

M12 Circular Connector,A-code

Standards: IEC-61076-2-101



- [Cable Connector](#)
- Shielded / unshielded series
- Installable series and moulded cable series
- Thread locking M12X1
- Screw terminal and welding terminal
- Shielding ring and ring spring shielding connection
- Cable length 1.5m and 5m
- Other cable length upon request, minimum order quantity 200 pieces
- Cable material can be customized according to requirements
- Degree of protection IP67/ IP68
- Transparent case for PCB with LED

M12-A Circular Connector

30/60/125/250V 1.5/2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² max.AWG20)	max.0.25mm ² max.AWG24)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	6-8 mm	6-8 mm
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Straight cable connectors

Remark: SPQ is 5pcs

Male cable connector, plastic

locking

system, screw clamp connection



A-Code



Male cable connector, plastic

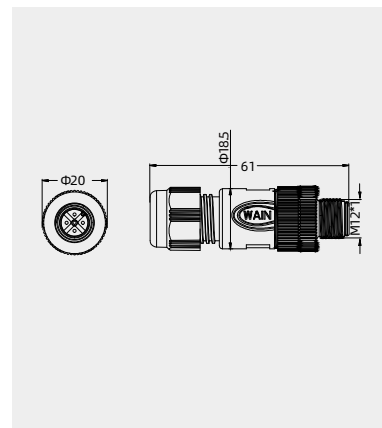
locking system, solder



A-Code

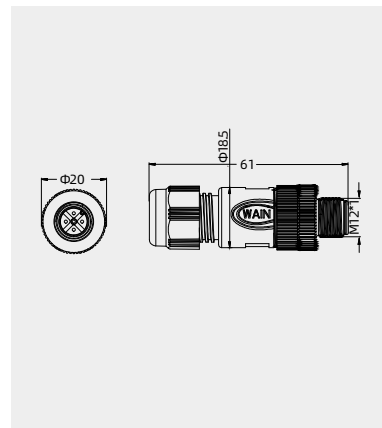


Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-M03A-T-D6	163 003 411 3101
	6-8 mm	M12P-M03A-T-D8	163 003 411 3102
4	4-6 mm	M12P-M04A-T-D6	163 004 411 3101
	6-8 mm	M12P-M04A-T-D8	163 004 411 3102
5	4-6 mm	M12P-M05A-T-D6	163 005 411 3101
	6-8 mm	M12P-M05A-T-D8	163 005 411 3102
8	6-8 mm	M12P-M08A-T-D8	163 008 401 3003



M12-A

Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-MST03A-T-D6	163 003 413 3500
	6-8 mm	M12P-MST03A-T-D8	163 003 413 3501
4	4-6 mm	M12P-MST04A-T-D6	163 004 413 3502
	6-8 mm	M12P-MST04A-T-D8	163 004 413 3503
5	4-6 mm	M12P-MST05A-T-D6	163 005 413 3500
	6-8 mm	M12P-MST05A-T-D8	163 005 413 3501
8	4-6 mm	M12P-MST08A-T-D6	163 008 413 3502
	6-8 mm	M12P-MST08A-T-D8	163 008 413 3503
12	6-8 mm	M12P-MST12A-T-D8	163 012 413 3003



Hexagonal driver



Remark: SPQ is 1pc

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

30/60/125/250V 1.5/2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² max.AWG20)	max.0.25mm ² max.AWG24)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	6-8 mm	6-8 mm
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Straight cable connectors **Remark: SPQ is 5pcs**

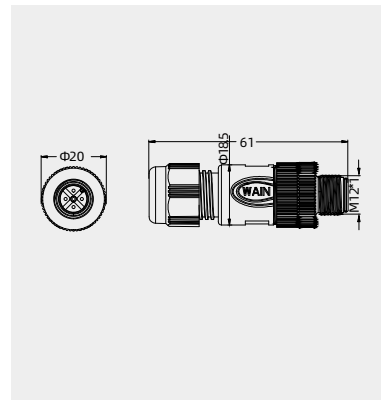
Male cable connector,
metal locking system,
screw clamp connection
Recommended use



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-M03A-T-D6	163 003 411 3001
	6-8 mm	M12-M03A-T-D8	163 003 411 3002
4	4-6 mm	M12-M04A-T-D6	163 004 411 3001
	6-8 mm	M12-M04A-T-D8	163 004 411 3002
5	4-6 mm	M12-M05A-T-D6	163 005 411 3001
	6-8 mm	M12-M05A-T-D8	163 005 411 3002
8	6-8 mm	M12-M08A-T-D8	163 008 411 3002



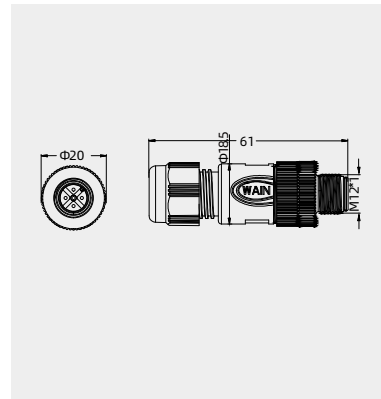
Male cable connector,
metal locking system,solder
Recommended use



A-Code



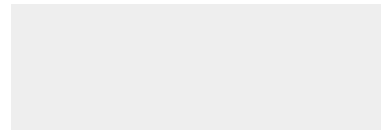
Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-MST03A-T-D6	163 003 413 3504
	6-8 mm	M12-MST03A-T-D8	163 003 413 3505
4	4-6 mm	M12-MST04A-T-D6	163 004 413 3501
	6-8 mm	M12-MST04A-T-D8	163 004 413 3510
5	4-6 mm	M12-MST05A-T-D6	163 005 413 3508
	6-8 mm	M12-MST05A-T-D8	163 005 413 3509
8	4-6 mm	M12-MST08A-T-D6	163 008 413 3500
	6-8 mm	M12-MST08A-T-D8	163 008 413 3501
12	6-8 mm	M12-MST12A-T-D8	163 012 413 3002



Hexagonal driver

**Remark: SPQ is 1pc**

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016



M12-A Circular Connector

30/60/125/250V 1.5/2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² max.AWG20)	max.0.25mm ² max.AWG24)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	6-8 mm	6-8 mm
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT	PA/PBT

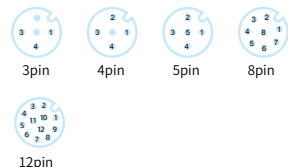
Straight cable connectors Remark: SPQ is 5pcs

Male cable connector, stainless steel

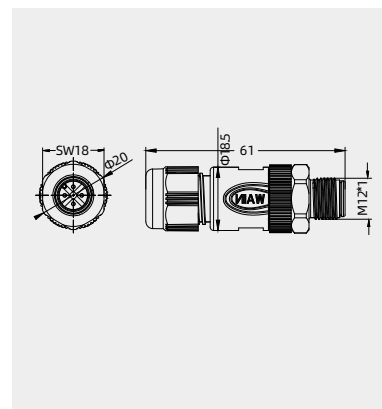
locking system, screw clamp connection,



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Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12S-M03A-T-D6	163 003 401 3001
	6-8 mm	M12S-M03A-T-D8	163 003 401 3002
4	4-6 mm	M12S-M04A-T-D6	163 004 411 3201
	6-8 mm	M12S-M04A-T-D8	163 004 411 3202
5	4-6 mm	M12S-M05A-T-D6	163 005 411 3201
	6-8 mm	M12S-M05A-T-D8	163 005 411 3202
8	6-8 mm	M12S-M08A-T-D8	163 008 411 3202



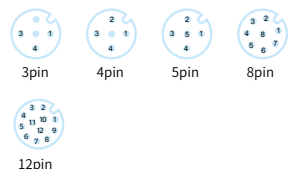
M12-A

Male cable connector, stainless steel

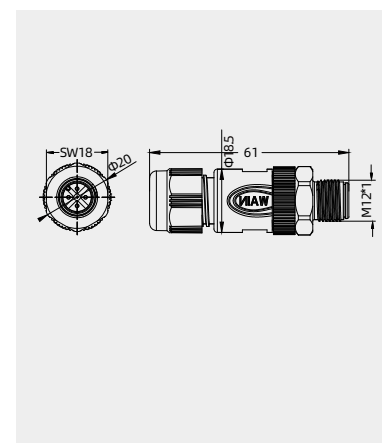
locking system, solder



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12S-MST03A-T-D6	163 003 413 3502
	6-8 mm	M12S-MST03A-T-D8	163 003 413 3503
4	4-6 mm	M12S-MST04A-T-D6	163 004 413 3504
	6-8 mm	M12S-MST04A-T-D8	163 004 413 3505
5	4-6 mm	M12S-MST05A-T-D6	163 005 413 3502
	6-8 mm	M12S-MST05A-T-D8	163 005 413 3503
8	4-6 mm	M12S-MST08A-T-D6	163 008 413 3504
	6-8 mm	M12S-MST08A-T-D8	163 008 413 3505
12	6-8 mm	M12S-MST12A-T-D8	163 012 413 3004



Hexagonal driver

Remark: SPQ is 1pc

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

30/125/250V 1.5/2/8A

Technical characteristics

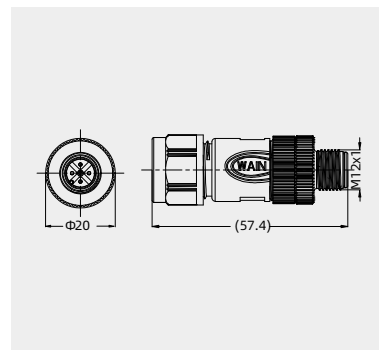
	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	8A	Contacts:1-4 8A; Contacts:5 2A	Contacts: 2A	1.5A
Rated voltage	250V	125V	125V	30V
Rated impulse voltage	2500V	1500V	1500V9	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.1.5mm ² (max.AWG16)	max.1.5mm ² (max.AWG16)	max.1.5mm ² (max.AWG16)	max.0.25mm ² max.AWG24)
Cable outlet	8-10mm	8-10mm	8-10mm	6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Straight cable connectors Remark: SPQ is 5pcsMale cable connector,
screw clamp connection

A-Code



Contacts	Cable outlet	Designation	Order No.
4	8-10 mm	M12-M04A-T-D10	163 004 411 3003
5	8-10 mm	M12-M05A-T-D10	163 005 411 3003
8	8-10 mm	M12-M08A-T-D10	163 008 401 3001



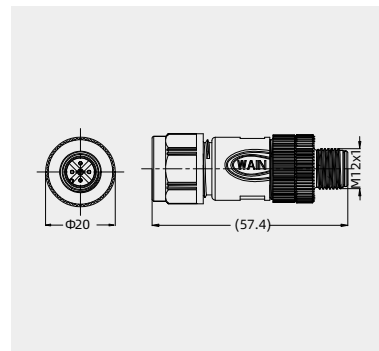
Male cable connector, solder



A-Code



Contacts	Cable outlet	Designation	Order No.
4	8-10 mm	M12-MST04A-T-D10	163 004 413 3506
5	8-10 mm	M12-MST05A-T-D10	163 005 413 3504
8	8-10 mm	M12-MST08A-T-D10	163 008 413 3506
12	8-10 mm	M12-MST12A-T-D10	163 012 413 3001



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250(125)V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² (max.AWG20)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT

Straight cable duo connectors Remark: SPQ is 5pcs

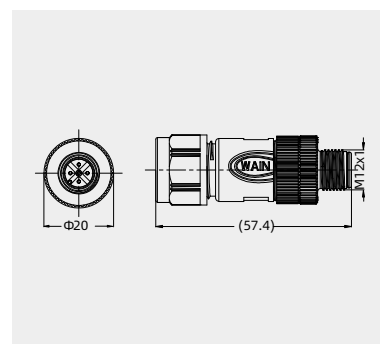
Male cable connector, plastic locking system, screw clamp connection



A-Code



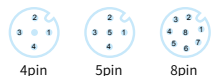
Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12P-M04A-T-2D5	163 004 411 3104
5	2(2.1-3 mm or 4-5 mm)	M12P-M05A-T-2D5	163 005 411 3104
8	2(2.1-3 mm or 4-5 mm)	M12P-M08A-T-2D5	163 008 401 3002



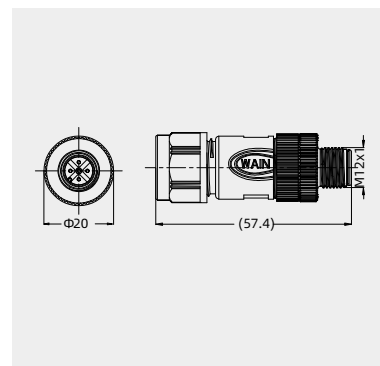
Male cable connector, plastic locking system, solder



A-Code



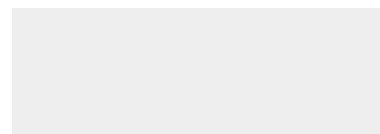
Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12P-MST04A-T-2D5	163 004 413 3507
5	2(2.1-3 mm or 4-5 mm)	M12P-MST05A-T-2D5	163 005 413 3505
8	2(2.1-3 mm or 4-5 mm)	M12P-MST08A-T-2D5	163 008 413 3507



Hexagonal driver

Remark: SPQ is 1pc

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016



M12-A

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

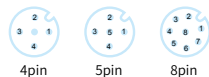
	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250(125)V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² (max.AWG20)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT

Straight cable duo connectors Remark: SPQ is 5pcs

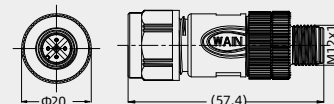
Male cable duo connector,
metal locking system,
screw clamp connection



A-Code



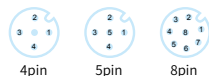
Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12-M04A-T-2D5	163 004 411 3004
5	2(2.1-3 mm or 4-5 mm)	M12-M05A-T-2D5	163 005 411 3004
8	2(2.1-3 mm or 4-5 mm)	M12-M08A-T-2D5	163 008 411 3004



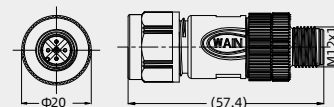
Male cable duo connector,
metal locking system,solder



A-Code



Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12-MST04A-T-2D5	163 004 413 3508
5	2(2.1-3 mm or 4-5 mm)	M12-MST05A-T-2D5	163 005 413 3506
8	2(2.1-3 mm or 4-5 mm)	M12-MST08A-T-2D5	163 008 413 3508



Hexagonal driver

Remark: SPQ is 1pc

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

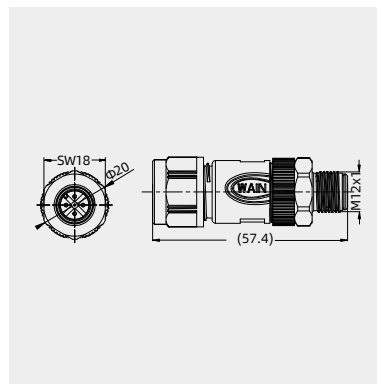
	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250(125)V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² (max.AWG20)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT

