		630V / 16A	630V / 12A	63V / 12A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number		
Single-ended straight male 	PUR	2	**201-S3303-02S020**	**201-S4303-02S020**	**201-T4303-02S020**
		5	**201-S3303-02S050**	**201-S4303-02S050**	**201-T4303-02S050**
		10	**201-S3303-02S100**	**201-S4303-02S100**	**201-T4303-02S100**
Single-ended straight female 	PUR	2	**202-S3303-02S020**	**202-S4303-02S020**	**202-T4303-02S020**
		5	**202-S3303-02S050**	**202-S4303-02S050**	**202-T4303-02S050**
		10	**202-S3303-02S100**	**202-S4303-02S100**	**202-T4303-02S100**
Single-ended angled male 	PUR	2	**203-S3303-02S020**	**203-S4303-02S020**	**203-T4303-02S020**
		5	**203-S3303-02S050**	**203-S4303-02S050**	**203-T4303-02S050**
		10	**203-S3303-02S100**	**203-S4303-02S100**	**203-T4303-02S100**
Single-ended angled female 	PUR	2	**204-S3303-02S020**	**204-S4303-02S020**	**204-T4303-02S020**
		5	**204-S3303-02S050**	**204-S4303-02S050**	**204-T4303-02S050**
		10	**204-S3303-02S100**	**204-S4303-02S100**	**204-T4303-02S100**

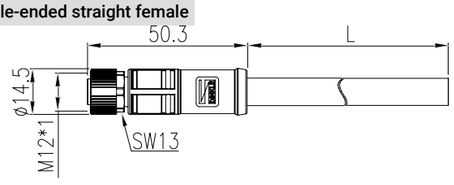
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

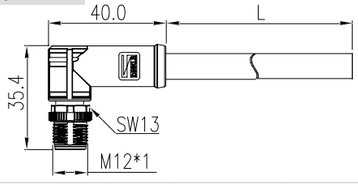
Single-ended straight male



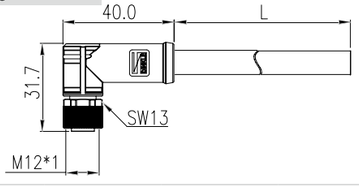
Single-ended straight female



Single-ended angled male

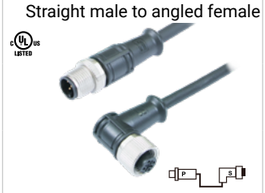


Single-ended angled female



M12 Molded Connector S-Code & T-Code

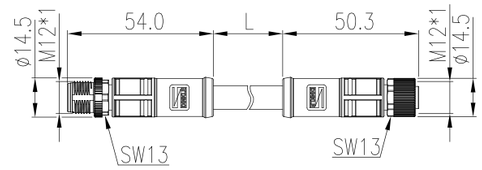
Coding and contacts	Code	S	S	T
	Contact	3(2+PE)	4(3+PE)	4
Rated voltage / current		630V / 16A	630V / 12A	63V / 12A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number		
Straight male to straight female 	PUR	0.6	**206-S3303-02SL60**	**206-S4303-02SL60**	**206-T4303-02SL60**
		1.5	**206-S3303-02S015**	**206-S4303-02S015**	**206-T4303-02S015**
		3	**206-S3303-02S030**	**206-S4303-02S030**	**206-T4303-02S030**
Angled male to Angled female 	PUR	0.6	**209-S3303-02SL60**	**209-S4303-02SL60**	**209-T4303-02SL60**
		1.5	**209-S3303-02S015**	**209-S4303-02S015**	**209-T4303-02S015**
		3	**209-S3303-02S030**	**209-S4303-02S030**	**209-T4303-02S030**
Straight male to angled female 	PUR	0.6	**212-S3303-02SL60**	**212-S4303-02SL60**	**212-T4303-02SL60**
		1.5	**212-S3303-02S015**	**212-S4303-02S015**	**212-T4303-02S015**
		3	**212-S3303-02S030**	**212-S4303-02S030**	**212-T4303-02S030**
Angled male to straight female 	PUR	0.6	**214-S3303-02SL60**	**214-S4303-02SL60**	**214-T4303-02SL60**
		1.5	**214-S3303-02S015**	**214-S4303-02S015**	**214-T4303-02S015**
		3	**214-S3303-02S030**	**214-S4303-02S030**	**214-T4303-02S030**

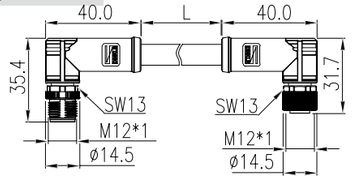
Bolded part number is UL+CUL certified

The cable length can be customized. For more details, please contact Dinkle

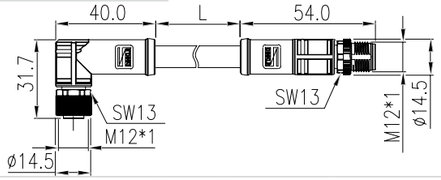
Straight male to straight female



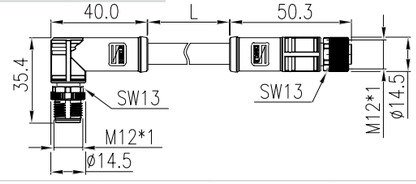
Angled male to Angled female



Straight male to angled female



Angled male to straight female



M12 Field Wiring Connector
General / Industrial Ethernet

Dinkle combined M12 field wiring connector with Push-in Design (PID) connection. The Push-in spring cage provides reliable and stable connection, without the use of any special tools such as soldering irons or screw drivers, for a quick and safe assembly process. The user simply inserts the stripped end of the wire into the designated wire entry to establish electrical contact through the spring cage. Installation is simple and reliable even in restricted installation conditions.

The main feature of the field wiring connector is that it can adapt to each individual conditions on site, and flexibility solves the issues where cables lengths cannot be pre-determined. Nickel-plated metal shells are used not only to achieve high durability for shock and vibration but provides 360° shielding to prevent electromagnetic disturbance.

In addition, aside from general applications, Dinkle's field wiring connector are also designed for differen industrial communication protocols with the corresponding color-coded push buttons. The user can identify the wire colors quicker and greatly improves their productivity.

Mechanical Properties		Electrical Properties	
Min. Insertion/withdrawal cycles	100	Rated voltage / current (contacts)	250VAC / 4A (≤ 4 Pin)
Degree of protection	IP68		60VAC / 4A (5 Pin)
Ambient temperature (operation)	-40℃ ~ 80℃		30VAC / 2A (8 Pin)
Connection method	Push-in Connection	Insulation resistance	Min. 100MΩ
Wire range	0.14 - 0.75 mm^2 / 26 - 18 AWG	Overvoltage category	II
Suitable cable diameter	4~8 mm	Pollution degree	3
Material Propertities		**Standards and Regulations**	
Contact / contact surface	Copper alloy / Gold plated	Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking
Contact carrier / lever	PA66		
Spring	Stainless steel		IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
O-Ring	NBR		
Outer shield	Zinc die-cast, nickel-plated		IEC-60529: Degree of protection provided by enclosures (IP Code)
Flammability rating (UL94)	V0	Certification reference	UL 2238

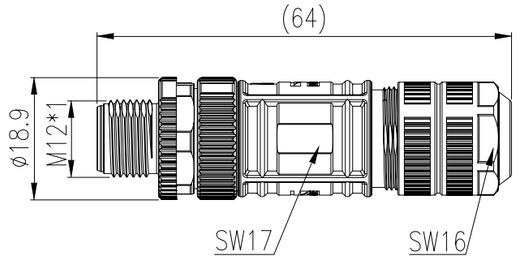
Notice

The mechanical and electrical performance can be ensured when the connector is correctly locked and fasten by specified torque. If the connector is not locked or exposured in the contaminated environment, the connector must be sealed by the protective cover. Also, the influences from conductor, cable or PCB assembly must be taken into consideration.

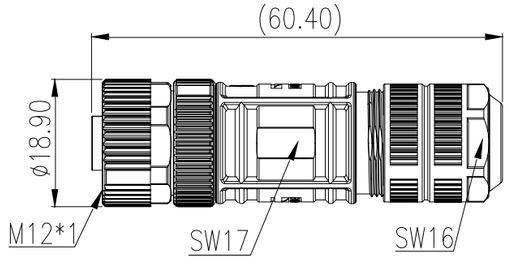
M12 Push-In Design Connection (Shielded) A-Code & B-Code & D-Code

Contact			3	4	5	8
Rated voltage / current			250V / 4A	250V / 4A	60V / 4A	30V / 2A
Connector style	Application	Code	Part number			
Straight male 	General	A	285-A3A1	285-A4A1	285-A5A1	285-A8A1
	General	B	285-B3A1	285-B4A1	285-B5A1	-
	General	D	-	285-D4A1	-	-
	CC-Link	A	-	285-A4AC	-	-
	DeviceNet CANopen	A	-	-	285-A5AD	-
	Ethernet CAT5e	A	-	-	-	285-A8AE
	PROFIBUS	B	-	-	285-B5AB	-
	PROFINET	D	-	285-D4AP	-	-
	Ethernet CAT5	D	-	285-D4AE	-	-
Straight female 	General	A	286-A3A1	286-A4A1	286-A5A1	286-A8A1
	General	B	286-B3A1	286-B4A1	286-B5A1	-
	General	D	-	286-D4A1	-	-
	CC-Link	A	-	286-A4AC	-	-
	DeviceNet CANopen	A	-	-	286-A5AD	-
	Ethernet CAT5e	A	-	-	-	286-A8AE
	PROFIBUS	B	-	-	286-B5AB	-
	PROFINET	D	-	286-D4AP	-	-
	Ethernet CAT5	D	-	286-D4AE	-	-

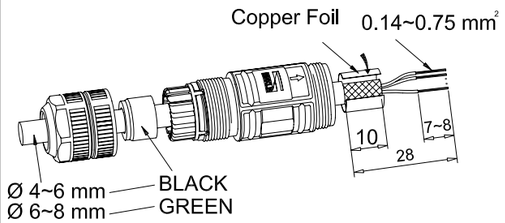
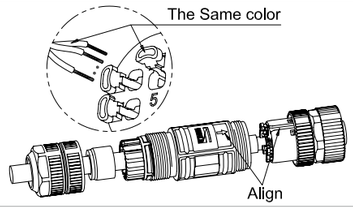
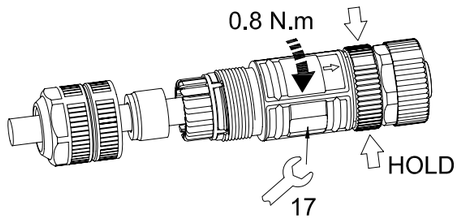
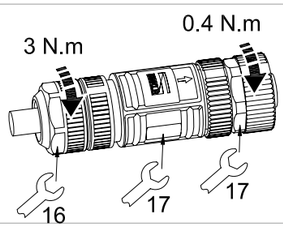
Straight male



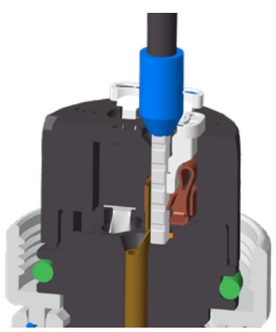
Straight female



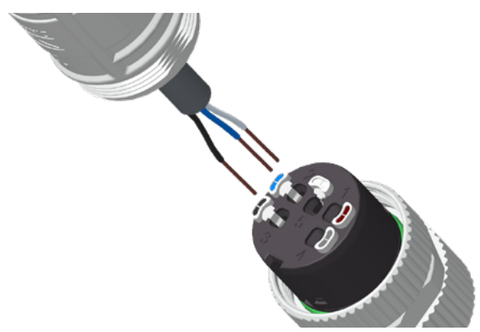
M12 PID Field Wiring Connection Assembly Instructions

1		**1-1. Select the rubber ring in accordance with the diameter of the cable jacket to secure waterproof capability** Cable Jacket Φ 4-6mm: Use black rubber ring Cable Jacket Φ 6-8mm: Use green rubber ring **1-2. Recommended stripping lengths of each layer of cable are as follows:** Cable Shielding Layer: When using shielded cable, remove the outer sheath, shorten cut the cable shielding layer to 10mm, and wrap the copper foil tape around the shielding layer. Cable Insulation: 28 mm Wire Insulation: 7-8 mm **1-3. Suitable Wire Diameter: 0.14~0.75mm²**
2		**2-1. Insert the wire into the wire entry in accordance with the color or number on the rubber core** Solid Wire: Insert wires directly Stranded Wire: Press the push button and insert wires Stranded Wire w/Ferrule: Insert wires into the wires **2-2. Align the arrow on the middle metal shell with the groove of the rubber core and screw to secure.**
3		**3. Fix the front metal shell and use hex wrench #17 to lock the middle shell with a torque of 0.8N.m.**
4		**4-1. Use hex wrench #16 to lock the rear metal shell with a torque of 3N.m.** **4-2. Use hex wrench #17 to tighten the connector with torque of 0.4N.m.**

Product Feature



Push-in Design (PID) connection for quick and secure wiring by directly inserting wires of 0.14~0.75mm²



The color of push button corresponds to the color of the wire. Wiring becomes more intuitive and efficient.

M12 Device Connector
General / Industrial Ethernet

Dinkle's shielded panel-type circular connectors are designed with PUR cables which exhibits high tensile strength, tear resistance, bending resistance, and abrasion resistance. The nickel-plated metal shells have high noise immunity and effectively prevent interference caused by high electrical noise environments, ensuring communication reliability.

In addition, Dinkle is offering network connectors, consisting of PROFINET, Ethernet, and CC-Link network communication protocols in industrial communications. With complete shielding and IP68 protection, safe and secure data transmission will be guaranteed from PCB, to control cabinet and equipment.

Dinkle provides two installation methods, front mounting and rear mounting. Once the connector is installed, it can be secured with a hexagonal nut. The thread is divided into two specifications: M16 and Pg9. The user can choose in accordance with their size requirement. All options provide an IP68 rating to withstand extreme temperature changes, humidity, chemicals, shock, and vibration.

RoHS Compliance · IP 68 · 96hr Salt

Mechanical Properties		Electrical Properties	
Min. Insertion/withdrawal cycles	100	Rated voltage / current (contacts)	250VAC / 4A (≤ 4 Pin)
Degree of protection	IP68		(contacts)
Ambient temperature (operation)	-40℃ ~ 80℃		30VAC / 2A (8 Pin)
Fasten torque	0.4 Nm		30VAC / 1.5A (12 Pin)
	0.8 Nm	Insulation resistance	Min. 100MΩ
Material Properties		**Standards and Regulations**	
Contact / contact surface	Copper alloy / Gold plated	Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking
Contact carrier	PA		
Hexigonal nut	Zinc die-cast, nickel-plated		IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
Outer Shield	Zinc die-cast, nickel-plated		
O-ring	NBR		IEC-60529: Degree of protection provided by enclosures (IP Code)
Cable	General Signal：PUR (UL AWM 20549)		
	Industrial Ethernet：Acc. to spec.		
Flammability rating (UL94)	V0	Certification reference	UL 2238

Notice

The mechanical and electrical data performance can be ensured when the connector pair is correctly locked and fasten by specified torque. If the connector is not locked and or exposured in th contaminated enviroment, the connector must be sealed by the protective cover. Also, the influences from conductor, cable or PCB assembly must be taken into consideration.

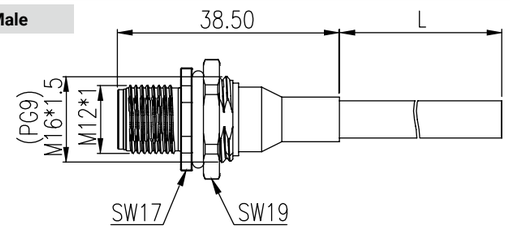
M12 Device Connector with Cable (Shielded) A-Code

Coding and contacts	Code	A	A	A	A	A
	Contact	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 PUR cable						
Connector style	**Mount thread**	**Part number**				
Male	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
Female	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 PUR cable						
Connector style	**Mount thread**	**Part number**				
Male	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
Female	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

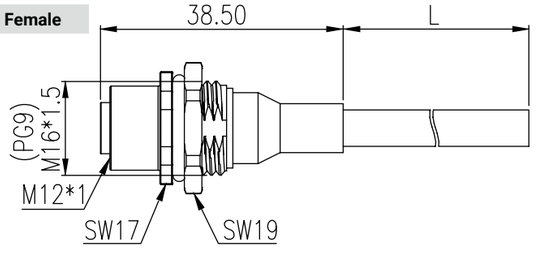
The cable length can be customized. For more details, please contact Dinkle

Front mounting with 2m PUR cable

Male

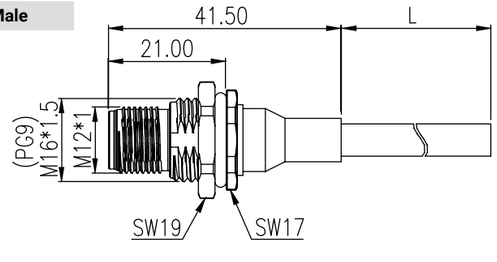


Female

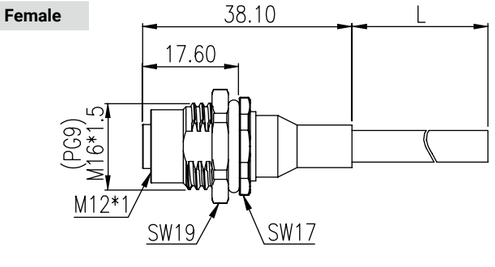


Rear mounting with 2m PUR cable

Male



Female



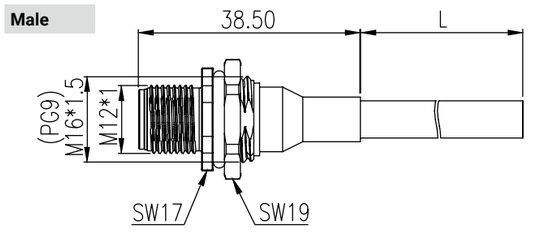
M12 Device Connector with Cable (Shielded) B-Code & D-Code

Coding and contacts	Code	B	B	B	D
	Contact	3	4	5	4
Rated voltage / current		250V / 4A	250V / 4A	60V / 4A	250V / 4A
Contact arrangement		Male / Female	Male / Female	Male / Female	Male / Female
Front mounting with 2m PUR cable					
Connector style	**Mount thread**	**Part number**			
Male	M16 X 1.5	268-B3000-15S020	268-B4000-15S020	268-B5000-15S020	268-D4000-15S020
	Pg9	268-B3002-15S020	268-B4002-15S020	268-B5002-15S020	268-D4002-15S020
Female	M16 X 1.5	269-B3000-15S020	269-B4000-15S020	269-B5000-15S020	269-D4000-15S020
	Pg9	269-B3002-15S020	269-B4002-15S020	269-B5002-15S020	269-D4002-15S020
Rear mounting with 2m PUR cable					
Connector style	**Mount thread**	**Part number**			
Male	M16 X 1.5	270-B3000-15S020	270-B4000-15S020	270-B5000-15S020	270-D4000-15S020
	Pg9	270-B3002-15S020	270-B4002-15S020	270-B5002-15S020	270-D4002-15S020
Female	M16 X 1.5	271-B3000-15S020	271-B4000-15S020	271-B5000-15S020	271-D4000-15S020
	Pg9	271-B3002-15S020	271-B4002-15S020	271-B5002-15S020	271-D4002-15S020

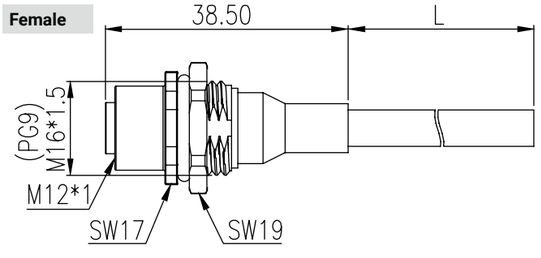
The cable length can be customized. For more details, please contact Dinkle