Straight cable duo connectors Remark: SPQ is 5pcsMale cable connector, stainless steel
locking system, screw clamp connection,

Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or4-5 mm)	M12S-M04A-T-2D5	163 004 411 3204
5	2(2.1-3 mm or4-5 mm)	M12S-M05A-T-2D5	163 005 411 3204
8	2(2.1-3 mm or4-5 mm)	M12S-M08A-T-2D5	163 008 411 3204



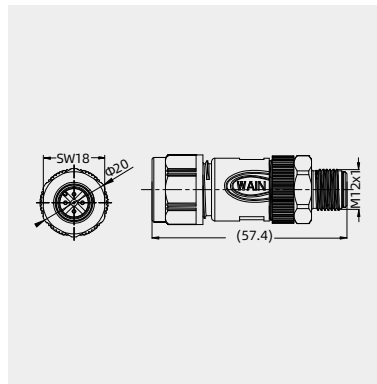
A-Code

Male cable connector, stainless steel
locking system, solder

Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or4-5 mm)	M12S-MST04A-T-2D5	163 004 413 3509
5	2(2.1-3 mm or4-5 mm)	M12S-MST05A-T-2D5	163 005 413 3507
8	2(2.1-3 mm or4-5 mm)	M12S-MST08A-T-2D5	163 008 413 3509



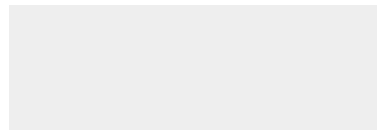
A-Code



Hexagonal driver

Remark: SPQ is 1pc

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016



M12-A

M12-A Circular Connector

30/60/125/250V 1.5/2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² (max.AWG20)	max.0.25mm ² (max.AWG24)
Cable outlet	4-6,6-8mm	4-6,6-8mm	4-6,6-8mm	6-8,8-10mm	6-8,8-10mm
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated

Straight cable connectors, shielded Remark: SPQ is 5pcs

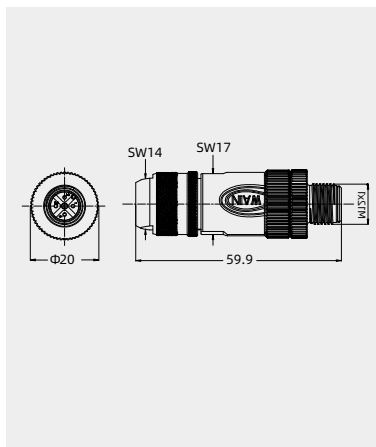
Male cable connector, shielded,
screw clamp connection,
version with shielding ring,
Recommended use



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-M03A-T-D6-SH	163 003 414 2002
	6-8 mm	M12-M03A-T-D8-SH	163 003 414 2003
	8-10 mm	M12-M03A-T-D10-SH	163 003 411 2500
4	4-6 mm	M12-M04A-T-D6-SH	163 004 411 2001
	6-8 mm	M12-M04A-T-D8-SH	163 004 411 2002
	8-10 mm	M12-M04A-T-D10-SH	163 004 411 2503
5	4-6 mm	M12-M05A-T-D6-SH	163 005 411 2001
	6-8 mm	M12-M05A-T-D8-SH	163 005 411 2002
	8-10 mm	M12-M05A-T-D10-SH	163 005 411 2502
8	6-8 mm	M12-M08A-T-D8-SH	163 008 411 2002
	8-10 mm	M12-M08A-T-D10-SH	163 008 411 2500



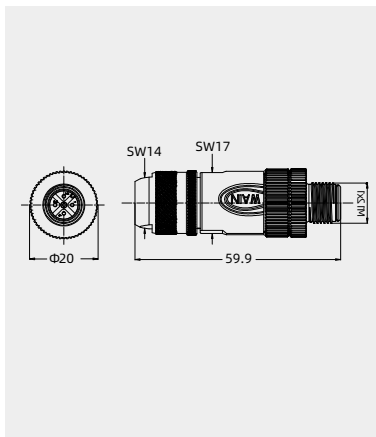
Male cable connector, shielded,
solder, version with shielding ring,
Recommended use



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-MST03A-T-D6-SH	163 003 413 2500
	6-8 mm	M12-MST03A-T-D8-SH	163 003 413 2501
	8-10 mm	M12-MST03A-T-D10-SH	163 003 413 2504
4	4-6 mm	M12-MST04A-T-D6-SH	163 004 413 2001
	6-8 mm	M12-MST04A-T-D8-SH	163 004 413 2002
	8-10 mm	M12-MST04A-T-D10-SH	163 004 413 2503
5	4-6 mm	M12-MST05A-T-D6-SH	163 005 413 2001
	6-8 mm	M12-MST05A-T-D8-SH	163 005 413 2002
	8-10 mm	M12-MST05A-T-D10-SH	163 005 413 2504
8	4-6 mm	M12-MST08A-T-D6-SH	163 008 413 2500
	6-8 mm	M12-MST08A-T-D8-SH	163 008 413 2001
	8-10 mm	M12-MST08A-T-D10-SH	163 008 413 2501
12	6-8 mm	M12-MST12A-T-D8-SH	163 012 413 2003
	8-10 mm	M12-MST12A-T-D10-SH	163 012 411 2500



Hexagonal driver

Remark: SPQ is 1pc

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

125V 4A

Technical characteristics

	5-pole
Rated current (40°C)	4A
Rated voltage	125V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Termination	Crimp terminal
Wire gauge	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8mm
Degree of protection	IP67
Mechanical operation	> 100
Limiting temperature	-40°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	zinc diecasting nickel plated, brass nickel plated

Straight cable connectors, shielded

Remark: SPQ is 5pcs

Male cable connector,

Crimp terminal ,with shielding ring

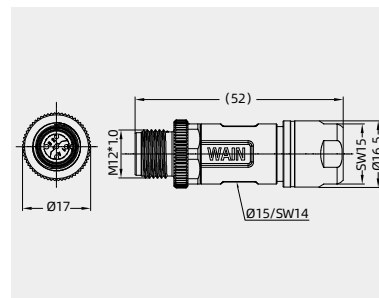
Order crimp contacts separately

Contacts	Cable outlet	Designation	Order No.
5	6-8 mm	M12-MC05A-T-D8-SH	163 005 410 2500

A-Code



5pin



Male cable connector,

Crimp terminal ,with shielding ring

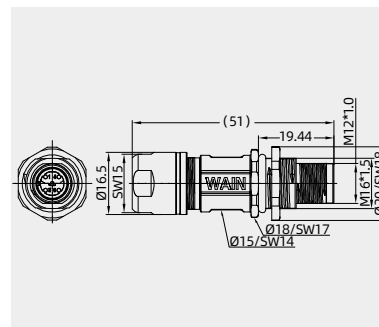
Order crimp contacts separately

Contacts	Cable outlet	Designation	Order No.
5	6-8 mm	M12-MC05A-CCT/R-M16-D8-SH	163 005 710 2001

A-Code



5pin



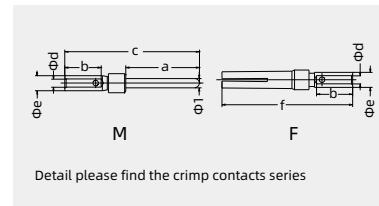
Crimp contacts

Crimp contacts 5A

Contact resistance ≤ 3mΩ
gold plated

Remark: SPQ is 100pcs

Wire gauge(mm ²)	Male	Order No.	Female	Order No.
0.09-0.25	CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
0.13-0.33	CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
0.33-0.52	CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501
0.52-0.82	CSGM-0.82	101 014 210 0701	CSGF-0.82	101 014 220 0701



Detail please find the crimp contacts series

Tools

Crimping tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

M12-A Circular Connector

60V 2A

Technical characteristics



	8-pole
Rated current (40°C)	4A
Rated voltage	125V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Termination	Crimp terminal
Wire gauge	max.0.5mm ² (max.AWG20)
Cable outlet	4-6,6-8,8-10mm
Degree of protection	IP67
Mechanical operation	> 500
Limiting temperature	-40°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	zinc diecasting nickel plated, brass nickel plated

Straight cable connectors

Male cable connector,

Crimp terminal

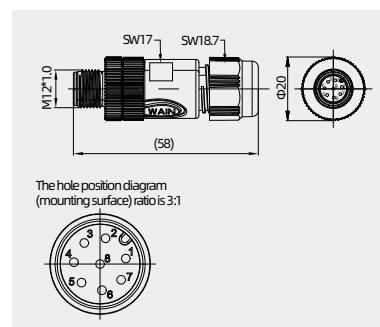
Order crimp contacts separately



A-Code



Contacts	Cable outlet	Designation	Order No.
8	4-6 mm	M12-MC08A-T-D6	163 008 410 3500
	6-8 mm	M12-MC08A-T-D8	163 008 410 3501
	8-10 mm	M12-MC08A-T-D10	163 008 410 3502



Angled cable connectors

Male cable connector,

Crimp terminal

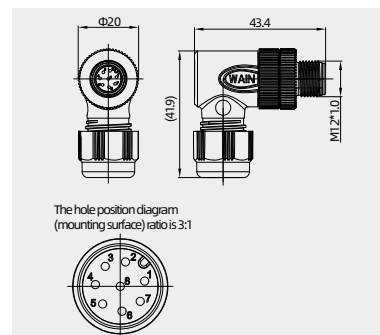
Order crimp contacts separately



A-Code



Contacts	Cable outlet	Designation	Order No.
8	4-6 mm	M12-MC08A-S-D6	163 008 510 3500
	6-8 mm	M12-MC08A-S-D8	163 008 510 3501
	8-10 mm	M12-MC08A-S-D10	163 008 510 3502

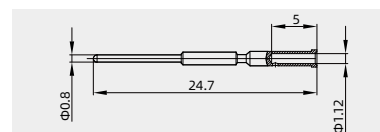


Crimp contacts

Cold-pressed contacts



Wire gauge	Designation	Order No.
Max.0.5	M12-MC2G-0.5	101 012 210 0450



Tools

Remark: SPQ is 1pc

Crimping tool



Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

M12-A Circular Connector

60V 2A

Technical characteristics



	8-pole
Rated current (40°C)	4A
Rated voltage	125V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Termination	Crimp terminal
Wire gauge	max.0.5mm ² (max.AWG20)
Cable outlet	4-6,6-8,8-10mm
Degree of protection	IP67
Mechanical operation	> 500
Limiting temperature	-40°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	zinc diecasting nickel plated, brass nickel plated

Straight cable connectors, shielded

Male cable connector,

Crimp terminal ,with shielding ring

Order crimp contacts separately

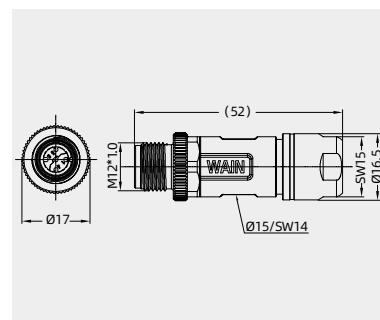


A-Code



8pin

Contacts	Cable outlet	Designation	Order No.
8	4-6 mm	M12-MC08A-T-D6-SH	163 008 410 2507
	6-8 mm	M12-MC08A-T-D8-SH	163 008 410 2500
	8-10 mm	M12-MC08A-T-D10-SH	163 008 410 2503



M12-A

Angled cable connectors, shielded

Male cable connector,

Crimp terminal ,with shielding ring

Order crimp contacts separately

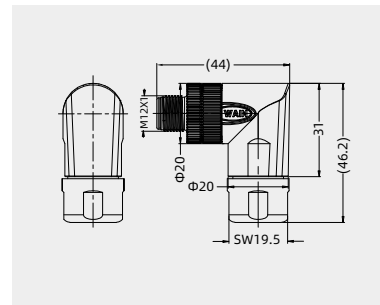


A-Code



8pin

Contacts	Cable outlet	Designation	Order No.
8	4-6 mm	M12-MC08A-S-D6-SH	163 008 510 2500
	6-8 mm	M12-MC08A-S-D8-SH	163 008 510 2501

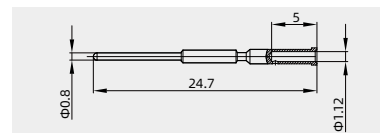


Crimp contacts

Cold-pressed contacts



Wire gauge	Designation	Order No.
Max.0.5	M12-MC2G-0.5	101 012 210 0450



Tools

Remark: SPQ is 1pc

Crimping tool



Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	4A	2A
Rated voltage	250V	250V	125V	60V
Rated impulse voltage	2500V	2500V	1500V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT

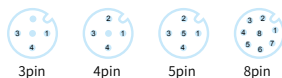
Angled cable connectors

Remark: SPQ is 1pc

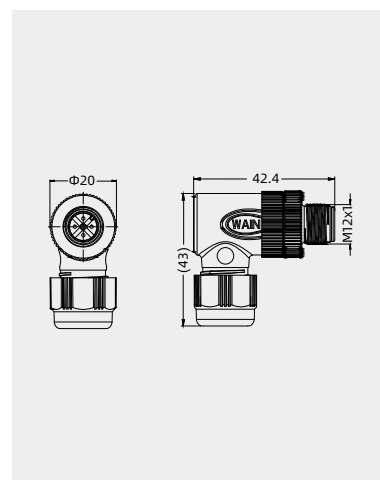
Male cable connector, plastic locking system, screw clamp connection



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-M03A-S-D6	163 003 511 3101
	6-8 mm	M12P-M03A-S-D8	163 003 511 3102
4	4-6 mm	M12P-M04A-S-D6	163 004 511 3101
	6-8 mm	M12P-M04A-S-D8	163 004 511 3102
5	4-6 mm	M12P-M05A-S-D6	163 005 511 3101
	6-8 mm	M12P-M05A-S-D8	163 005 511 3102



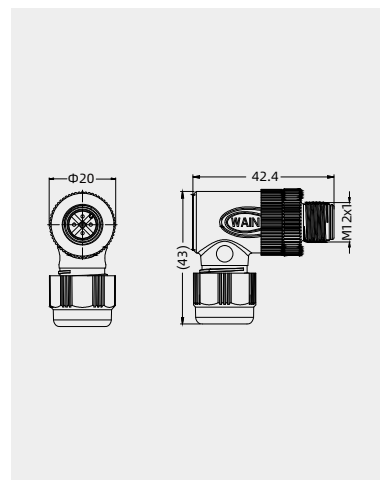
Male cable connector, plastic locking system, solder



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-MST03A-S-D6	163 003 513 3500
	6-8 mm	M12P-MST03A-S-D8	163 003 513 3501
4	4-6 mm	M12P-MST04A-S-D6	163 004 513 3500
	6-8 mm	M12P-MST04A-S-D8	163 004 513 3501
5	4-6 mm	M12P-MST05A-S-D6	163 005 513 3500
	6-8 mm	M12P-MST05A-S-D8	163 005 513 3501
8	4-6 mm	M12P-MST08A-S-D6	163 008 513 3500
	6-8 mm	M12P-MST08A-S-D8	163 008 513 3501