Front mounting with 2m PUR cable

Male

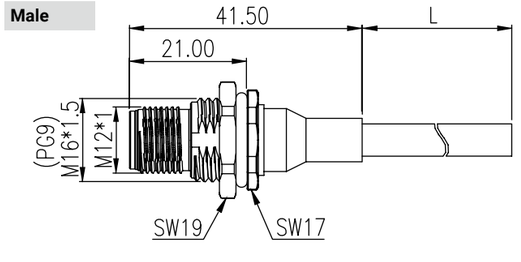


Female

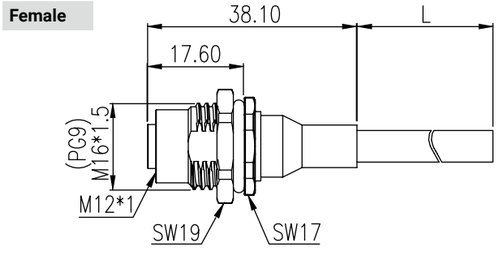


Rear mounting with 2m PUR cable

Male



Female



M12 Device Connector with Cable (Shielded) - Network(Profinet, Ethercat, Ethernet)

Coding and contacts	Code	D		D		A	
	Contact	4		4		8	
Rated voltage / current		250V / 4A		30V / 4A		60V / 2A	
Contact arrangement		Male	Female	Male	Female	Male	Female
Cable profile							
Protocols		PROFINET CAT5 (100Mbps)		Ethernet CAT5 (100Mbps)		Ethernet CAT5e (1Gbps)	

Front mounting with 2m cable

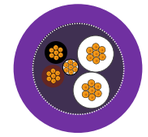
Connector style		Mount thread	Cable	Part number		
PROFINET CAT5	Ethernet CAT5 Ethernet CAT5e					
Male 	Male 	M16 x 1.5	PUR	-	268-D4000-1ES020	268-A8000-1ES020
			PVC	268-D4000-3PS020	-	-
		Pg9	PUR	-	268-D4002-1ES020	268-A8002-1ES020
			PVC	268-D4002-3PS020	-	-
Female 	Female 	M16 x 1.5	PUR	-	269-D4000-1ES020	269-A8000-1ES020
			PVC	269-D4000-3PS020	-	-
		Pg9	PUR	-	269-D4002-1ES020	269-A8002-1ES020
			PVC	269-D4002-3PS020	-	-

Rear mounting with 2m cable

Connector style		Mount thread	Cable	Part number		
PROFINET CAT5	Ethernet CAT5 Ethernet CAT5e					
Male 	Male 	M16 x 1.5	PUR	-	270-D4000-1ES020	270-A8000-1ES020
			PVC	270-D4000-3PS020	-	-
		Pg9	PUR	-	270-D4002-1ES020	270-A8002-1ES020
			PVC	270-D4002-3PS020	-	-
Female 	Female 	M16 x 1.5	PUR	-	271-D4000-1ES020	271-A8000-1ES020
			PVC	271-D4000-3PS020	-	-
		Pg9	PUR	-	271-D4002-1ES020	271-A8002-1ES020
			PVC	271-D4002-3PS020	-	-

The cable length can be customized. For more details, please contact Dinkle

M12 Device Connector with Cable (Shielded) - Fieldbus(Cc-Link, Canopen, Profibus)

Coding and contacts	Code	A		A		B	
	Contact	4		5		5	
Rated voltage / current		250V / 4A		60V / 4A		60V / 2A	
Contact arrangement		Male	Female	Male	Female	Male	Female
Cable profile							
Protocols		CC-Link		DeviceNet CANopen		PROFIBUS	

Front mounting with 2m cable

Connector style		Mount thread	Cable	Part number		
CC-Link	DeviceNet / CANopen PROFIBUS					
Male 	Male 	M16 x 1.5	PUR	-	268-A5000-1DS020	268-B5000-1BS020
			PVC	268-A4000-3CS020	-	-
		Pg9	PUR	-	268-A5002-1DS020	268-B5002-1BS020
			PVC	268-A4002-3CS020	-	-
Female 	Female 	M16 x 1.5	PUR	-	269-A5000-1DS020	269-B5000-1BS020
			PVC	269-A4000-3CS020	-	-
		Pg9	PUR	-	269-A5002-1DS020	269-B5002-1BS020
			PVC	269-A4002-3CS020	-	-

Rear mounting with 2m cable

Connector style		Mount thread	Cable	Part number		
CC-Link	DeviceNet / CANopen PROFIBUS					
Male 	Male 	M16 x 1.5	PUR	-	270-A5000-1DS020	270-B5000-1BS020
			PVC	270-A4000-3CS020	-	-
		Pg9	PUR	-	270-A5002-1DS020	270-B5002-1BS020
			PVC	270-A4002-3CS020	-	-
Female 	Female 	M16 x 1.5	PUR	-	271-A5000-1DS020	271-B5000-1BS020
			PVC	271-A4000-3CS020	-	-
		Pg9	PUR	-	271-A5002-1DS020	271-B5002-1BS020
			PVC	271-A4002-3CS020	-	-

The cable length can be customized. For more details, please contact Dinkle

M12 Device Connector
General / Power

Dinkle's panel-type circular connectors are designed in accordance with IEC 61076-2-101 and IEC 61076-2-111. These connectors are equipped with a nickel-plated metal shell, which effectively resists the corrosion of salt spray and general acid and alkali solutions. When installed, the sealing ring achieves high airtightness and waterproofs the equipment. This type of connector is generally installed on the exterior casing of the device, and then connected to other terminal blocks inside the device with soldered wires through the rear. Dinkle provides two installation methods, front mounting and rear mounting. Once the connector is inserted into the pre-cut hole from the inside or outside of the device, it can then be secured with a hexagonal nut.

Mechanical Properties		Electrical Properties	
Min. Insertion/withdrawal cycles	100	Rated voltage / current (contacts)	250VAC / 4A (≤ 4 Pin)
Degree of protection	IP68		60VAC / 4A (5 Pin)
Ambient temperature (operation)	-40℃ ~ 80℃		30VAC / 2A (8 Pin)
Fasten torque	0.4 Nm		30VAC / 1.5A (12 Pin)
	0.8 Nm		S-Code: 630VAC / 16A (3 Pin)
			S-Code: 630VAC / 12A (4 Pin)
			T-Code: 63VAC / 12A (4 Pin)
Material Properties		**Standards and Regulations**	
Contact / contact surface	Copper alloy / Gold plated	Design reference	IEC 61076-2-101: Detail specification for M12 connectors with screw-locking
Contact carrier	PA		IEC 61076-2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking
Hexigonal nut	Zinc die-cast, nickel-plated		IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
Outer Shield	Zinc die-cast, nickel-plated		IEC-60529: Degree of protection provided by enclosures (IP Code)
O-ring	NBR		
Cable	PVC (UL AWM 1061)		
	S-Code: mPPE (UL AWM 11029)		
	T-Code: mPPE (UL AWM 11027)		
Flammability rating (UL94)	V0	Certification reference	UL 2237 / 2238

Notice

The mechanical and electrical performance can be ensured when the connector pair is correctly locked and fasten by specified torque. If the connector is not locked or exposured in th contaminated enviroment, the connector must be sealed by the protective cover. Also, the influences from conductor, cable or PCB assembly must be taken into consideration.

M12 Device Connector with Conductor & Solder-Cup Pin A-Code

Coding and contacts	Code	A	A	A	A	A
	Contact	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				
Male	M16 X 1.5	218-A3000-0VSL50	218-A4000-0VSL50	218-A5000-0VSL50	218-A8000-0VSL50	218-AC000-0VSL50
	Pg9	218-A3002-0VSL50	218-A4002-0VSL50	218-A5002-0VSL50	218-A8002-0VSL50	218-AC002-0VSL50
Female	M16 X 1.5	219-A3000-0VSL50	219-A4000-0VSL50	219-A5000-0VSL50	219-A8000-0VSL50	219-AC000-0VSL50
	Pg9	219-A3002-0VSL50	219-A4002-0VSL50	219-A5002-0VSL50	219-A8002-0VSL50	219-AC002-0VSL50

Front mounting with solder cup pin

Connector style	Mount thread	Part number				
Male	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
Female	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 0.5m conductor

Connector style	Mount thread	Part number				
Male	M16 X 1.5	220-A3000-0VSL50	220-A4000-0VSL50	220-A5000-0VSL50	220-A8000-0VSL50	220-AC000-0VSL50
	Pg9	220-A3002-0VSL50	220-A4002-0VSL50	220-A5002-0VSL50	220-A8002-0VSL50	220-AC002-0VSL50
Female	M16 X 1.5	221-A3000-0VSL50	221-A4000-0VSL50	221-A5000-0VSL50	221-A8000-0VSL50	221-AC000-0VSL50
	Pg9	221-A3002-0VSL50	221-A4002-0VSL50	221-A5002-0VSL50	221-A8002-0VSL50	221-AC002-0VSL50

Rear mounting with solder cup pin

Connector style	Mount thread	Part number				
Male	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
Female	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

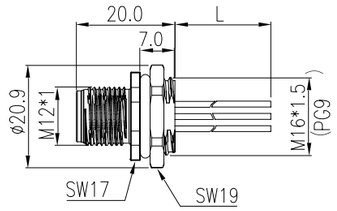
Bolded part number is UL+CUL certified

The wire length can be customized. For more details, please contact Dinkle

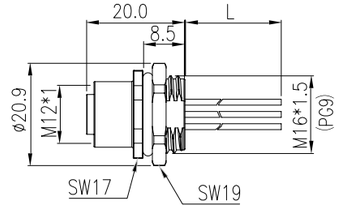
M12 Device Connector with Conductor & Solder-Cup Pin A-Code

Front mounting with 0.5m conductor

Male

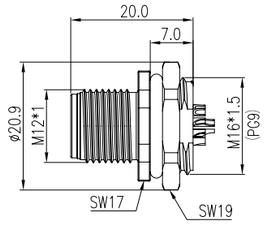


Female

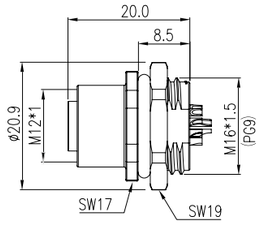


Front mounting with solder cup pin

Male

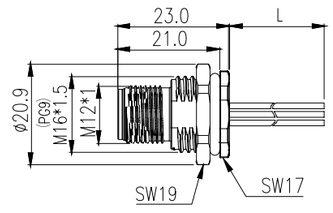


Female

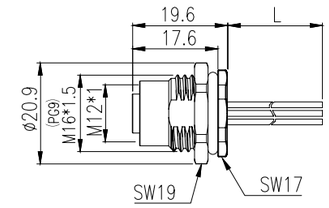


Rear mounting with 0.5m conductor

Male

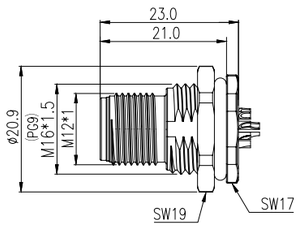


Female

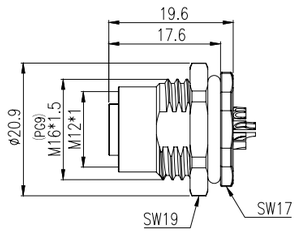


Rear mounting with solder cup pin

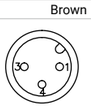
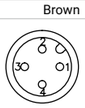
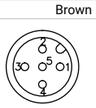
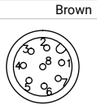
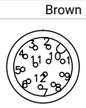
Male



Female



Pin assignments and wire colors

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

M12 Device Connector with Conductor & Solder-Cup Pin B-Code & D-Code

Coding and contacts	Code	B		B		B		D	
	Contact	3		4		5		4	
Rated voltage / current		250V / 4A		250V / 4A		60V / 4A		250V / 4A	
Contact arrangement		Male	Female	Male	Female	Male	Female	Male	Female

Front mounting with 0.5m conductor

Connector style	Mount thread	Part number			
Male	M16 X 1.5	218-B3000-0VSL50	218-B4000-0VSL50	218-B5000-0VSL50	218-D4000-0VSL50
	Pg9	218-B3002-0VSL50	218-B4002-0VSL50	218-B5002-0VSL50	218-D4002-0VSL50
Female	M16 X 1.5	219-B3000-0VSL50	219-B4000-0VSL50	219-B5000-0VSL50	219-D4000-0VSL50
	Pg9	219-B3002-0VSL50	219-B4002-0VSL50	219-B5002-0VSL50	219-D4002-0VSL50

Front mounting with solder cup pin

Connector style	Mount thread	Part number			
Male	M16 X 1.5	232-B3000-S	232-B4000-S	232-B5000-S	232-D4000-S
	Pg9	232-B3002-S	232-B4002-S	232-B5002-S	232-D4002-S
Female	M16 X 1.5	233-B3000-S	233-B4000-S	233-B5000-S	233-D4000-S
	Pg9	233-B3002-S	233-B4002-S	233-B5002-S	233-D4002-S

Rear mounting with 0.5m conductor

Connector style	Mount thread	Part number			
Male	M16 X 1.5	220-B3000-0VSL50	220-B4000-0VSL50	220-B5000-0VSL50	220-D4000-0VSL50
	Pg9	220-B3002-0VSL50	220-B4002-0VSL50	220-B5002-0VSL50	220-D4002-0VSL50
Female	M16 X 1.5	221-B3000-0VSL50	221-B4000-0VSL50	221-B5000-0VSL50	221-D4000-0VSL50
	Pg9	221-B3002-0VSL50	221-B4002-0VSL50	221-B5002-0VSL50	221-D4002-0VSL50

Rear mounting with solder cup pin

Connector style	Mount thread	Part number			
Male	M16 X 1.5	230-B3000-S	230-B4000-S	230-B5000-S	230-D4000-S
	Pg9	230-B3002-S	230-B4002-S	230-B5002-S	230-D4002-S
Female	M16 X 1.5	231-B3000-S	231-B4000-S	231-B5000-S	231-D4000-S
	Pg9	231-B3002-S	231-B4002-S	231-B5002-S	231-D4002-S

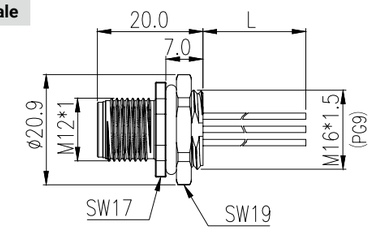
Bolded part number is UL+CUL certified

The wire length can be customized. For more details, please contact Dinkle

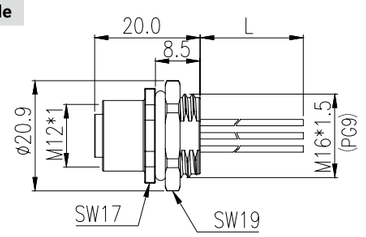
M12 Device Connector with Conductor & Solder-Cup Pin B-Code & D-Code

Front mounting with 0.5m conductor

Male

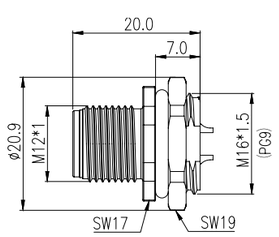


Female



Front mounting with solder cup pin

Male



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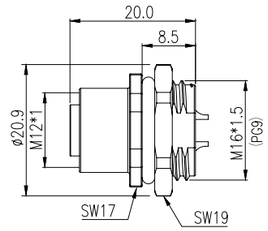
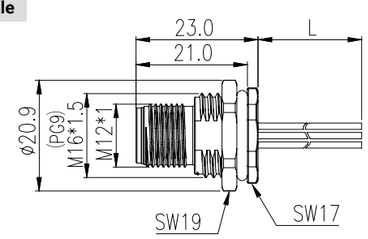
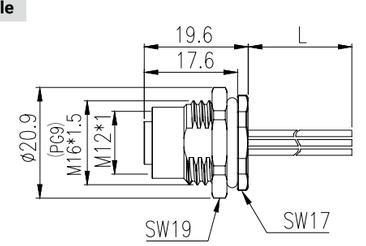


Rear mounting with 0.5m conductor

Male

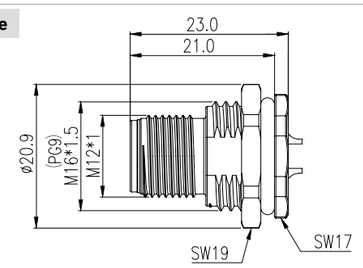


Female

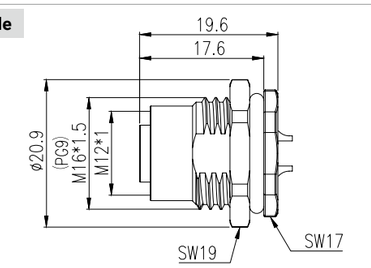


Rear mounting with solder cup pin

Male



Female



Pin assignments and wire colors

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

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

M12 Device Connector with Conductor S-Code & T-Code

Coding and contacts	Code	S	S	T
	Contact	3(2+PE)	4(3+PE)	4
Rated voltage / current		630V / 16A	630V / 12A	63V / 12A
Contact arrangement		Male  Female 	Male  Female 	Male  Female 
Front mounting with 0.5m conductor				
Connector style	**Mount thread**	**Part number**		
Male				
S-Code 	M16 X 1.5	**218-S3300-0MSL50**	**218-S4300-0MSL50**	**218-T4300-0MSL50**
T-Code 	Pg9	**218-S3302-0MSL50**	**218-S4302-0MSL50**	**218-T4302-0MSL50**
Female	**Mount thread**	**Part number**		
S-Code 	M16 X 1.5	**219-S3300-0MSL50**	**219-S4300-0MSL50**	**219-T4300-0MSL50**
T-Code 	Pg9	**219-S3302-0MSL50**	**219-S4302-0MSL50**	**219-T4302-0MSL50**
Rear mounting with 0.5m conductor				
Connector style	**Mount thread**	**Part number**		
Male				
S-Code 	M16 X 1.5	**220-S3300-0MSL50**	**220-S4300-0MSL50**	**220-T4300-0MSL50**
T-Code 	Pg9	**220-S3302-0MSL50**	**220-S4302-0MSL50**	**220-T4302-0MSL50**
Female	**Mount thread**	**Part number**		
S-Code 	M16 X 1.5	**221-S3300-0MSL50**	**221-S4300-0MSL50**	**221-T4300-0MSL50**
T-Code 	Pg9	**221-S3302-0MSL50**	**221-S4302-0MSL50**	**221-T4302-0MSL50**

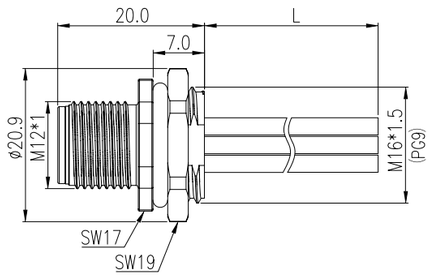
Bolded part number is UL+CUL certified

The wire length can be customized. For more details, please contact Dinkle

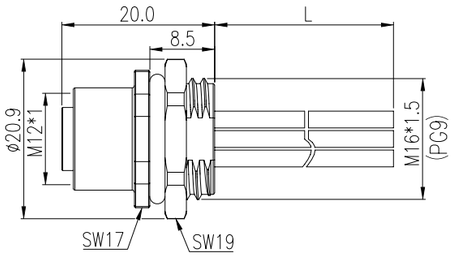
M12 Device Connector with Conductor S-Code & T-Code

Front mounting with 0.5m conductor

Male

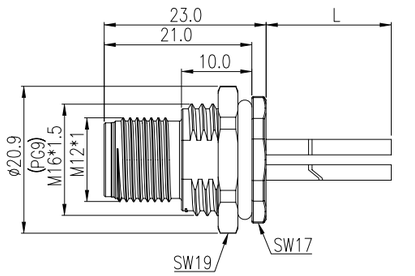


Female

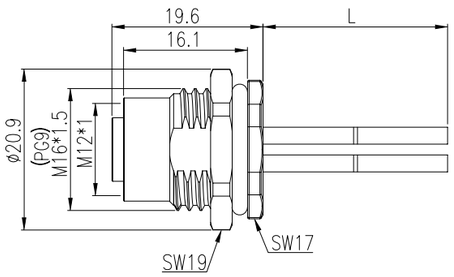


Rear mounting with 0.5m conductor

Male



Female



Pin assignments and wire colors

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

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

M12 PCB Connector
General / Power

Dinkle's M12 PCB type circular connectors can transmit signals, data, and power directly to the PCB simply and safely. Our connectors are designed according to the IEC 61076-2-101 standard. Both the external structure and the material selection are resistant to shock, vibration, pollution, extreme temperature, and humidity, so they can provide the best durability and reliable connections in harsh industrial application environments.