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	4A	2A
Rated voltage	250V	250V	125V	60V
Rated impulse voltage	2500V	2500V	1500V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Angled cable connectors

Remark: SPQ is 1pc

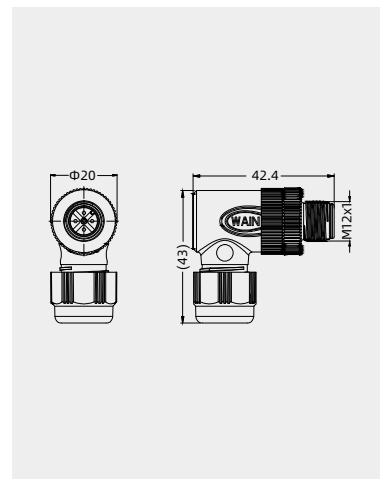
Male cable duo connector,
metal locking system,
screw clamp connection



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-M03A-S-D6	163 003 511 3001
	6-8 mm	M12-M03A-S-D8	163 003 511 3002
4	4-6 mm	M12-M04A-S-D6	163 004 511 3001
	6-8 mm	M12-M04A-S-D8	163 004 511 3002
5	4-6 mm	M12-M05A-S-D6	163 005 511 3001
	6-8 mm	M12-M05A-S-D8	163 005 511 3002



M12-A

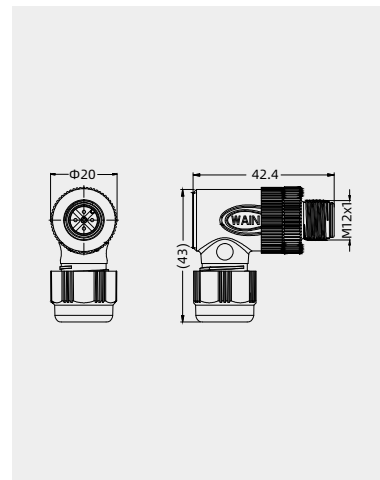
Male cable duo connector,
metal locking system,solder



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-MST03A-S-D6	163 003 513 3502
	6-8 mm	M12-MST03A-S-D8	163 003 513 3503
4	4-6 mm	M12-MST04A-S-D6	163 004 513 3502
	6-8 mm	M12-MST04A-S-D8	163 004 513 3503
5	4-6 mm	M12-MST05A-S-D6	163 005 513 3502
	6-8 mm	M12-MST05A-S-D8	163 005 513 3503
8	4-6 mm	M12-MST08A-S-D6	163 008 513 3502
	6-8 mm	M12-MST08A-S-D8	163 008 513 3503



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	4A	2A
Rated voltage	250V	250V	125V	60V
Rated impulse voltage	2500V	2500V	1500V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Angled cable connectors

Remark: SPQ is 1pc

Male cable connector, stainless steel
locking system, screw clamp connection

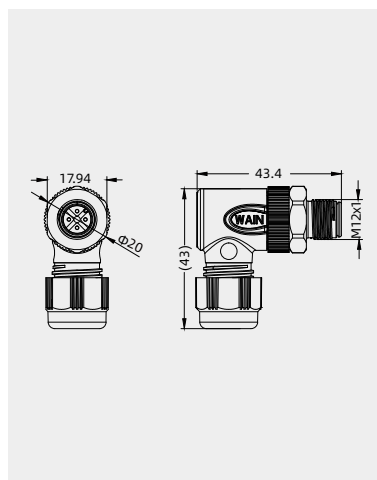
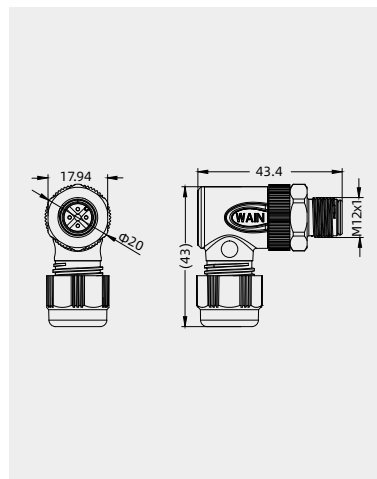
Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12S-M03A-S-D6	163 003 414 1001
	6-8 mm	M12S-M03A-S-D8	163 003 514 1001
4	4-6 mm	M12S-M04A-S-D6	163 004 511 3201
	6-8 mm	M12S-M04A-S-D8	163 004 511 3202
5	4-6 mm	M12S-M05A-S-D6	163 005 511 3201
	6-8 mm	M12S-M05A-S-D8	163 005 511 3202

A-Code

Male cable connector, stainless steel
locking system, solder

Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12S-MST03A-S-D6	163 003 513 3504
	6-8 mm	M12S-MST03A-S-D8	163 003 513 3505
4	4-6 mm	M12S-MST04A-S-D6	163 004 513 3504
	6-8 mm	M12S-MST04A-S-D8	163 004 513 3505
5	4-6 mm	M12S-MST05A-S-D6	163 005 513 3504
	6-8 mm	M12S-MST05A-S-D8	163 005 513 3505
8	4-6 mm	M12S-MST08A-S-D6	163 008 513 3504
	6-8 mm	M12S-MST08A-S-D8	163 008 513 3505

A-Code

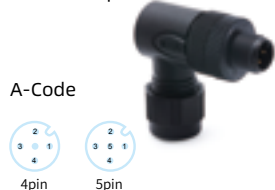


M12-A Circular Connector

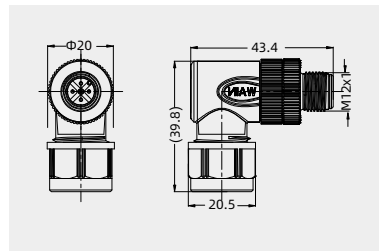
125/250V 4A

Technical characteristics

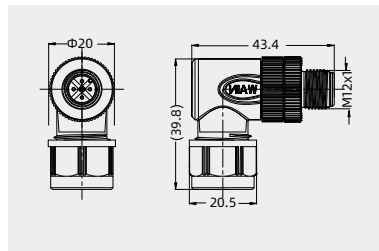
	4-pole	5-pole
Rated current (40°C)	4A	4A
Rated voltage	250V	125V
Rated impulse voltage	2500V	1500V
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	2.1-3,4-5 mm	2.1-3,4-5 mm
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PA	PA
Material of housing	PA/PBT	PA/PBT

Angled cable duo connectors Remark: SPQ is 1pcMale angled duo connector,
plastic locking system,
screw clamp connection

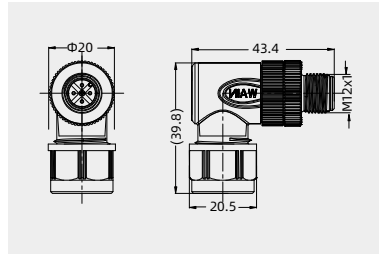
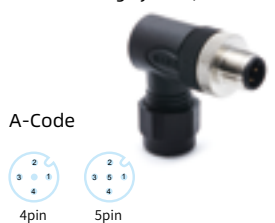
Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12P-M04A-S-2D5	163 004 511 3104
5	2(2.1-3 mm or 4-5 mm)	M12P-M05A-S-2D5	163 005 511 3104

Male angled duo connector,
plastic locking system, solder

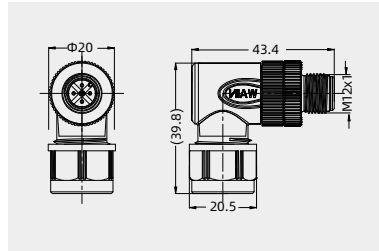
Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12P-MST04A-S-2D5	163 004 513 3506
5	2(2.1-3 mm or 4-5 mm)	M12P-MST05A-S-2D5	163 005 513 3506

Male angled duo connector,
metal locking system, screw
clamp connection

Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12-M04A-S-2D5	163 004 511 3004
5	2(2.1-3 mm or 4-5 mm)	M12-M05A-S-2D5	163 005 511 3004

Male angled duo connector,
metal locking system, solder

Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12-MST04A-S-2D5	1630045133507
5	2(2.1-3 mm or 4-5 mm)	M12-MST05A-S-2D5	1630055133507



M12-A

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

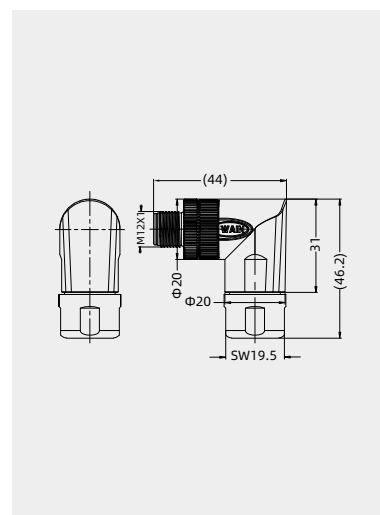
	3-pole	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	4A	2A
Rated voltage	250V	250V	125V	60V
Rated impulse voltage	2500V	2500V	1500V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated

Angled cable connectors, shielded Remark: SPQ is 1pc

Male angled connector, shielded,
screw clamp connection,
version with shielding ring



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-M03A-S-D6-SH	163 003 414 2001
	6-8 mm	M12-M03A-S-D8-SH	163 003 514 2001
4	4-6 mm	M12-M04A-S-D6-SH	163 004 511 2001
	6-8 mm	M12-M04A-S-D8-SH	163 004 511 2002
5	4-6 mm	M12-M05A-S-D6-SH	163 005 511 2001
	6-8 mm	M12-M05A-S-D8-SH	163 005 511 2002



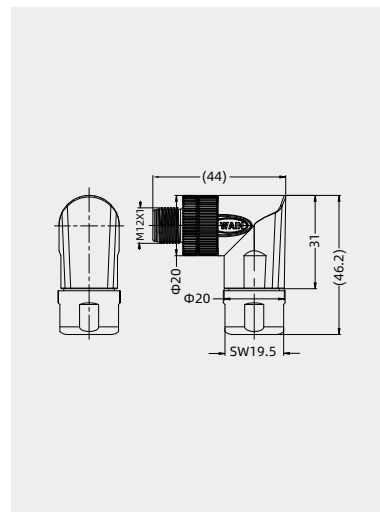
A-Code



Male angled connector, shielded,
solder, version with shielding ring



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-MST03A-S-D6-SH	163 003 513 2500
	6-8 mm	M12-MST03A-S-D8-SH	163 003 513 2501
4	4-6 mm	M12-MST04A-S-D6-SH	163 004 513 2500
	6-8 mm	M12-MST04A-S-D8-SH	163 004 513 2501
5	4-6 mm	M12-MST05A-S-D6-SH	163 005 513 2500
	6-8 mm	M12-MST05A-S-D8-SH	163 005 513 2501
8	4-6 mm	M12-MST08A-S-D6-SH	163 008 513 2500
	6-8 mm	M12-MST08A-S-D8-SH	163 008 513 2501



A-Code



M12-A Circular Connector

30/60/125/250V 1.5/2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² max.AWG20)	max.0.25mm ² max.AWG24)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	6-8 mm	6-8 mm
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Straight cable connectors

Remark: SPQ is 5pcs

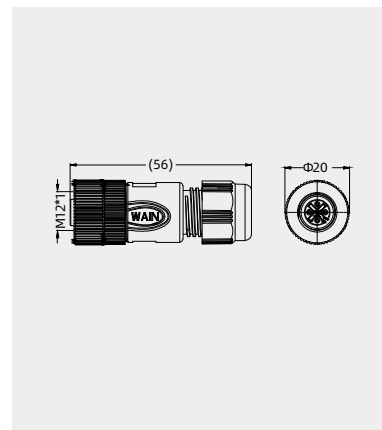
Female cable connector,
plastic locking system,
screw clamp connection



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-F03A-T-D6	163 003 421 3101
	6-8 mm	M12P-F03A-T-D8	163 003 421 3102
4	4-6 mm	M12P-F04A-T-D6	163 004 421 3101
	6-8 mm	M12P-F04A-T-D8	163 004 421 3102
5	4-6 mm	M12P-F05A-T-D6	163 005 421 3101
	6-8 mm	M12P-F05A-T-D8	163 005 421 3102
8	6-8 mm	M12P-F08A-T-D8	163 008 424 3002



M12-A

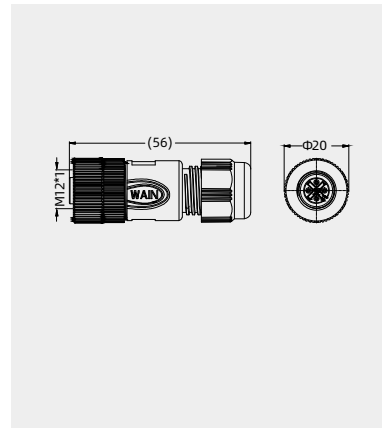
Female cable connector,
plastic locking system,solder



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-FST03A-T-D6	163 003 423 3500
	6-8 mm	M12P-FST03A-T-D8	163 003 423 3501
4	4-6 mm	M12P-FST04A-T-D6	163 004 423 3500
	6-8 mm	M12P-FST04A-T-D8	163 004 423 3501
5	4-6 mm	M12P-FST05A-T-D6	163 005 423 3500
	6-8 mm	M12P-FST05A-T-D8	163 005 423 3501
8	4-6 mm	M12P-FST08A-T-D6	163 008 423 3502
	6-8 mm	M12P-FST08A-T-D8	163 008 423 3503
12	6-8 mm	M12P-FST12A-T-D8	163 012 423 3003



Hexagonal driver

Remark: SPQ is 1pc



Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

30/60/125/250V 1.5/2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² max.AWG20)	max.0.25mm ² max.AWG24)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	6-8 mm	6-8 mm
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Straight cable connectors **Remark: SPQ is 5pcs**

Female cable connector,
metal locking system,
screw clamp connection
Recommended use

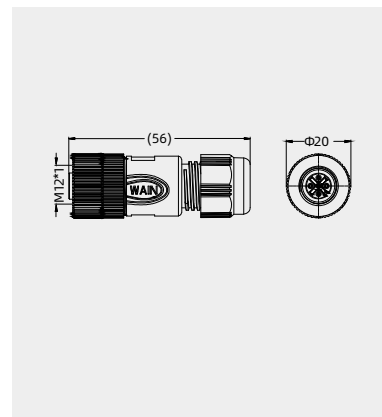


A-Code



12pin

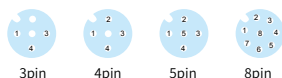
Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-F03A-T-D6	163 003 421 3001
	6-8 mm	M12-F03A-T-D8	163 003 421 3002
4	4-6 mm	M12-F04A-T-D6	163 004 421 3001
	6-8 mm	M12-F04A-T-D8	163 004 421 3002
5	4-6 mm	M12-F05A-T-D6	163 005 421 3001
	6-8 mm	M12-F05A-T-D8	163 005 421 3002
8	6-8 mm	M12-F08A-T-D8	163 008 421 3002