In addition to the use of nickel-plated metal shells to achieve high durability, corrosion resistance and high protection against oxidation, Dinkle's PCB-type circular connector series includes 180-degree (Straight) and 90-degree (Angled) solder foot form factors. Users benefit with more options for installation direction according to the placement of the device's shell and PCB.

In many industrial applications, equipment may be disturbed by electromagnetic fields. For high-precision sensors, connectors with proper shielding functionality are absolutely required. In addition to providing shielded cables, shielded PCB-type connector is being introduced. The function is achieved through the pins connecting to the metal enclosures, which grounds the connection and enables your signal to have the ability to resist electromagnetic interference during transmission.

Mechanical Properties		Electrical Properties	
Min. Insertion/withdrawal cycles	100	Rated voltage / current (contacts)	250VAC / 4A (≤ 4 Pin)
Degree of protection	IP68		60VAC / 4A (5 Pin)
Ambient temperature (operation)	-40℃ ~ 80℃		30VAC / 2A (8 Pin)
Fasten torque	0.4 Nm		30VAC / 1.5A (12 Pin)
	0.8 Nm		63V / 12A
		Insulation resistance	Min. 100MΩ
Material Properties		**Standards and Regulations**	
Contact / contact surface	Copper alloy / Gold plated	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
Contact carrier	PA		
Hexigonal nut	Zinc die-cast, nickel-plated		IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
Outer Shield	Zinc die-cast, nickel-plated		
O-ring	NBR		IEC-60529: Degree of protection provided by enclosures (IP Code)
Flammability rating (UL 94)	V0	Certification reference	UL 2238 / UL2237

Notice

The mechanical and electrical performance can be ensured when the connector pair is correctly locked and fasten by specified torque. If the connector is not locked and or exposured in th contaminated enviroment, the connector must be sealed by the protective cover. Also, the influences from conductor, cable or PCB assembly must be taken into consideration.

M12 PCB Connector (Shielded) A-Code

Coding and contacts	Code	A	A	A	A	A
	Contact	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

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**
	Pg9	**276-A3002-6**	**276-A4002-6**	**276-A5002-6**	**276-A8002-6**	**276-AC002-6**
Female 	M16 X 1.5	**277-A3000-6**	**277-A4000-6**	**277-A5000-6**	**277-A8000-6**	**277-AC000-6**
	Pg9	**277-A3002-6**	**277-A4002-6**	**277-A5002-6**	**277-A8002-6**	**277-AC002-6**

Rear mounting, straight

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**
	Pg9	**226-A3002-6**	**226-A4002-6**	**226-A5002-6**	**226-A8002-6**	**226-AC002-6**
Female 	M16 X 1.5	**227-A3000-6**	**227-A4000-6**	**227-A5000-6**	**227-A8000-6**	**227-AC000-6**
	Pg9	**227-A3002-6**	**227-A4002-6**	**227-A5002-6**	**227-A8002-6**	**227-AC002-6**

Rear mounting, right angle

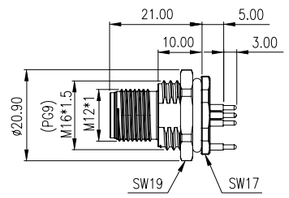
Connector style	Mount thread	Part number				
Male 	M16 X 1.5	228-A3000-3	228-A4000-3	228-A5000-3	228-A8000-3	-
	Pg9	228-A3002-3	228-A4002-3	228-A5002-3	228-A8002-3	-
Female 	M16 X 1.5	229-A3000-3	229-A4000-3	229-A5000-3	229-A8000-3	-
	Pg9	229-A3002-3	229-A4002-3	229-A5002-3	229-A8002-3	-

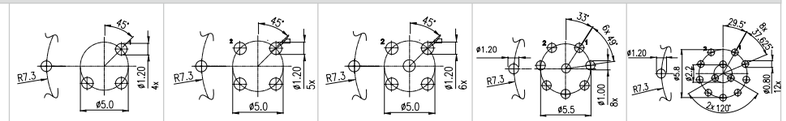
Bolded part number is UL+CUL certified

M12 PCB Connector (Shielded) A-Code, PCB Layout

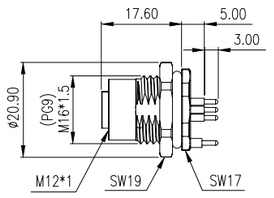
Rear mounting, straight (Shielded)

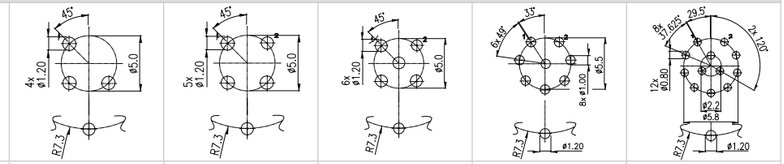
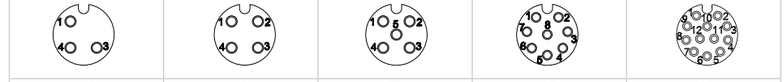
Male



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

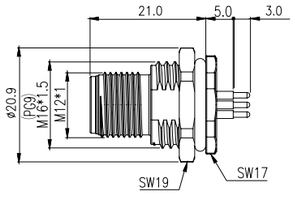
Female

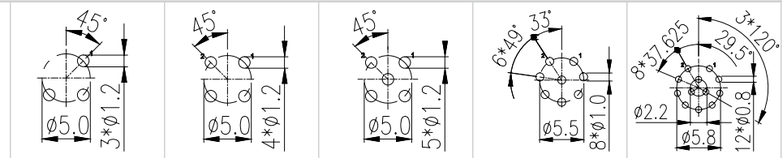


PCB Layout					
Pin out					
Pin arrangement					
	3P	4P	5P	8P	12P
	A code				

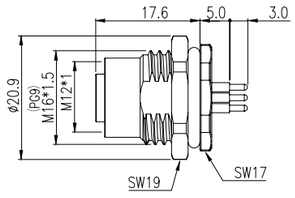
Rear mounting, straight

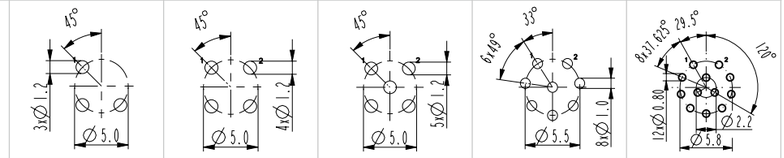
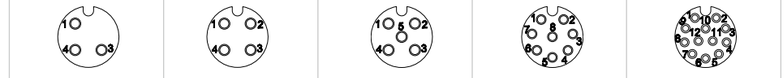
Male



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

Female

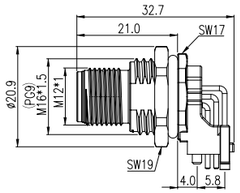


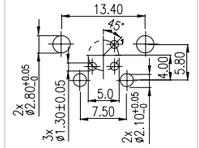
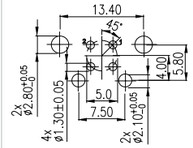
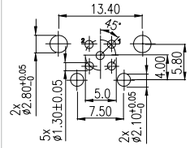
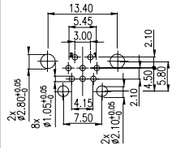
PCB Layout					
Pin out					
Pin arrangement					
	3P	4P	5P	8P	12P
	A code				

M12 PCB Connector (Shielded) A-Code, PCB Layout

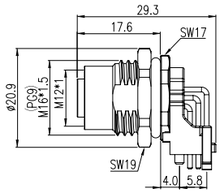
Rear mounting, right angle

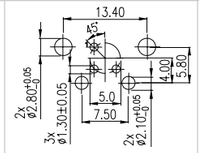
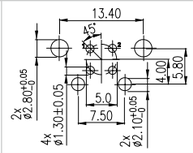
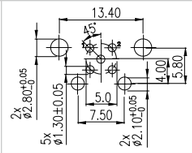
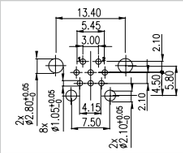
Male



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

Female



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

M12 PCB Connector (Shielded) B-Code & D-Code

Coding and contacts	Code	B		B		B		D	
	Contact	3		4		5		4	
Rated voltage / current		250V / 4A		250V / 4A		60V / 4A		250V / 4A	
Contact arrangement		Male	Female	Male	Female	Male	Female	Male	Female
									

Rear mounting, straight (Shielded)

Connector style	Mount thread	Part number			
Male 	M16 X 1.5	**276-B3000-6**	**276-B4000-6**	**276-B5000-6**	**276-D4000-6**
	Pg9	**276-B3002-6**	**276-B4002-6**	**276-B5002-6**	**276-D4002-6**
Female 	M16 X 1.5	**277-B3000-6**	**277-B4000-6**	**277-B5000-6**	**277-D4000-6**
	Pg9	**277-B3002-6**	**277-B4002-6**	**277-B5002-6**	**277-D4002-6**

Rear mounting, straight

Connector style	Mount thread	Part number			
Male 	M16 X 1.5	**226-B3000-6**	**226-B4000-6**	**226-B5000-6**	**226-D4000-6**
	Pg9	**226-B3002-6**	**226-B4002-6**	**226-B5002-6**	**226-D4002-6**
Female 	M16 X 1.5	**227-B3000-6**	**227-B4000-6**	**227-B5000-6**	**227-D4000-6**
	Pg9	**227-B3002-6**	**227-B4002-6**	**227-B5002-6**	**227-D4002-6**

Rear mounting, right angle

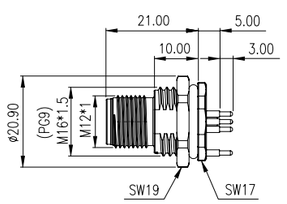
Connector style	Mount thread	Part number			
Male 	M16 X 1.5	228-B3000-3	228-B4000-3	228-B5000-3	228-D4000-3
	Pg9	228-B3002-3	228-B4002-3	228-B5002-3	228-D4002-3
Female 	M16 X 1.5	229-B3000-3	229-B4000-3	229-B5000-3	229-D4000-3
	Pg9	229-B3002-3	229-B4002-3	229-B5002-3	229-D4002-3

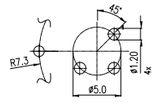
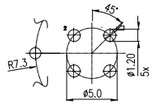
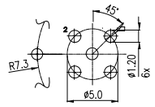
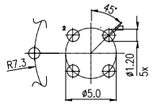
Bolded part number is UL+CUL certified

M12 PCB Connector (Shielded) B-Code & D-Code, PCB Layout

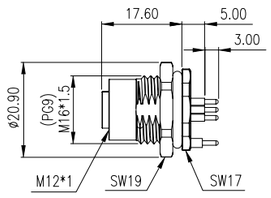
Rear mounting, straight (Shielded)

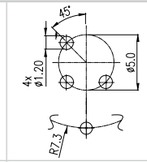
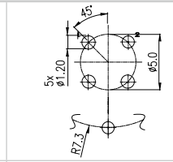
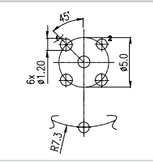
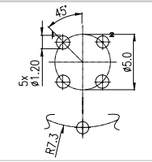
Male



PCB Layout				
Pin out				
Pin arrangement				
	3P	4P	5P	4P
	B-code			D- code

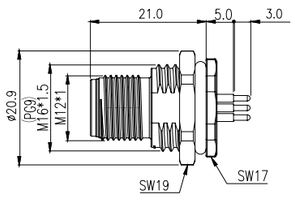
Female

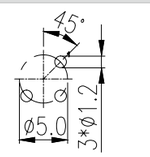
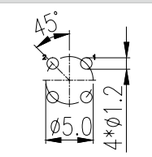
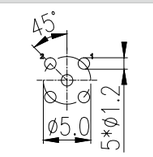
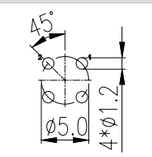


PCB Layout				
Pin out				
Pin arrangement				
	3P	4P	5P	4P
	B-code			D- code

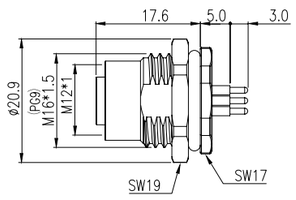
Rear mounting, straight

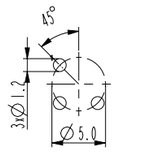
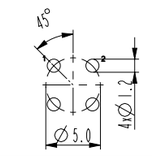
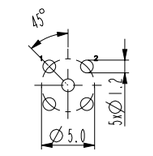
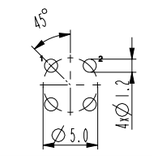
Male



PCB Layout				
Pin out				
Pin arrangement				
	3P	4P	5P	4P
	B-code			D- code

Female

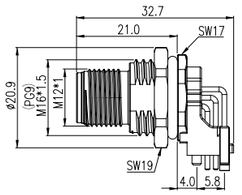


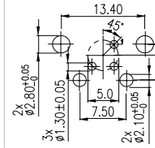
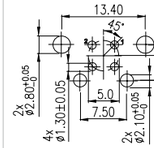
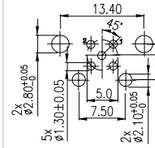
PCB Layout				
Pin out				
Pin arrangement				
	3P	4P	5P	4P
	B-code			D- code

M12 PCB Connector (Shielded) B-Code & D-Code, PCB Layout

Rear mounting, right angle

Male



PCB Layout				
Pin out				
Pin arrangement				
	3P	4P	5P	4P
	B-code			D- code

Female

PCB Layout				
Pin out				
Pin arrangement				
	3P	4P	5P	4P
	B-code			D- code

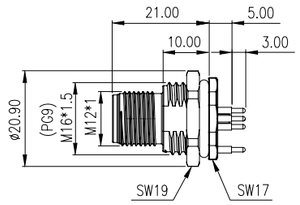
M12 PCB Connector (Shielded) T-Code, PCB Layout

Coding and contacts	Code	T	
	Contact	4	
Rated voltage / current		63V / 12A	
Contact arrangement		Male 	Female 
Rear mounting, straight (Shielded)			
Connector style	**Mount thread**	**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			
Connector style	**Mount thread**	**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**	

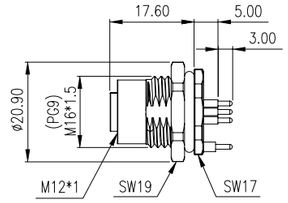
Bolded part number is UL+CUL certified

Rear mounting, straight (Shielded)

Male

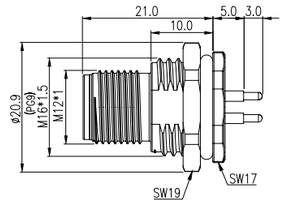


Female

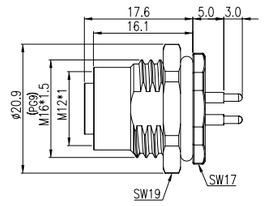


Rear mounting, straight

Male



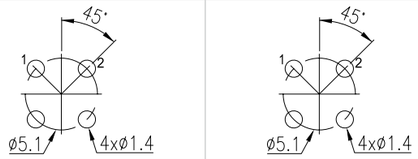
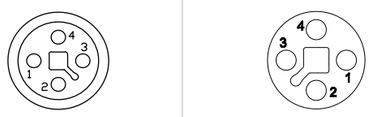
Female



Rear mounting, straight (Shielded)

PCB Layout	
Pin out	
Pin arrangement	
4P	
T code	

Rear mounting, right angle

PCB Layout	
Pin out	
Pin arrangement	
4P	
T code	

M8 Molded Connector

General

Dinkle's M8 circular connector is designed in accordance with IEC 61076-2-104 and features the same high reliability and airtightness as the M12 circular connector, but the smaller size enables them to be used in more compact equipment where there is limited space. Using the Dinkle M8 and M12 circular connectors, the assembly, testing, and maintenance of industrial control systems can be faster and more convenient, providing substantial user benefits.

For various applications in the industrial environment, Dinkle provides high-quality PVC and PUR cables to meet user needs. PVC cables are an excellent choice for most chemical washing applications in the food and beverage industries, because they have good to excellent resistance to common cleaning solvents. PUR cables can resist cutting fluids, oils and other irritating chemicals, and have with high tensile strength, abrasion resistance and bending resistance, so they can be used in high and frequent movement situations such as robotic arms.

RoHS Compliance · c UL us LISTED · IP 68 · 96hr Salt

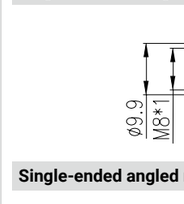
Mechanical Properties		Electrical Properties	
Min. Insertion/withdrawal cycles	100	Rated voltage / current (contacts)	60VAC / 4A (≤ 4 Pin)
Degree of protection	IP68		30VAC / 3A (5 Pin)
Ambient temperature (operation)	-40℃ ~ 80℃ (Fixed installation)		30VAC / 1.5A (6 & 8 Pin)
	-25℃ ~ 80℃ (Flexible installation)	Insulation resistance	Min. 100MΩ
Fasten torque	0.2 Nm		
Material Properties		**Standards and Regulations**	
Contact / contact surface	Copper alloy / Gold plated	Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking
Contact carrier / overmolding	PUR / PUR		IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
O-Ring	NBR		
Cable gland material	Zinc die-cast, nickel-plated		
Cable	PUR (UL AWM 20549) PVC (UL AWM 2464)		IEC-60529: Degree of protection provided by enclosures (IP Code)
Flammability rating (UL94)	HB	Certification reference	UL2238

Notice

The mechanical and electrical performance can be ensured when the connector pair is correctly locked and fasten by specified torque. If the connector is not locked or exposured in th contaminated enviroment, the connector must be sealed by the protective cover. Also, the influences from conductor, cable or PCB assembly must be taken into consideration.