Female cable connector,
metal locking system,solder
Recommended use

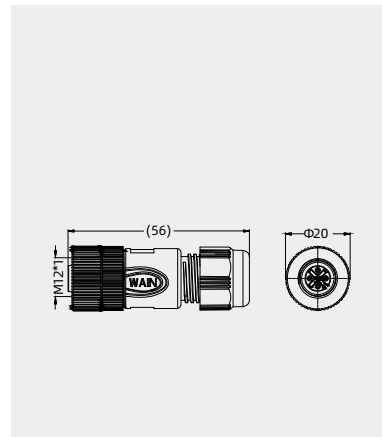


A-Code



12pin

Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-FST03A-T-D6	163 003 423 3504
	6-8 mm	M12-FST03A-T-D8	163 003 423 3505
4	4-6 mm	M12-FST04A-T-D6	163 004 423 3508
	6-8 mm	M12-FST04A-T-D8	163 004 423 3509
5	4-6 mm	M12-FST05A-T-D6	163 005 423 3508
	6-8 mm	M12-FST05A-T-D8	163 005 423 3509
8	4-6 mm	M12-FST08A-T-D6	163 008 423 3510
	6-8 mm	M12-FST08A-T-D8	163 008 423 3501
12	6-8 mm	M12-FST12A-T-D8	163 012 423 3002



Hexagonal driver

**Remark: SPQ is 1pc**

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

30/60/125/250V 1.5/2/4A

Technical characteristics

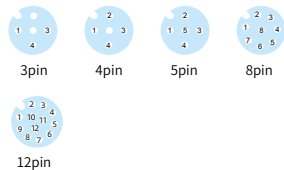
	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² max.AWG20)	max.0.25mm ² max.AWG24)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	6-8 mm	6-8 mm
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Straight cable connectors **Remark: SPQ is 5pcs**

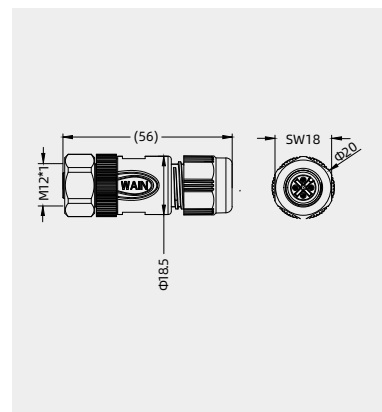
Female cable connector,
stainless steel locking system,
screw clamp connection,



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12S-F03A-T-D6	163 003 424 1001
	6-8 mm	M12S-F03A-T-D8	163 003 424 1002
4	4-6 mm	M12S-F04A-T-D6	163 004 421 3201
	6-8 mm	M12S-F04A-T-D8	163 004 421 3202
5	4-6 mm	M12S-F05A-T-D6	163 005 421 3201
	6-8 mm	M12S-F05A-T-D8	163 005 421 3202
8	6-8 mm	M12S-F08A-T-D8	163 008 421 3202

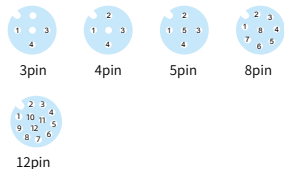


M12-A

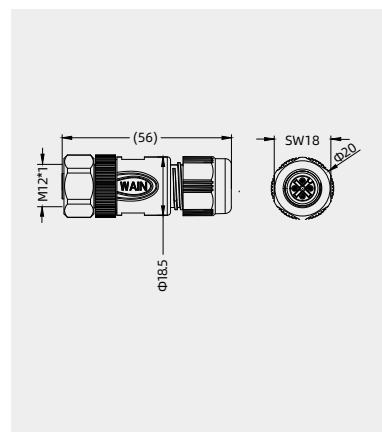
Female cable connector,
stainless steel locking system,solder



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12S-FST03A-T-D6	163 003 423 3502
	6-8 mm	M12S-FST03A-T-D8	163 003 423 3503
4	4-6 mm	M12S-FST04A-T-D6	163 004 423 3502
	6-8 mm	M12S-FST04A-T-D8	163 004 423 3503
5	4-6 mm	M12S-FST05A-T-D6	163 005 423 3502
	6-8 mm	M12S-FST05A-T-D8	163 005 423 3503
8	4-6 mm	M12S-FST08A-T-D6	163 008 423 3509
	6-8 mm	M12S-FST08A-T-D8	163 008 423 3504
12	6-8 mm	M12S-FST12A-T-D8	163 012 423 3004



Hexagonal driver

**Remark: SPQ is 1pc**

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

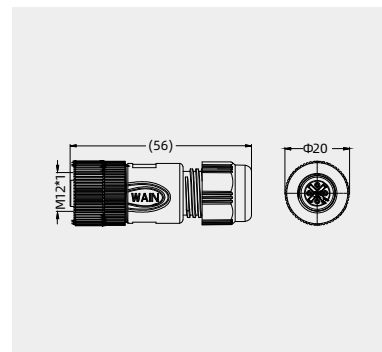
30/125/250V 1.5/2/8A

Technical characteristics

	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	8A	Contacts:1-4 8A; Contacts:5 2A	Contacts: 2A	1.5A
Rated voltage	250V	125V	125V	30V
Rated impulse voltage	2500V	1500V	1500V9	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.1.5mm ² (max.AWG16)	max.1.5mm ² (max.AWG16)	max.1.5mm ² (max.AWG16)	max.0.25mm ² max.AWG24)
Cable outlet	8-10mm	8-10mm	8-10mm	6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Straight cable connectors Remark: SPQ is 5pcsFemale cable connector, Power,
screw clamp with ferules

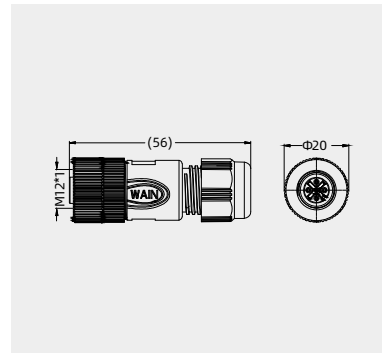
Contacts	Cable outlet	Designation	Order No.
4	8-10 mm	M12-F04A-T-D10	163 004 421 3003
5	8-10 mm	M12-F05A-T-D10	163 005 421 3003
8	8-10 mm	M12-F08A-T-D10	163 008 424 1002



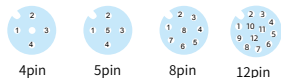
A-Code

Female cable connector, Power,
solder

Contacts	Cable outlet	Designation	Order No.
4	8-10 mm	M12-FST04A-T-D10	163 004 423 3504
5	8-10 mm	M12-FST05A-T-D10	163 005 423 3504
8	8-10 mm	M12-FST08A-T-D10	163 008 423 3505
12	8-10 mm	M12-FST12A-T-D10	163 012 423 3001



A-Code



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250(125)V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² (max.AWG20)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT

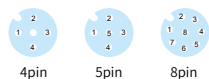
Straight cable duo connectors

Remark: SPQ is 5pcs

Female cable connector,
plastic locking system,
screw clamp connection

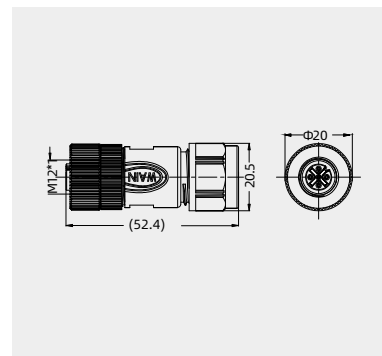


A-Code



4pin 5pin 8pin

Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12P-F04A-T-2D5	163 004 421 3104
5	2(2.1-3 mm or 4-5 mm)	M12P-F05A-T-2D5	163 005 421 3104
8	2(2.1-3 mm or 4-5 mm)	M12P-F08A-T-2D5	163 008 424 3001



M12-A

Female cable connector,
plastic locking system, solder

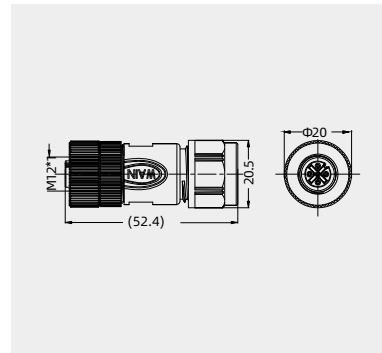


A-Code



4pin 5pin 8pin

Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12P-FST04A-T-2D5	163 004 423 3505
5	2(2.1-3 mm or 4-5 mm)	M12P-FST05A-T-2D5	163 005 423 3505
8	2(2.1-3 mm or 4-5 mm)	M12P-FST08A-T-2D5	163 008 423 3506



Hexagonal driver



Remark: SPQ is 1pc

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

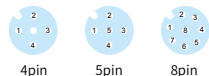
	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250(125)V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² (max.AWG20)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT

Straight cable duo connectors Remark: SPQ is 5pcs

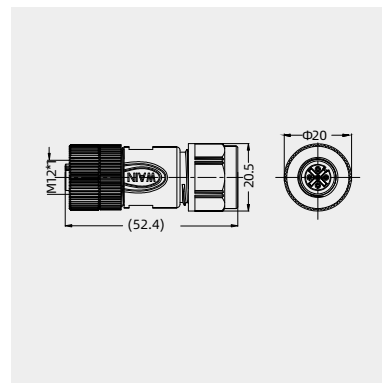
Female cable duo connector,
metal locking system,
screw clamp connection



A-Code



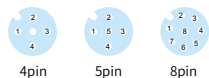
Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12-F04A-T-2D5	163 004 421 3105
5	2(2.1-3 mm or 4-5 mm)	M12-F05A-T-2D5	163 005 421 3105
8	2(2.1-3 mm or 4-5 mm)	M12-F08A-T-2D5	163 008 424 1001



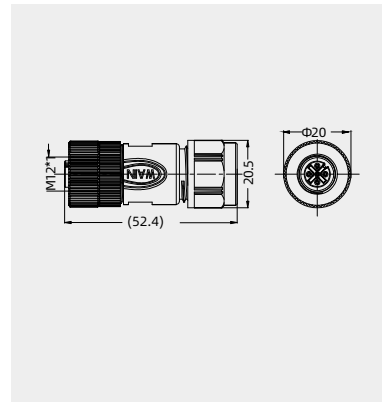
Female cable duo connector,
metal locking system, solder



A-Code



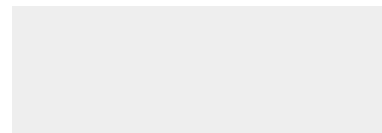
Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12-FST04A-T-2D5	163 004 423 3506
5	2(2.1-3 mm or 4-5 mm)	M12-FST05A-T-2D5	163 005 423 3506
8	2(2.1-3 mm or 4-5 mm)	M12-FST08A-T-2D5	163 008 423 3507



Hexagonal driver

Remark: SPQ is 1pc

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

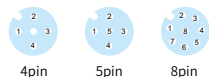
	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250(125)V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² (max.AWG20)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT

Straight cable duo connectors **Remark: SPQ is 5pcs**

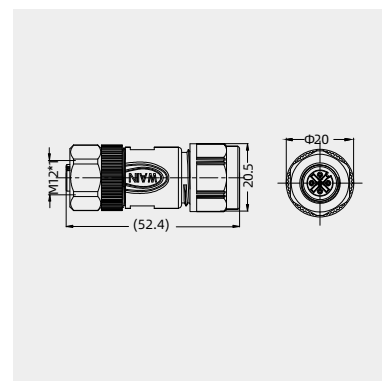
Female cable connector,
stainless steel locking system,
screw clamp connection,



A-Code



Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12S-F04A-T-2D5	163 004 421 3204
5	2(2.1-3 mm or 4-5 mm)	M12S-F05A-T-2D5	163 005 421 3204
8	2(2.1-3 mm or 4-5 mm)	M12S-F08A-T-2D5	163 008 421 3204

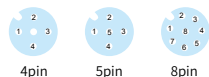


M12-A

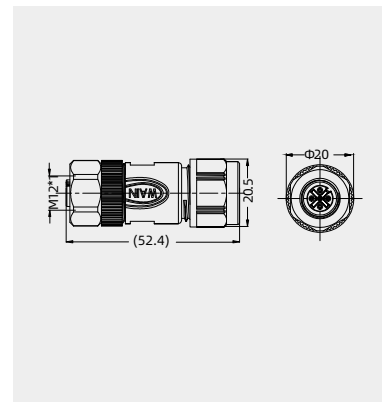
Female cable connector,
stainless steel locking system,
solder



A-Code



Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12S-FST04A-T-2D5	163 004 423 3507
5	2(2.1-3 mm or 4-5 mm)	M12S-FST05A-T-2D5	163 005 423 3507
8	2(2.1-3 mm or 4-5 mm)	M12S-FST08A-T-2D5	163 008 423 3508



Hexagonal driver

**Remark: SPQ is 1pc**

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

125/250V 4A

Technical characteristics

	4-pole	5-pole
Rated current (40°C)	4A	4A
Rated voltage	250V	125V
Rated impulse voltage	2500V	1500V
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	2.1-3,4-5 mm	2.1-3,4-5 mm
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PA	PA
Material of housing	PA/PBT	PA/PBT

Angled cable duo connectors Remark: SPQ is 1pc

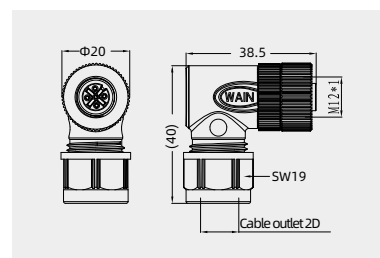
Female angled duo connector,
plastic locking system,
screw clamp connection



A-Code



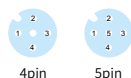
Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12P-F04A-S-2D5	163 004 502 3001
5	2(2.1-3 mm or 4-5 mm)	M12P-F05A-S-2D5	163 005 502 3001



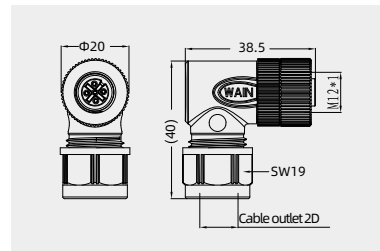
Female angled duo connector,
plastic locking system, solder



A-Code



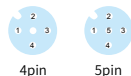
Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12P-FST04A-S-2D5	163 004 523 3506
5	2(2.1-3 mm or 4-5 mm)	M12P-FST05A-S-2D5	163 005 523 3506



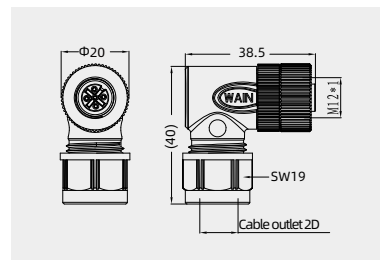
Female angled duo connector,
metal locking system,
screw clamp connection



A-Code



Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12-F04A-S-2D5	163 004 502 1001
5	2(2.1-3 mm or 4-5 mm)	M12-F05A-S-2D5	163 005 502 1001