M8 Molded Connector A-Code & B-Code

Coding and contacts	Code	A	A	A	A	B
	Contact	3	4	6	8	5
Rated voltage / current		60V / 4A	60V / 4A	30V / 1.5A	30V / 1.5A	30V / 3A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

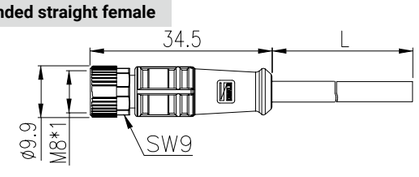
Connector style	Cable	Length(m)	Part number				
Single-ended straight male 	PVC	2	**301-A3000-10S020**	**301-A4000-10S020**	301-A6000-10S020	301-A8000-10S020	301-B5000-10S020
		5	**301-A3000-10S050**	**301-A4000-10S050**	301-A6000-10S050	301-A8000-10S050	301-B5000-10S050
		10	**301-A3000-10S100**	**301-A4000-10S100**	301-A6000-10S100	301-A8000-10S100	301-B5000-10S100
	PUR	2	**301-A3000-00S020**	**301-A4000-00S020**	301-A6000-00S020	301-A8000-00S020	301-B5000-00S020
		5	**301-A3000-00S050**	**301-A4000-00S050**	301-A6000-00S050	301-A8000-00S050	301-B5000-00S050
		10	**301-A3000-00S100**	**301-A4000-00S100**	301-A6000-00S100	301-A8000-00S100	301-B5000-00S100
Single-ended straight female	PVC	2	**302-A3000-10S020**	**302-A4000-10S020**	302-A6000-10S020	302-A8000-10S020	302-B5000-10S020
		5	**302-A3000-10S050**	**302-A4000-10S050**	302-A6000-10S050	302-A8000-10S050	302-B5000-10S050
		10	**302-A3000-10S100**	**302-A4000-10S100**	302-A6000-10S100	302-A8000-10S100	302-B5000-10S100
	PUR	2	**302-A3000-00S020**	**302-A4000-00S020**	302-A6000-00S020	302-A8000-00S020	302-B5000-00S020
		5	**302-A3000-00S050**	**302-A4000-00S050**	302-A6000-00S050	302-A8000-00S050	302-B5000-00S050
		10	**302-A3000-00S100**	**302-A4000-00S100**	302-A6000-00S100	302-A8000-00S100	302-B5000-00S100
Single-ended angled male 	PVC	2	**303-A3000-10S020**	**303-A4000-10S020**	303-A6000-10S020	303-A8000-10S020	303-B5000-10S020
		5	**303-A3000-10S050**	**303-A4000-10S050**	303-A6000-10S050	303-A8000-10S050	303-B5000-10S050
		10	**303-A3000-10S100**	**303-A4000-10S100**	303-A6000-10S100	303-A8000-10S100	303-B5000-10S100
	PUR	2	**303-A3000-00S020**	**303-A4000-00S020**	303-A6000-00S020	303-A8000-00S020	303-B5000-00S020
		5	**303-A3000-00S050**	**303-A4000-00S050**	303-A6000-00S050	303-A8000-00S050	303-B5000-00S050
		10	**303-A3000-00S100**	**303-A4000-00S100**	303-A6000-00S100	303-A8000-00S100	303-B5000-00S100
Single-ended angled female 	PVC	2	**304-A3000-10S020**	**304-A4000-10S020**	304-A6000-10S020	304-A8000-10S020	304-B5000-10S020
		5	**304-A3000-10S050**	**304-A4000-10S050**	304-A6000-10S050	304-A8000-10S050	304-B5000-10S050
		10	**304-A3000-10S100**	**304-A4000-10S100**	304-A6000-10S100	304-A8000-10S100	304-B5000-10S100
	PUR	2	**304-A3000-00S020**	**304-A4000-00S020**	304-A6000-00S020	304-A8000-00S020	304-B5000-00S020
		5	**304-A3000-00S050**	**304-A4000-00S050**	304-A6000-00S050	304-A8000-00S050	304-B5000-00S050
		10	**304-A3000-00S100**	**304-A4000-00S100**	304-A6000-00S100	304-A8000-00S100	304-B5000-00S100

Bolded part number is UL+CUL certified

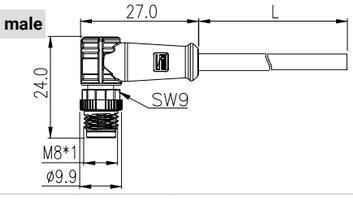
The cable length can be customized, please contacts with Dinkle

Single-ended straight male

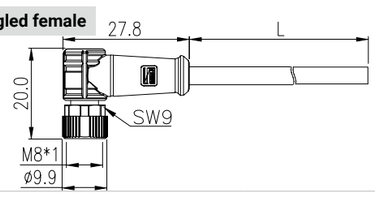
Single-ended straight female



Single-ended angled male



Single-ended angled female



M8 Molded Connector A-Code & B-Code

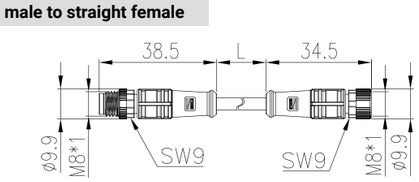
Coding and contacts	Code	A	A	A	A	B
	Contact	3	4	6	8	5
Rated voltage / current		60V / 4A	60V / 4A	30V / 1.5A	30V / 1.5A	30V / 3A
Contact arrangement		Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket	Plug / Socket

Connector style	Cable	Length(m)	Part number				
Straight male to straight female 	PVC	0.6	**306-A3000-10SL60**	**306-A4000-10SL60**	306-A6000-10SL60	306-A8000-10SL60	306-B5000-10SL60
		1.5	**306-A3000-10S015**	**306-A4000-10S015**	306-A6000-10S015	306-A8000-10S015	306-B5000-10S015
		3	**306-A3000-10S030**	**306-A4000-10S030**	306-A6000-10S030	306-A8000-10S030	306-B5000-10S030
	PUR	0.6	**306-A3000-00SL60**	**306-A4000-00SL60**	306-A6000-00SL60	306-A8000-00SL60	306-B5000-00SL60
		1.5	**306-A3000-00S015**	**306-A4000-00S015**	306-A6000-00S015	306-A8000-00S015	306-B5000-00S015
		3	**306-A3000-00S030**	**306-A4000-00S030**	306-A6000-00S030	306-A8000-00S030	306-B5000-00S030
Angled male to angled female 	PVC	0.6	**309-A3000-10SL60**	**309-A4000-10SL60**	309-A6000-10SL60	309-A8000-10SL60	309-B5000-10SL60
		1.5	**309-A3000-10S015**	**309-A4000-10S015**	309-A6000-10S015	309-A8000-10S015	309-B5000-10S015
		3	**309-A3000-10S030**	**309-A4000-10S030**	309-A6000-10S030	309-A8000-10S030	309-B5000-10S030
	PUR	0.6	**309-A3000-00SL60**	**309-A4000-00SL60**	309-A6000-00SL60	309-A8000-00SL60	309-B5000-00SL60
		1.5	**309-A3000-00S015**	**309-A4000-00S015**	309-A6000-00S015	309-A8000-00S015	309-B5000-00S015
		3	**309-A3000-00S030**	**309-A4000-00S030**	309-A6000-00S030	309-A8000-00S030	309-B5000-00S030
Straight male to angled female 	PVC	0.6	**312-A3000-10SL60**	**312-A4000-10SL60**	312-A6000-10SL60	312-A8000-10SL60	312-B5000-10SL60
		1.5	**312-A3000-10S015**	**312-A4000-10S015**	312-A6000-10S015	312-A8000-10S015	312-B5000-10S015
		3	**312-A3000-10S030**	**312-A4000-10S030**	312-A6000-10S030	312-A8000-10S030	312-B5000-10S030
	PUR	0.6	**312-A3000-00SL60**	**312-A4000-00SL60**	312-A6000-00SL60	312-A8000-00SL60	312-B5000-00SL60
		1.5	**312-A3000-00S015**	**312-A4000-00S015**	312-A6000-00S015	312-A8000-00S015	312-B5000-00S015
		3	**312-A3000-00S030**	**312-A4000-00S030**	312-A6000-00S030	312-A8000-00S030	312-B5000-00S030
Angled male to straight female 	PVC	0.6	**314-A3000-10SL60**	**314-A4000-10SL60**	314-A6000-10SL60	314-A8000-10SL60	314-B5000-10SL60
		1.5	**314-A3000-10S015**	**314-A4000-10S015**	314-A6000-10S015	314-A8000-10S015	314-B5000-10S015
		3	**314-A3000-10S030**	**314-A4000-10S030**	314-A6000-10S030	314-A8000-10S030	314-B5000-10S030
	PUR	0.6	**314-A3000-00SL60**	**314-A4000-00SL60**	314-A6000-00SL60	314-A8000-00SL60	314-B5000-00SL60
		1.5	**314-A3000-00S015**	**314-A4000-00S015**	314-A6000-00S015	314-A8000-00S015	314-B5000-00S015
		3	**314-A3000-00S030**	**314-A4000-00S030**	314-A6000-00S030	314-A8000-00S030	314-B5000-00S030

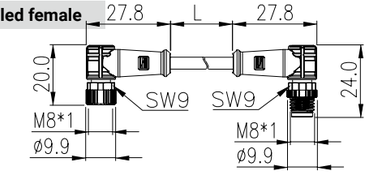
Bolded part number is UL+CUL certified

The cable length can be customized, please contacts with Dinkle

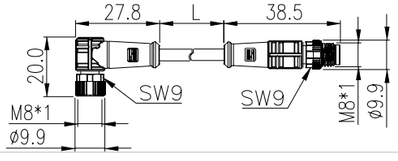
Straight male to straight female



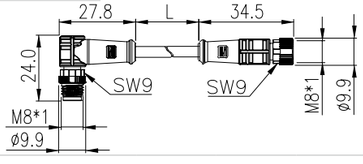
Angled male to angled female



Straight male to angled female



Angled male to straight female



M8 Device Connector
General

To meet the increasing demand for power and data transmission, Dinkle introduces a smaller M8 panel type circular connector, designed on the basis of IEC 61076-2-104. These connectors can provide users with a more compact assembly and connection solution, which can be implemented on a housing with a limited space. This form factor provides higher power density than general connectors. Circular connectors are very suitable for industrial environments, providing excellent performance under harsh conditions and at least an IP67 level of dust and water resistance.

In terms of structure, Dinkle's panel product line has two housings, front mounting and rear mounting, to meet different installation requirements. Dinkle has also introduced Solder Cup terminals, allowing users to solder wires even in compact equipment internal spaces. The comprehensive product portfolio delivers high-quality efficacy and low-cost.

Mechanical Properties		Electrical Properties	
Min. Insertion/ withdrawal cycles	100	Rated voltage / current (contacts)	60VAC / 4A (≤ 4 Pin)
Degree of protection	IP68		30VAC / 3A (5 Pin)
Ambient temperature (operation)	-40℃ ~ 80℃		30VAC / 1.5A (6 & 8 Pin)
	0.2 Nm	Insulation resistance	Min. 100MΩ
Fasten torque	0.6 Nm	Overvoltage category	II
Material Properties		**Standards and Regulations**	
Contact / contact surface	Copper alloy / Gold plated	Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking
Contact carrier	PA		IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
Hexigonal nut	Brass, nickel-plated		
Outer shield	Zinc die-cast, nickel-plated		
O-Ring	NBR		IEC-60529: Degree of protection provided by enclosures (IP Code)
Cable	PVC (UL AWM 1061)		
Flammability rating (UL94)	HB	Certification reference	UL2238
Notice			
The mechanical and electrical performance can be ensured when the connector pair is correctly locked and fasten by specified torque. If the connector is not locked or exposured in th contaminated enviroment, the connector must be sealed by the protective cover. Also, the influences from conductor, cable or PCB assembly must be taken into consideration.			

M8 Device Connector with Conductor & Solder-Cup Pin A-Code & B-Code

Coding and contacts	Code	A	A	A	A	B
	Contact	3	4	6	8	5
Rated voltage / current		60V / 4A	60V / 4A	30V / 1.5A	30V / 1.5A	30V / 3A
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	M8 X 0.5	**318-A3000-0VSL50**	**318-A4000-0VSL50**	318-A6000-0VSL50	318-A8000-0VSL50	318-B5000-0VSL50
Female	M8 X 0.5	**319-A3000-0VSL50**	**319-A4000-0VSL50**	319-A6000-0VSL50	319-A8000-0VSL50	319-B5000-0VSL50
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	332-B5000-S
Female	M8 X 0.5	**333-A3000-S**	**333-A4000-S**	333-A6000-S	333-A8000-S	333-B5000-S
Rear mounting with 0.5m conductor						
Connector style	**Mount thread**	**Part number**				
Male	M8 x 1	**320-A3001-0VSL50**	**320-A4001-0VSL50**	320-A6001-0VSL50	320-A8001-0VSL50	320-B5001-0VSL50
Female	M10 x 0.75	**321-A3002-0VSL50**	**321-A4002-0VSL50**	321-A6002-0VSL50	321-A8002-0VSL50	321-B5002-0VSL50
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	330-B5001-S
Female	M10 x 0.75	**331-A3002-S**	**331-A4002-S**	331-A6002-S	331-A8002-S	331-B5002-S

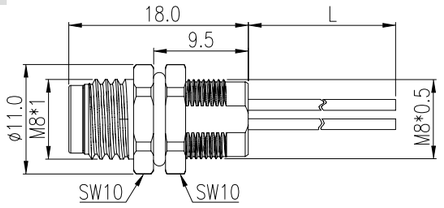
Bolded part number is UL+CUL certified

The wire length can be customized. For more details, please contact Dinkle

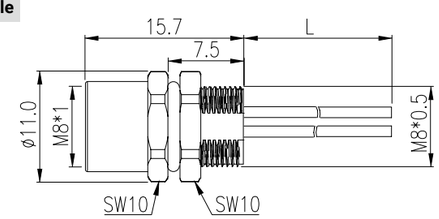
M8 Device Connector with Conductor & Solder-Cup Pin A-Code & B-Code, Pcb Layout

Front mounting with 0.5m conductor

Male

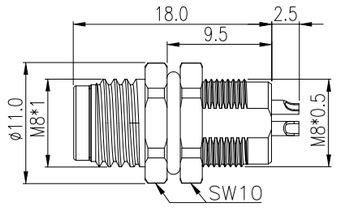


Female

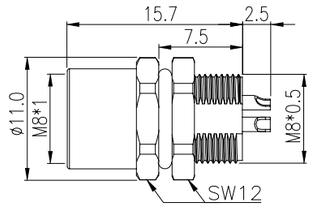


Front mounting with solder cup

Male

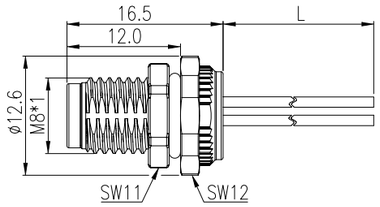


Female

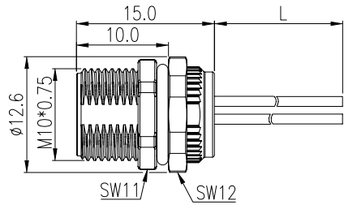


Rear mounting with 0.5m conductor

Male

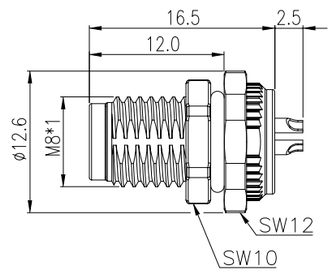


Female

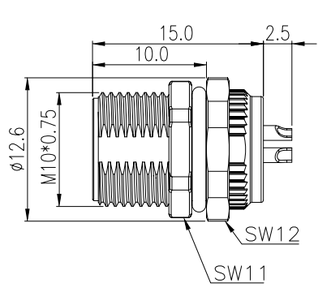


Rear mounting with solder cup

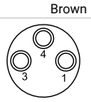
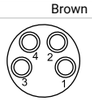
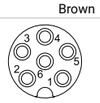
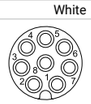
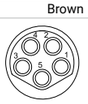
Male



Female



Pin assignments and wire colors

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

M8 Unshielded PCB Connector

General

Dinkle's M8 circular connector series have an industry-standard 8mm metric threaded connection structure and a high protection level of IP68.

It can easily and safely transmit signals, data, and electricity directly to the PCB. It is one of the most used connectors in factory automation, and is especially suitable for automotive, process control, commercial electronics, and instrument applications requiring reliable and robust miniature sensors. Whether it is M8 or M12 PCB type circular connectors, all use corrosion-resistant nickel-plated metal shells, which when matched with a sealing ring can provide the most reliable protection for any application.

Mechanical Properties		Electrical Properties	
Min. Insertion/withdrawal cycles	100	Rated voltage / current (contacts)	60VAC / 4A (≤ 4 Pin)
Degree of protection	IP68		30VAC / 3A (5 Pin)
Ambient temperature (operation)	-40℃ ~ 80℃		30VAC / 1.5A (6 & 8 Pin)
Fasten torque	0.2 Nm	Insulation resistance	Min. 100MΩ
	0.6 Nm	Overvoltage category	II
Material Properties		**Standards and Regulations**	
Contact / contact surface	Copper alloy / Gold plated	Design reference	IEC 61076-2-104: Detail specification for M8 connectors with screw-locking
Contact carrier	PA		IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
Hexigonal nut	Brass, nickel-plated		IEC-60529: Degree of protection provided by enclosures (IP Code)
Outer shield	Zinc die-cast, nickel-plated		
O-Ring	NBR		
Flammability rating (UL94)	V0	Certification reference	UL 2238

Notice

The mechanical and electrical performance can be ensured when the connector pair is correctly locked and fasten by specified torque. If the connector is not locked or exposured in th contaminated enviroment, the connector must be sealed by the protective cover. Also, the influences from conductor, cable or PCB assembly must be taken into consideration.

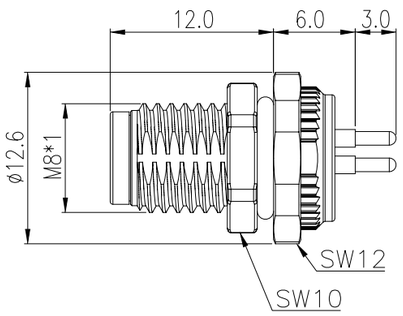
M8 PCB Connector A-Code & B-Code, PCB Layout

Coding and contacts	Code	A		A		A		A		B	
	Contact	3		4		6		8		5	
Rated voltage / current		60V / 4A		60V / 4A		30V / 1.5A		30V / 1.5A		30V / 3A	
Contact arrangement		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Rear mounting, straight											
Connector style	**Mount thread**	**Part number**									
Male	M8 X 1	**326-A3001-4**		**326-A4001-4**		326-A6001-4		326-A8001-4		326-B5001-4	
Female	M10 x 0.75	**327-A3002-4**		**327-A4002-4**		327-A6002-4		327-A8002-4		327-B5002-4	

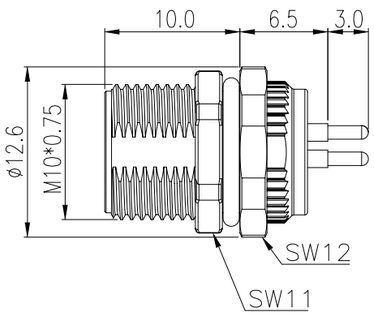
Bolded part number is UL+CUL certified

Rear mounting, straight

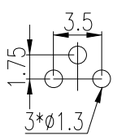
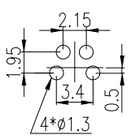
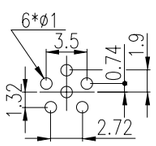
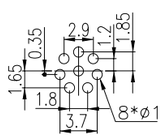
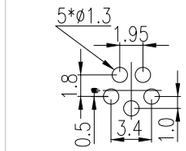
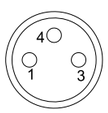
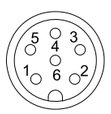
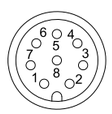
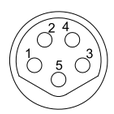
Male



Female



PCB Layout

Pin out					
					
Pin arrangement					
	3P	4P	6P	8P	5P
	A code				B code

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-A001
	-	-	-	200-A002	-
	-	300-A003	-	-	-
	-	-	300-A005	-	-
Plastic sealing cap with retaining chain 	M16 x 1.5, Pg9	-	-	200-A003	-
	M16 x 1.5, Pg9	-	-	-	200-A004
	M12	-	300-A001	-	-
	M8	300-A004	300-A002	-	-