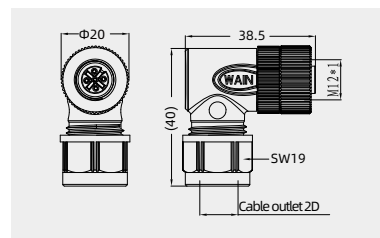
Female angled duo connector,
metal locking system, solder



A-Code



Contacts	Cable outlet	Designation	Order No.
4	2(2.1-3 mm or 4-5 mm)	M12-FST04A-S-2D5	163 004 523 3507
5	2(2.1-3 mm or 4-5 mm)	M12-FST05A-S-2D5	163 005 523 3507



M12-A Circular Connector

30/60/125/250V 1.5/2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² (max.AWG20)	max.0.25mm ² (max.AWG24)
Cable outlet	4-6,6-8mm,8-10mm	4-6,6-8mm,8-10mm	4-6,6-8mm,8-10mm	6-8,8-10mm	6-8,8-10mm
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated

Straight cable connectors, shielded Remark: SPQ is 5pcs

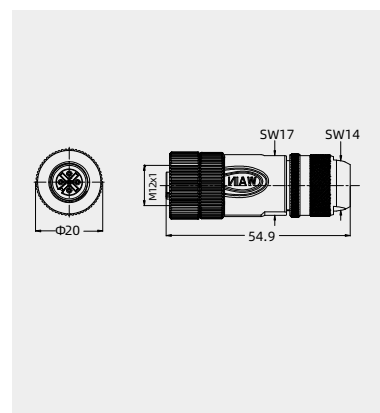
Female cable connector, shielded,

screw clamp connection,
version with shielding ringRecommended use

A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-F03A-T-D6-SH	163 003 421 2001
	6-8 mm	M12-F03A-T-D8-SH	163 003 421 2002
	8-10 mm	M12-F03A-T-D10-SH	163 003 421 2500
4	4-6 mm	M12-F04A-T-D6-SH	163 004 421 2001
	6-8 mm	M12-F04A-T-D8-SH	163 004 421 2002
	8-10 mm	M12-F04A-T-D10-SH	163 004 421 2502
5	4-6 mm	M12-F05A-T-D6-SH	163 005 421 2001
	6-8 mm	M12-F05A-T-D8-SH	163 005 421 2002
	8-10 mm	M12-F05A-T-D10-SH	163 005 421 2502
8	6-8 mm	M12-F08A-T-D8-SH	163 008 421 2002
	8-10 mm	M12-F08A-T-D10-SH	163 008 421 2500



M12-A

Female cable connector, shielded,

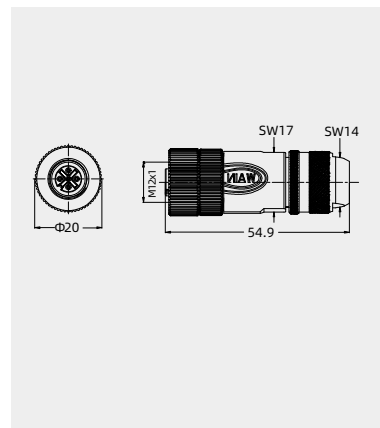
solder, version with shielding ring

Recommended use

A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-FST03A-T-D6-SH	163 003 423 2500
	6-8 mm	M12-FST03A-T-D8-SH	163 003 423 2501
	8-10 mm	M12-FST03A-T-D10-SH	163 003 423 2506
4	4-6 mm	M12-FST04A-T-D6-SH	163 004 423 2500
	6-8 mm	M12-FST04A-T-D8-SH	163 004 423 2002
	8-10 mm	M12-FST04A-T-D10-SH	163 004 423 2505
5	4-6 mm	M12-FST05A-T-D6-SH	163 005 423 2001
	6-8 mm	M12-FST05A-T-D8-SH	163 005 423 2002
	8-10 mm	M12-FST05A-T-D10-SH	163 005 423 2504
8	4-6 mm	M12-FST08A-T-D6-SH	163 008 423 2501
	6-8 mm	M12-FST08A-T-D8-SH	163 008 423 2500
	8-10 mm	M12-FST08A-T-D10-SH	163 008 423 2502
12	6-8 mm	M12-FST12A-T-D8-SH	163 012 423 2003
	8-10 mm	M12-FST12A-T-D10-SH	163 012 421 2500



Hexagonal driver

Remark: SPQ is 1pc

Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016

M12-A Circular Connector

125V 4A

Technical characteristics

	5-pole
Rated current (40°C)	4A
Rated voltage	125V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Termination	screw
Wire gauge	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8mm
Degree of protection	IP67
Mechanical operation	> 100
Limiting temperature	-40°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	zinc diecasting nickel plated, brass nickel plated

Straight cable connectors, shielded

Female cable connector,
Crimp terminal ,with shielding ring
Order crimp contacts separately

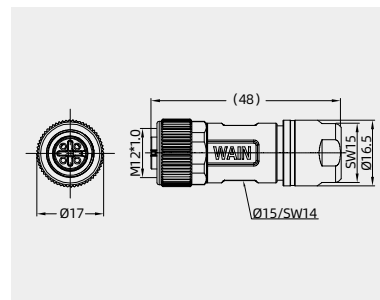
Remark: SPQ is 5pcs

Contacts	Cable outlet	Designation	Order No.
5	6-8 mm	M12-FC05A-T-D8-SH	163 005 420 2501

A-Code



5pin



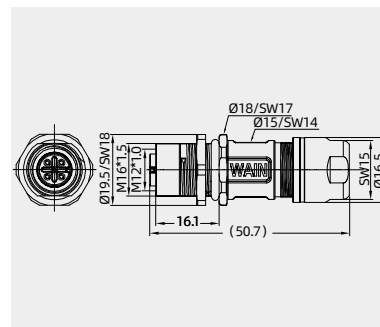
Female cable connector,
Crimp terminal ,with shielding ring
Order crimp contacts separately

Contacts	Cable outlet	Designation	Order No.
5	6-8 mm	M12-FC05A-CCT/R-M16-D8-SH	163 005 720 2001

A-Code



5pin



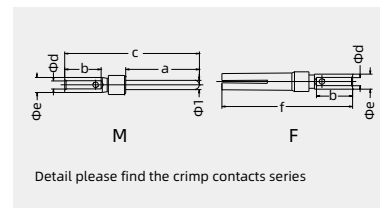
Crimp contacts

Crimp contacts 5A

Contact resistance ≤ 3mΩ
gold plated

Remark: SPQ is 1000pcs

Wire gauge(mm ²)	Male	Order No.	Female	Order No.
0.09-0.25	CSGM-0.25	101 014 210 0101	CSGF-0.25	101 014 220 0101
0.13-0.33	CSGM-0.33	101 014 210 0201	CSGF-0.33	101 014 220 0201
0.33-0.52	CSGM-0.52	101 014 210 0501	CSGF-0.52	101 014 220 0501
0.52-0.82	CSGM-0.82	101 014 210 0701	CSGF-0.82	101 014 220 0701



Detail please find the crimp contacts series

Tools

Crimping tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

M12-A Circular Connector

60V 2A

Technical characteristics

	8-pole
Rated current (40°C)	4A
Rated voltage	125V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Termination	Crimp terminal
Wire gauge	max.0.5mm ² (max.AWG20)
Cable outlet	4-6,6-8,8-10mm
Degree of protection	IP67
Mechanical operation	> 500
Limiting temperature	-40°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	zinc diecasting nickel plated, brass nickel plated

Straight cable connectors

Female cable connector,

Crimp terminal

Order crimp contacts separately

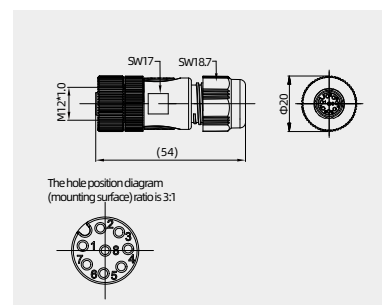


A-Code



8pin

Contacts	Cable outlet	Designation	Order No.
8	4-6 mm	M12-FC08A-T-D6	163 008 420 3500
	6-8 mm	M12-FC08A-T-D8	163 008 420 3501
	8-10 mm	M12-FC08A-T-D10	163 008 420 3502



Female angled duo connector,

Crimp terminal

Order crimp contacts separately

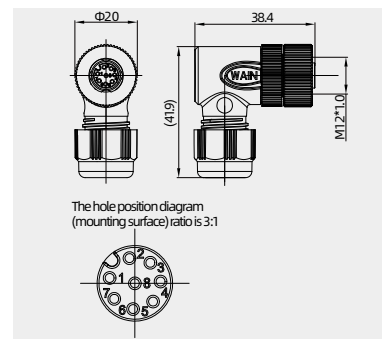


A-Code



8pin

Contacts	Cable outlet	Designation	Order No.
8	4-6 mm	M12-FC08A-S-D6	163 008 520 3500
	6-8 mm	M12-FC08A-S-D8	163 008 520 3501
	8-10 mm	M12-FC08A-S-D10	163 008 520 3502

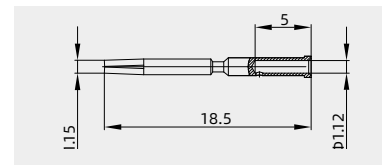


Crimp contacts

Cold-pressed contacts



Wire gauge	Designation	Order No.
Max.0.5	M12-FC2G-0.5	101 012 220 0450



Tools

Remark: SPQ is 1pc

Crimping tool



Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

M12-A Circular Connector

125V 4A

Technical characteristics



	8-pole
Rated current (40°C)	4A
Rated voltage	125V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Termination	Crimp terminal
Wire gauge	max.0.5mm ² (max.AWG20)
Cable outlet	4-6,6-8,8-10mm
Degree of protection	IP67
Mechanical operation	> 500
Limiting temperature	-40°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	zinc diecasting nickel plated, brass nickel plated

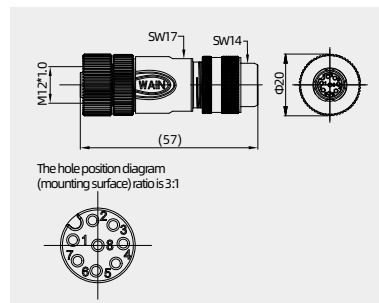
Straight cable connectors, shielded

Female cable connector,

Crimp terminal ,with shielding ring

Order crimp contacts separately

Contacts	Cable outlet	Designation	Order No.
8	4-6 mm	M12-FC08A-T-D6-SH	163 008 420 2508
	6-8 mm	M12-FC08A-T-D8-SH	163 008 420 2503
	8-10 mm	M12-FC08A-T-D10-SH	163 008 420 2507



A-Code



8pin

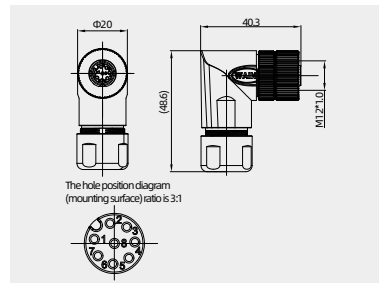
Angled cable connectors, shielded

Female angled duo connector,

Crimp terminal ,with shielding ring

Order crimp contacts separately

Contacts	Cable outlet	Designation	Order No.
8	4-6 mm	M12-FC08A-S-D6-SH	163 008 520 2501
	6-8 mm	M12-FC08A-S-D8-SH	163 008 520 2502



A-Code

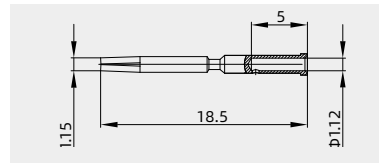


8pin

Crimp contacts

Cold-pressed contacts

Wire gauge	Designation	Order No.
Max.0.5	M12-FC2G-0.5	101 012 220 0450



Tools

Remark: SPQ is 1pc

Crimping tool

Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002



Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	4A	2A
Rated voltage	250V	250V	125V	60V
Rated impulse voltage	2500V	2500V	1500V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT

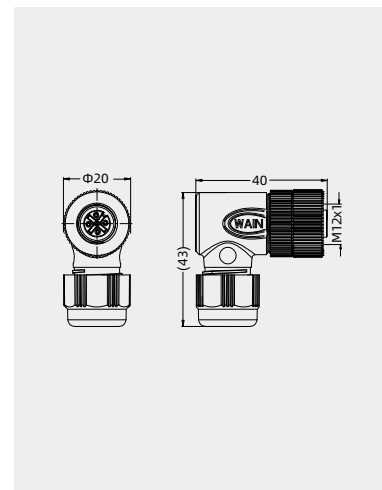
Angled cable connectors

Female cable connector,
plastic locking system,
screw clamp connection



Remark: SPQ is 1pc

Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-F03A-S-D6	163 003 521 3101
	6-8 mm	M12P-F03A-S-D8	163 003 521 3102
4	4-6 mm	M12P-F04A-S-D6	163 004 521 3101
	6-8 mm	M12P-F04A-S-D8	163 004 521 3102
5	4-6 mm	M12P-F05A-S-D6	163 005 521 3101
	6-8 mm	M12P-F05A-S-D8	163 005 521 3102



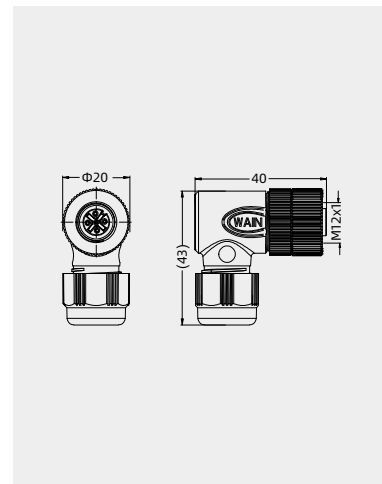
A-Code



Female cable connector,
plastic locking system,solder



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-FST03A-S-D6	163 003 523 3501
	6-8 mm	M12P-FST03A-S-D8	163 003 523 3502
4	4-6 mm	M12P-FST04A-S-D6	163 004 523 3500
	6-8 mm	M12P-FST04A-S-D8	163 004 523 3501
5	4-6 mm	M12P-FST05A-S-D6	163 005 523 3500
	6-8 mm	M12P-FST05A-S-D8	163 005 523 3501
8	4-6 mm	M12P-FST08A-S-D6	163 008 523 3500
	6-8 mm	M12P-FST08A-S-D8	163 008 523 3501



A-Code



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	4A	2A
Rated voltage	250V	250V	125V	60V
Rated impulse voltage	2500V	2500V	1500V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Angled cable connectors **Remark: SPQ is 1pc**

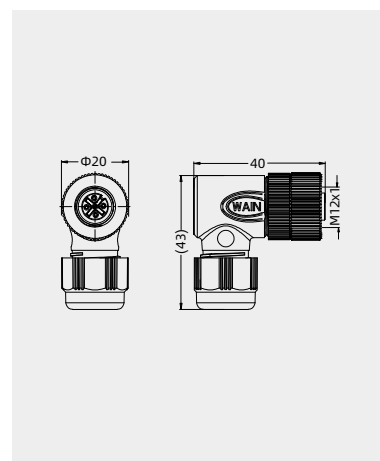
Female angled connector,
metal locking system,
screw clamp connection
Recommended use



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-F03A-S-D6	163 003 521 3001
	6-8 mm	M12-F03A-S-D8	163 003 521 3002
4	4-6 mm	M12-F04A-S-D6	163 004 521 3001
	6-8 mm	M12-F04A-S-D8	163 004 521 3002
5	4-6 mm	M12-F05A-S-D6	163 005 521 3001
	6-8 mm	M12-F05A-S-D8	163 005 521 3002



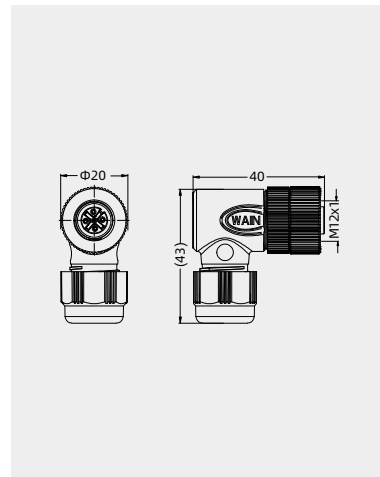
Female angled connector,
metal locking system,solder
Recommended use



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-FST03A-S-D6	163 003 523 3500
	6-8 mm	M12-FST03A-S-D8	163 003 523 3503
4	4-6 mm	M12-FST04A-S-D6	163 004 523 3502
	6-8 mm	M12-FST04A-S-D8	163 004 523 3503
5	4-6 mm	M12-FST05A-S-D6	163 005 523 3502
	6-8 mm	M12-FST05A-S-D8	163 005 523 3503
8	4-6 mm	M12-FST08A-S-D6	163 008 523 3502
	6-8 mm	M12-FST08A-S-D8	163 008 523 3503



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	4A	2A
Rated voltage	250V	250V	125V	60V
Rated impulse voltage	2500V	2500V	1500V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Angled cable connectors Remark: SPQ is 1pc

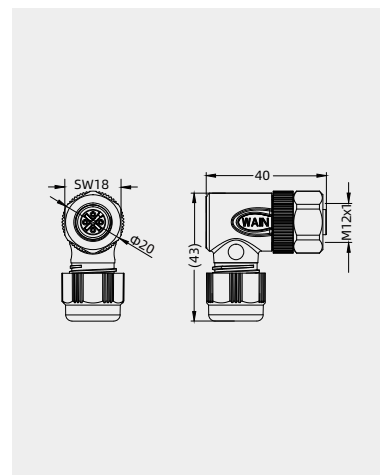
Female cable connector,
stainless steel locking system,
screw clamp connection,



A-Code



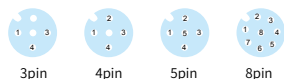
Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12S-F03A-S-D6	163 003 524 1001
	6-8 mm	M12S-F03A-S-D8	163 003 524 1002
4	4-6 mm	M12S-F04A-S-D6	163 004 521 3201
	6-8 mm	M12S-F04A-S-D8	163 004 521 3202
5	4-6 mm	M12S-F05A-S-D6	163 005 521 3201
	6-8 mm	M12S-F05A-S-D8	163 005 521 3202



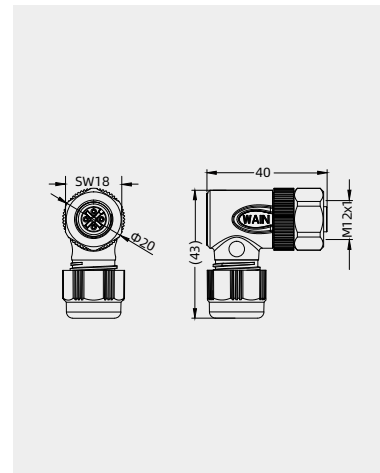
Female cable connector,
stainless steel locking system,
solder



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12S-FST03A-S-D6	163 003 523 3504
	6-8 mm	M12S-FST03A-S-D8	163 003 523 3505
4	4-6 mm	M12S-FST04A-S-D6	163 004 523 3504
	6-8 mm	M12S-FST04A-S-D8	163 004 523 3505
5	4-6 mm	M12S-FST05A-S-D6	163 005 523 3504
	6-8 mm	M12S-FST05A-S-D8	163 005 523 3505
8	4-6 mm	M12S-FST08A-S-D6	163 008 523 3504
	6-8 mm	M12S-FST08A-S-D8	163 008 523 3505



M12-A

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	4A	2A
Rated voltage	250V	250V	125V	60V
Rated impulse voltage	2500V	2500V	1500V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated

Angled cable connectors, shielded Remark: SPQ is 1pc

Female angled connector, shielded,
screw clamp connection,
version with shielding ring

Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-F03A-S-D6-SH	163 003 521 2001
	6-8 mm	M12-F03A-S-D8-SH	163 003 521 2002
4	4-6 mm	M12-F04A-S-D6-SH	163 004 521 2001
	6-8 mm	M12-F04A-S-D8-SH	163 004 521 2002
5	4-6 mm	M12-F05A-S-D6-SH	163 005 521 2001
	6-8 mm	M12-F05A-S-D8-SH	163 005 521 2002



A-Code

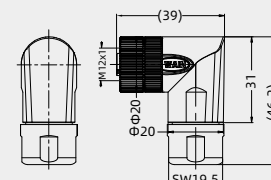
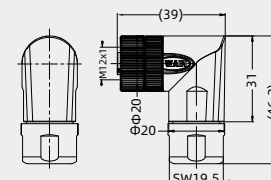


Female angled connector, shielded,
solder, version with shielding ring

Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-FST03A-S-D6-SH	1630035230500
	6-8 mm	M12-FST03A-S-D8-SH	1630035230501
4	4-6 mm	M12-FST04A-S-D6-SH	1630045232500
	6-8 mm	M12-FST04A-S-D8-SH	1630045232501
5	4-6 mm	M12-FST05A-S-D6-SH	1630055232500
	6-8 mm	M12-FST05A-S-D8-SH	1630055232501
8	4-6 mm	M12-FST08A-S-D6-SH	1630085232500
	6-8 mm	M12-FST08A-S-D8-SH	1630085232501



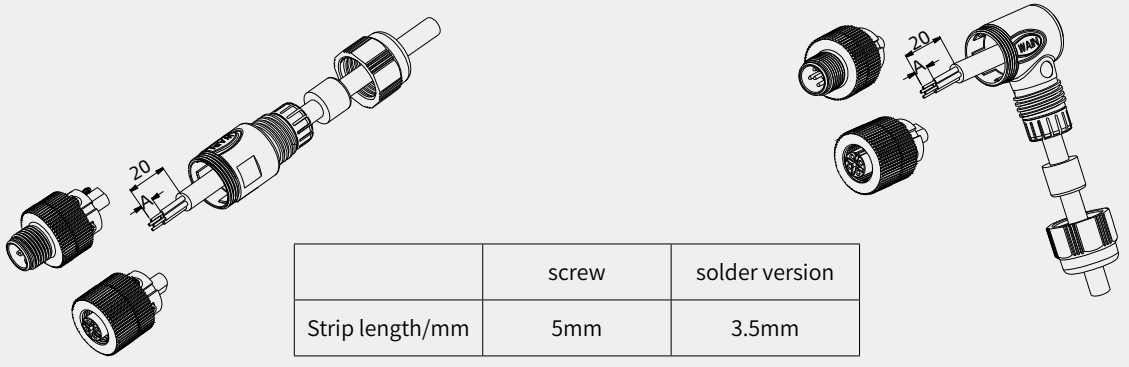
A-Code



Assembly instruction

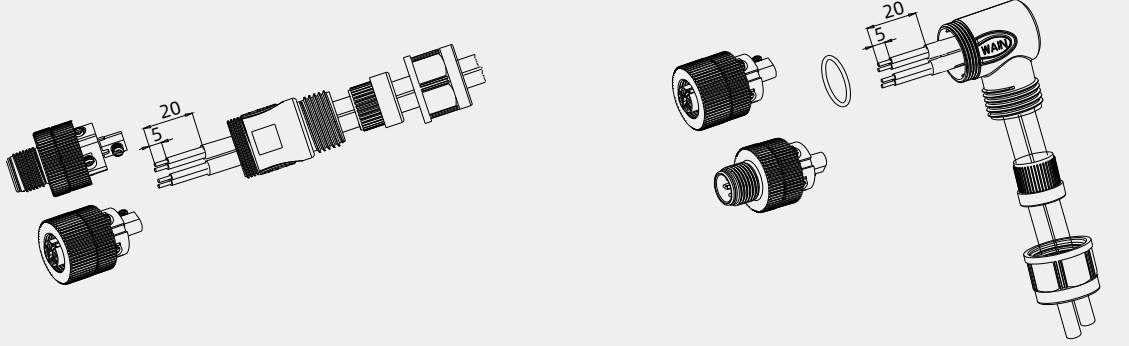
• Assembly instruction

- Strip length male/female cable connector, male/female angled connector, **not shielded**

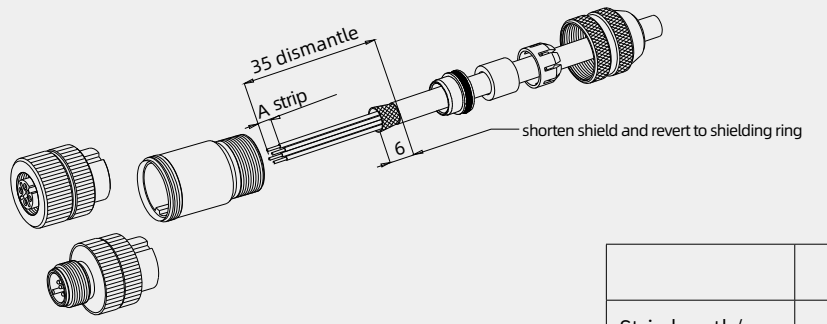


	screw	solder version
Strip length/mm	5mm	3.5mm

- Strip length male/female cable duo connector, male/female angled duo connector, **not shieldable**



- Strip length male/female cable connector, **with shielding ring**



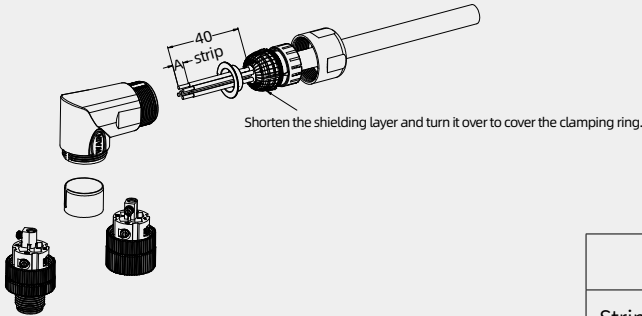
	screw	solder version
Strip length/mm	5mm	3.5mm

M12-A

Assembly instruction

• Assembly instruction

- Stripping length of male/female angled cable connector, [with shielding ring](#)

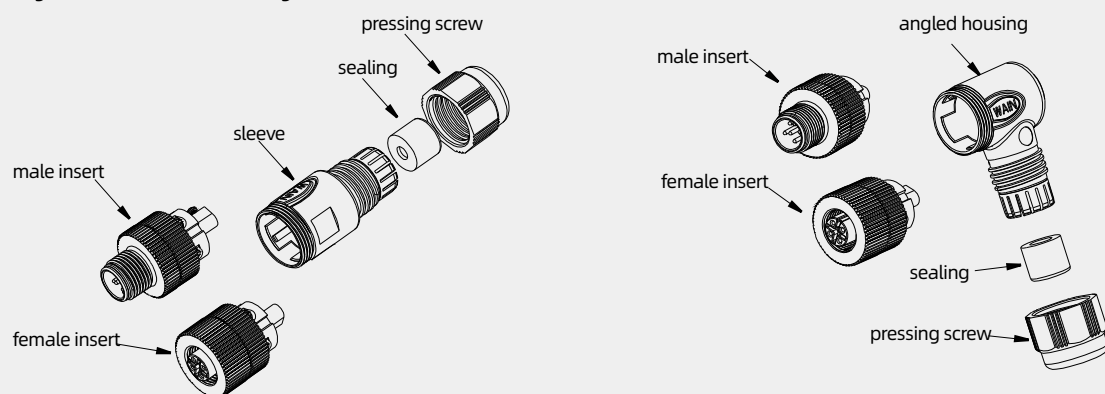


	screw	solder version
Strip length/mm	5mm	3.5mm

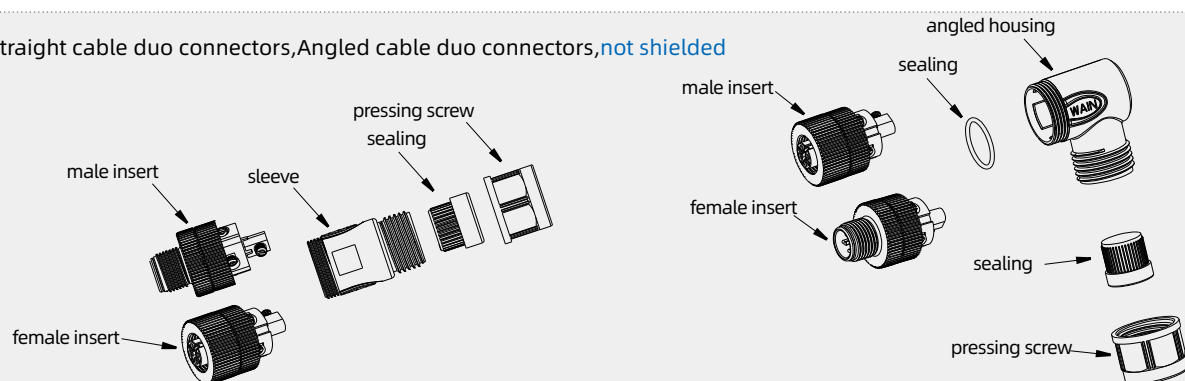
Assembly instruction

• Component part drawing

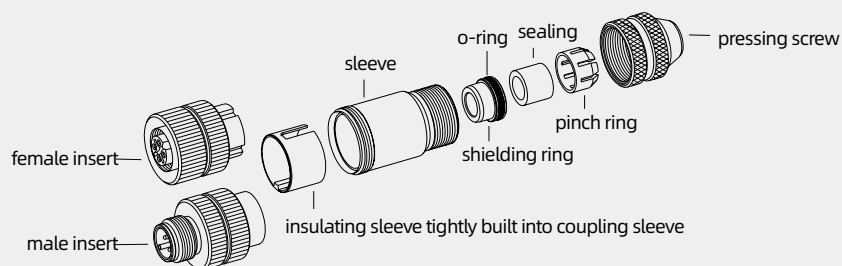
- Straight cable connectors, Angled cable connectors, **not shielded**



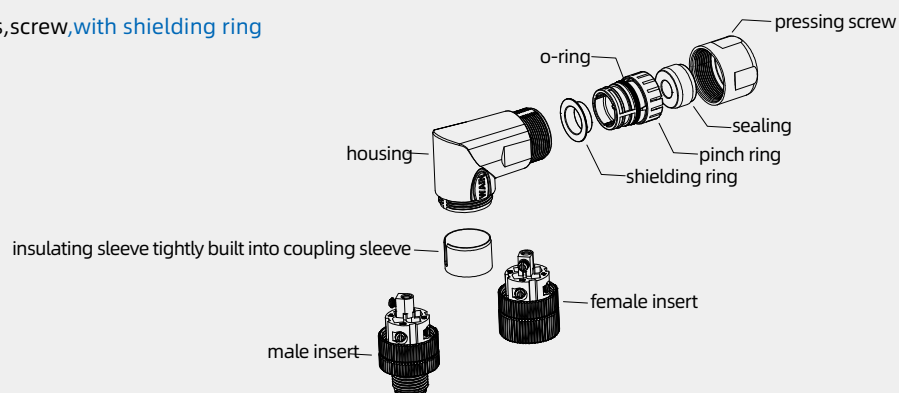
- Straight cable duo connectors, Angled cable duo connectors, **not shielded**



- Straight cable connectors, **with shielding ring**



- Angled cable connectors, screw, **with shielding ring**

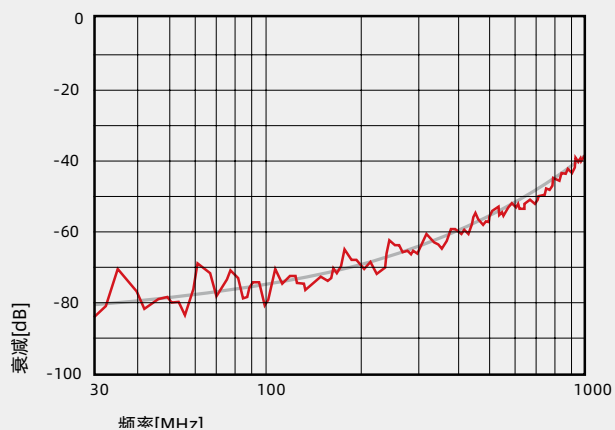


M12-A

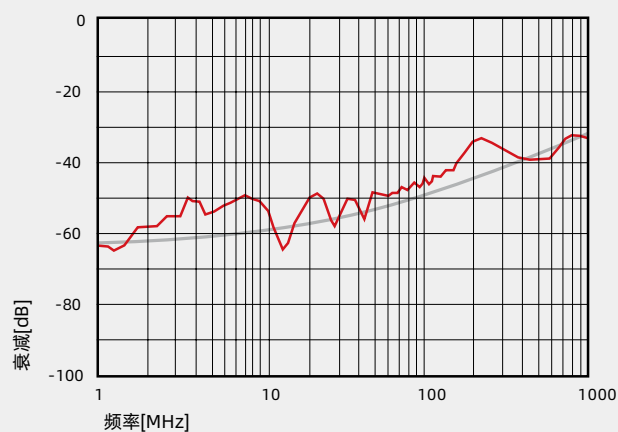
Rating

- Rating

Attenuation curve according to DIN 47250-6 for straight cable connectors, with shielding ring

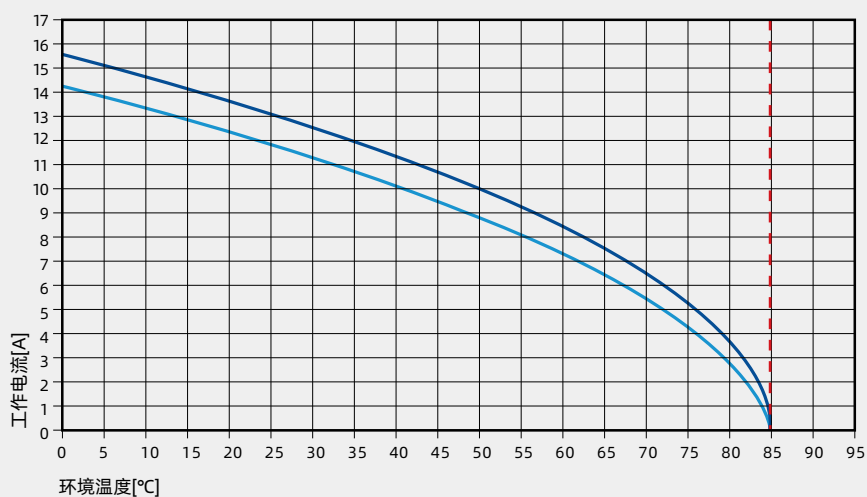


Attenuation curve according to DIN 47250-6 for straight cable connectors, with iris type spring



Derating curve according to DIN EN 60512 for POWER cable connectors

- A-coding 4 pole version
- A-coding 5 pole version



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	60V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² AWG24)	0.25mm ² (AWG24)	0.14mm ² (AWG26)
Cable outlet	-	-	-	-	-
Degree of protection	IP67 shielded	IP67 shielded	IP67 shielded	IP67 shielded	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	TPU	TPU	TPU	TPU	TPU

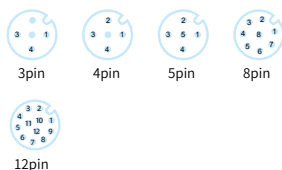
Straight cable connectors, cable 备注：标准包装量 1pc

Male cable connector moulded, screw

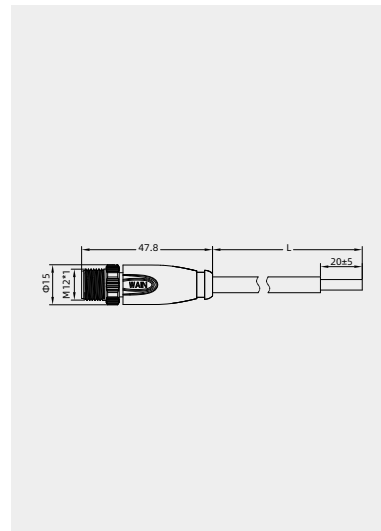
Recommended use



A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-M03A-T-1.5-PVC	163 003 401 4001
		5.0 m	M12-M03A-T-5.0-PVC	163 003 401 4002
	3x0.34PUR	1.5 m	M12-M03A-T-1.5-PUR	163 003 401 4041
		5.0 m	M12-M03A-T-5.0-PUR	163 003 401 4042
4	4x0.34PVC	1.5 m	M12-M04A-T-1.5-PVC	163 004 401 4001
		5.0 m	M12-M04A-T-5.0-PVC	163 004 401 4002
	4x0.34PUR	1.5 m	M12-M04A-T-1.5-PUR	163 004 401 4041
		5.0 m	M12-M04A-T-5.0-PUR	163 004 401 4042
5	5x0.25PVC	1.5 m	M12-M05A-T-1.5-PVC	163 005 401 4001
		5.0 m	M12-M05A-T-5.0-PVC	163 005 401 4002
	5x0.25PUR	1.5 m	M12-M05A-T-1.5-PUR	163 005 401 4041
		5.0 m	M12-M05A-T-5.0-PUR	163 005 401 4042
8	8x0.25PUR	1.5 m	M12-M08A-T-1.5-PUR	163 008 401 4041
		5.0 m	M12-M08A-T-5.0-PUR	163 008 401 4042
12	12x0.25PVC	1.5 m	M12-M12A-T-1.5-PVC	163 012 401 4001
		5.0 m	M12-M12A-T-5.0-PVC	163 012 401 4003
	12x0.25PUR	1.5 m	M12-M12A-T-1.5-PUR	163 012 401 4004
		5.0 m	M12-M12A-T-5.0-PUR	163 012 401 4005

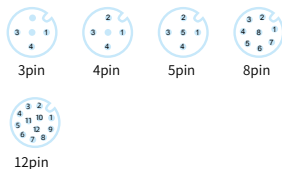


Male cable connector moulded, screw, shielded

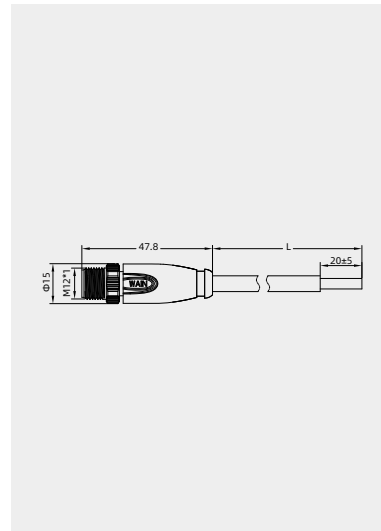
Recommended use



A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-M03A-T-1.5-PVC-SH	163 003 401 4021
		5.0 m	M12-M03A-T-5.0-PVC-SH	163 003 401 4022
	3x0.34PUR	1.5 m	M12-M03A-T-1.5-PUR-SH	163 003 401 4061
		5.0 m	M12-M03A-T-5.0-PUR-SH	163 003 401 4062
4	4x0.34PVC	1.5 m	M12-M04A-T-1.5-PVC-SH	163 004 401 4021
		5.0 m	M12-M04A-T-5.0-PVC-SH	163 004 401 4022
	4x0.34PUR	1.5 m	M12-M04A-T-1.5-PUR-SH	163 004 401 4061
		5.0 m	M12-M04A-T-5.0-PUR-SH	163 004 401 4062
5	5x0.25PVC	1.5 m	M12-M05A-T-1.5-PVC-SH	163 005 401 4021
		5.0 m	M12-M05A-T-5.0-PVC-SH	163 005 401 4022
	5x0.25PUR	1.5 m	M12-M05A-T-1.5-PUR-SH	163 005 401 4061
		5.0 m	M12-M05A-T-5.0-PUR-SH	163 005 401 4062
8	8x0.25PUR	1.5 m	M12-M08A-T-1.5-PUR-SH	163 008 401 4061
		5.0 m	M12-M08A-T-5.0-PUR-SH	163 008 401 4062
12	12x0.25PVC	1.5 m	M12-M12A-T-1.5-PVC-SH	163 012 401 2001
		5.0 m	M12-M12A-T-5.0-PVC-SH	163 012 401 2002
	12x0.25PUR	1.5 m	M12-M12A-T-1.5-PUR-SH	163 012 401 2003
		5.0 m	M12-M12A-T-5.0-PUR-SH	163 012 401 2004



•Further cable length upon request.

M12-A Circular Connector

125/250V 4A

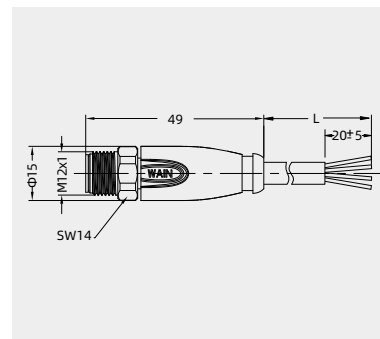
Technical characteristics

	3-pole	4-pole	5-pole
Rated current (40°C)	4A	4A	4A
Rated voltage	250V	250V	125V
Rated impulse voltage	2500V	2500V	1500V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	TPU	TPU	TPU

Straight cable connectors, cable Remark: SPQ is 1pcMale cable connector moulded,
Stainless steel ring nut, screw

Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12S-M03A-T-1.5-PUR	163 003 401 4241
		5.0 m	M12S-M03A-T-5.0-PUR	163 003 401 4242
4	4x0.34PUR	1.5 m	M12S-M04A-T-1.5-PUR	163 004 401 4241
		5.0 m	M12S-M04A-T-5.0-PUR	163 004 401 4242
5	5x0.25PUR	1.5 m	M12S-M05A-T-1.5-PUR	163 005 401 4241
		5.0 m	M12S-M05A-T-5.0-PUR	163 005 401 4242

A-Code



•Further cable length upon request.

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	60V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)	0.25mm ² (AWG24)	0.14mm ² (AWG26)
Cable outlet	-	-	-	-	-
Degree of protection	IP67 shielded	IP67 shielded	IP67 shielded	IP67 shielded	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	TPU	TPU	TPU	TPU	TPU

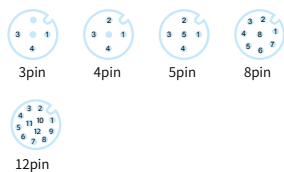
Angled cable connectors,cable Remark: SPQ is 1pc

Male cable connector moulded, screw

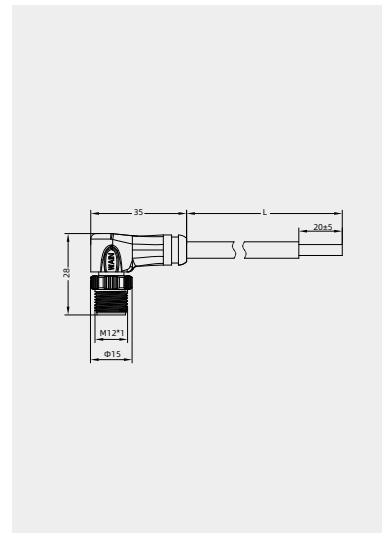
Recommended use



A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-M03A-S-1.5-PVC	163 003 501 4001
		5.0 m	M12-M03A-S-5.0-PVC	163 003 501 4002
	3x0.34PUR	1.5 m	M12-M03A-S-1.5-PUR	163 003 501 4041
		5.0 m	M12-M03A-S-5.0-PUR	163 003 501 4042
4	4x0.34PVC	1.5 m	M12-M04A-S-1.5-PVC	163 004 501 4001
		5.0 m	M12-M04A-S-5.0-PVC	163 004 501 4015
	4x0.34PUR	1.5 m	M12-M04A-S-1.5-PUR	163 004 501 4041
		5.0 m	M12-M04A-S-5.0-PUR	163 004 501 4042
5	5x0.25PVC	1.5 m	M12-M05A-S-1.5-PVC	163 005 501 4001
		5.0 m	M12-M05A-S-5.0-PVC	163 005 501 4002
	5x0.25PUR	1.5 m	M12-M05A-S-1.5-PUR	163 005 501 4041
		5.0 m	M12-M05A-S-5.0-PUR	163 005 501 4042
8	8x0.25PUR	1.5 m	M12-M08A-S-1.5-PUR	163 008 501 4041
		5.0 m	M12-M08A-S-5.0-PUR	163 008 501 4042
12	12x0.25PVC	1.5 m	M12-M12A-S-1.5-PVC	163 012 501 4001
		5.0 m	M12-M12A-S-5.0-PVC	163 012 501 4002
	12x0.25PUR	1.5 m	M12-M12A-S-1.5-PUR	163 012 501 4003
		5.0 m	M12-M12A-S-5.0-PUR	163 012 501 4004

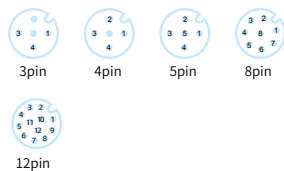


Male cable connector moulded, screw, shielded

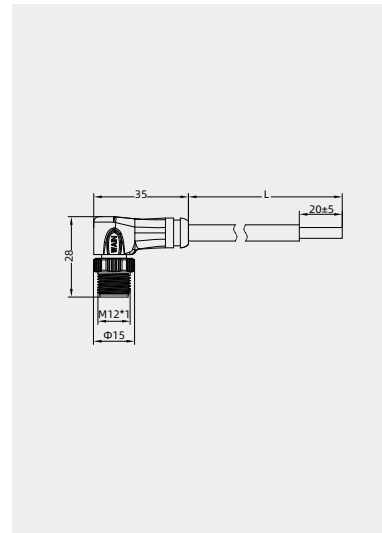
Recommended use



A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-M03A-S-1.5-PVC-SH	163 003 501 4021
		5.0 m	M12-M03A-S-5.0-PVC-SH	163 003 501 4022
	3x0.34PUR	1.5 m	M12-M03A-S-1.5-PUR-SH	163 003 501 4061
		5.0 m	M12-M03A-S-5.0-PUR-SH	163 003 501 4062
4	4x0.34PVC	1.5 m	M12-M04A-S-1.5-PVC-SH	163 004 501 4021
		5.0 m	M12-M04A-S-5.0-PVC-SH	163 004 501 4022
	4x0.34PUR	1.5 m	M12-M04A-S-1.5-PUR-SH	163 004 501 4061
		5.0 m	M12-M04A-S-5.0-PUR-SH	163 004 501 4062
5	5x0.25PVC	1.5 m	M12-M05A-S-1.5-PVC-SH	163 005 501 4021
		5.0 m	M12-M05A-S-5.0-PVC-SH	163 005 501 4022
	5x0.25PUR	1.5 m	M12-M05A-S-1.5-PUR-SH	163 005 501 4061
		5.0 m	M12-M05A-S-5.0-PUR-SH	163 005 501 4062
8	8x0.25PUR	1.5 m	M12-M08A-S-1.5-PUR-SH	163 008 514 2001
		5.0 m	M12-M08A-S-5.0-PUR-SH	163 008 514 2002
12	12x0.25PVC	1.5 m	M12-M12A-S-1.5-PVC-SH	163 012 501 2001
		5.0 m	M12-M12A-S-5.0-PVC-SH	163 012 501 2002
	12x0.25PUR	1.5 m	M12-M12A-S-1.5-PUR-SH	163 012 501 2003
		5.0 m	M12-M12A-S-5.0-PUR-SH	163 012 501 2004



•Further cable length upon request.

M12-A Circular Connector

125/250V 4A

Technical characteristics

	3-pole	4-pole	5-pole
Rated current (40°C)	4A	4A	4A
Rated voltage	250V	250V	125V
Rated impulse voltage	2500V	2500V	1500V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	TPU	TPU	TPU

Angled cable connectors, cable Remark: SPQ is 1pc

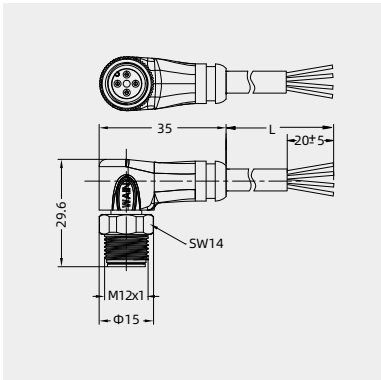
Male angled connector moulded,
Stainless steel ring nut,screw



A- Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12S-M03A-S-1.5-PUR	163 003 501 4241
		5.0 m	M12S-M03A-S-5.0-PUR	163 003 501 4242
4	4x0.34PUR	1.5 m	M12S-M04A-S-1.5-PUR	163 004 501 4241
		5.0 m	M12S-M04A-S-5.0-PUR	163 004 501 4242
5	5x0.25PUR	1.5 m	M12S-M05A-S-1.5-PUR	163 005 501 4241
		5.0 m	M12S-M05A-S-5.0-PUR	163 005 501 4242



•Further cable length upon request.

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	60V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² AWG24)	0.25mm ² (AWG24)	0.14mm ² (AWG26)
Cable outlet	-	-	-	-	-
Degree of protection	IP67 shielded	IP67 shielded	IP67 shielded	IP67 shielded	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	TPU	TPU	TPU	TPU	TPU

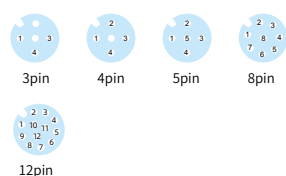
Straight cable connectors, cable Remark: SPQ is 1pc

Femalae connector moulded,screw

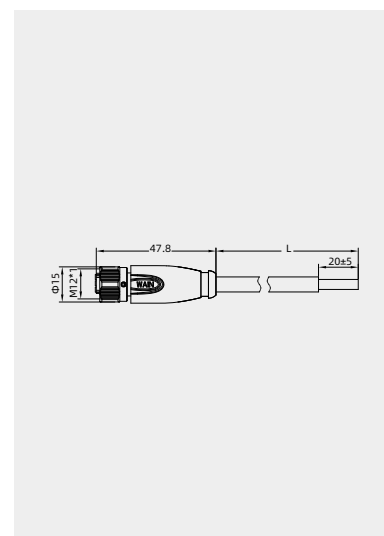
Recommended use



A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-F03A-T-1.5-PVC	163 003 402 4001
		5.0 m	M12-F03A-T-5.0-PVC	163 003 402 4002
	3x0.34PUR	1.5 m	M12-F03A-T-1.5-PUR	163 003 402 4041
		5.0 m	M12-F03A-T-5.0-PUR	163 003 402 4042
4	4x0.34PVC	1.5 m	M12-F04A-T-1.5-PVC	163 004 402 4001
		5.0 m	M12-F04A-T-5.0-PVC	163 004 402 4002
	4x0.34PUR	1.5 m	M12-F04A-T-1.5-PUR	163 004 402 4041
		5.0 m	M12-F04A-T-5.0-PUR	163 004 402 4042
5	5x0.25PVC	1.5 m	M12-F05A-T-1.5-PVC	163 005 402 4001
		5.0 m	M12-F05A-T-5.0-PVC	163 005 402 4002
	5x0.25PUR	1.5 m	M12-F05A-T-1.5-PUR	163 005 402 4041
		5.0 m	M12-F05A-T-5.0-PUR	163 005 402 4042
8	8x0.25PUR	1.5 m	M12-F08A-T-1.5-PUR	163 008 402 4041
		5.0 m	M12-F08A-T-5.0-PUR	163 008 402 4042
12	12x0.25PVC	1.5 m	M12-F12A-T-1.5-PVC	163 012 402 4001
		5.0 m	M12-F12A-T-5.0-PVC	163 012 402 4003
	12x0.25PUR	1.5 m	M12-F12A-T-1.5-PUR	163 012 402 4004
		5.0 m	M12-F12A-T-5.0-PUR	163 012 402 4005



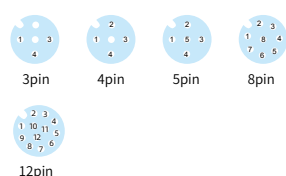
M12-A

Female connector moulded,screw shielded

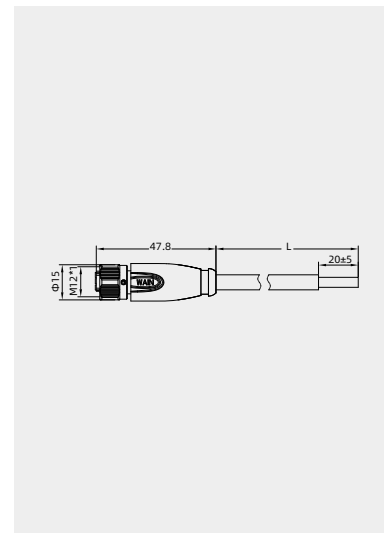
Recommended use



A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-F03A-T-1.5-PVC-SH	163 003 402 4021
		5.0 m	M12-F03A-T-5.0-PVC-SH	163 003 402 4022
	3x0.34PUR	1.5 m	M12-F03A-T-1.5-PUR-SH	163 003 402 4061
		5.0 m	M12-F03A-T-5.0-PUR-SH	163 003 402 4062
4	4x0.34PVC	1.5 m	M12-F04A-T-1.5-PVC-SH	163 004 402 4021
		5.0 m	M12-F04A-T-5.0-PVC-SH	163 004 402 4022
	4x0.34PUR	1.5 m	M12-F04A-T-1.5-PUR-SH	163 004 402 4061
		5.0 m	M12-F04A-T-5.0-PUR-SH	163 004 402 4062
5	5x0.25PVC	1.5 m	M12-F05A-T-1.5-PVC-SH	163 005 402 4021
		5.0 m	M12-F05A-T-5.0-PVC-SH	163 005 402 4022
	5x0.25PUR	1.5 m	M12-F05A-T-1.5-PUR-SH	163 005 402 4061
		5.0 m	M12-F05A-T-5.0-PUR-SH	163 005 402 4062
8	8x0.25PUR	1.5 m	M12-F08A-T-1.5-PUR-SH	163 008 402 4061
		5.0 m	M12-F08A-T-5.0-PUR-SH	163 008 402 4062
12	12x0.25PVC	1.5 m	M12-F12A-T-1.5-PVC-SH	163 012 402 2001
		5.0 m	M12-F12A-T-5.0-PVC-SH	163 012 402 2002
	12x0.25PUR	1.5 m	M12-F12A-T-1.5-PUR-SH	163 012 402 2003
		5.0 m	M12-F12A-T-5.0-PUR-SH	163 012 402 2004



•Further cable length upon request.

M12-A Circular Connector

125/250V 4A

Technical characteristics

	3-pole	4-pole	5-pole
Rated current (40°C)	4A	4A	4A
Rated voltage	250V	250V	125V
Rated impulse voltage	2500V	2500V	1500V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	TPU	TPU	TPU

Straight cable connectors, cable Remark: SPQ is 1pc

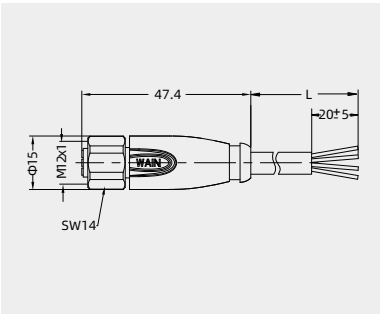
Female cable connector moulded,
Stainless steel ring nut,screw



A- Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12S-F03A-T-1.5-PUR	163 003 402 4241
		5.0 m	M12S-F03A-T-5.0-PUR	163 003 402 4242
4	4x0.34PUR	1.5 m	M12S-F04A-T-1.5-PUR	163 004 402 4241
		5.0 m	M12S-F04A-T-5.0-PUR	163 004 402 4242
5	5x0.25PUR	1.5 m	M12S-F05A-T-1.5-PUR	163 005 402 4241
		5.0 m	M12S-F05A-T-5.0-PUR	163 005 402 4242



•Further cable length upon request.

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

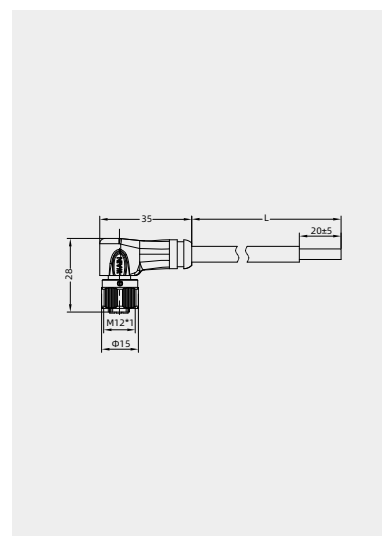
	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	60V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)	0.25mm ² (AWG24)	0.14mm ² (AWG26)
Cable outlet	-	-	-	-	-
Degree of protection	IP67 shielded	IP67 shielded	IP67 shielded	IP67 shielded	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	TPU	TPU	TPU	TPU	TPU

Angled cable connectors, cable Remark: SPQ is 1pcFemale angled connector moulded,
screwRecommended use

A-Code



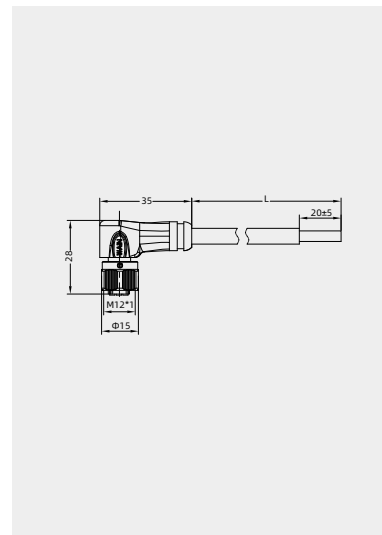
Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-F03A-S-1.5-PVC	163 003 502 4001
		5.0 m	M12-F03A-S-5.0-PVC	163 003 502 4002
	3x0.34PUR	1.5 m	M12-F03A-S-1.5-PUR	163 003 502 4041
		5.0 m	M12-F03A-S-5.0-PUR	163 003 502 4042
4	4x0.34PVC	1.5 m	M12-F04A-S-1.5-PVC	163 004 502 4001
		5.0 m	M12-F04A-S-5.0-PVC	163 004 502 4002
	4x0.34PUR	1.5 m	M12-F04A-S-1.5-PUR	163 004 502 4041
		5.0 m	M12-F04A-S-5.0-PUR	163 004 502 4042
5	5x0.25PVC	1.5 m	M12-F05A-S-1.5-PVC	163 005 502 4001
		5.0 m	M12-F05A-S-5.0-PVC	163 005 502 4002
	5x0.25PUR	1.5 m	M12-F05A-S-1.5-PUR	163 005 502 4041
		5.0 m	M12-F05A-S-5.0-PUR	163 005 502 4042
8	8x0.25PUR	1.5 m	M12-F08A-S-1.5-PUR	163 008 502 4041
		5.0 m	M12-F08A-S-5.0-PUR	163 008 502 4042
12	12x0.25PVC	1.5 m	M12-F12A-S-1.5-PVC	163 012 502 4001
		5.0 m	M12-F12A-S-5.0-PVC	163 012 502 4002
	12x0.25PUR	1.5 m	M12-F12A-S-1.5-PUR	163 012 502 4003
		5.0 m	M12-F12A-S-5.0-PUR	163 012 502 4004

Female angled connector moulded
screw, shieldedRecommended use

A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-F03A-S-1.5-PVC-SH	163 003 502 4021
		5.0 m	M12-F03A-S-5.0-PVC-SH	163 003 502 4022
	3x0.34PUR	1.5 m	M12-F03A-S-1.5-PUR-SH	163 003 502 4061
		5.0 m	M12-F03A-S-5.0-PUR-SH	163 003 502 4062
4	4x0.34PVC	1.5 m	M12-F04A-S-1.5-PVC-SH	163 004 502 4021
		5.0 m	M12-F04A-S-5.0-PVC-SH	163 004 502 4022
	4x0.34PUR	1.5 m	M12-F04A-S-1.5-PUR-SH	163 004 502 4061
		5.0 m	M12-F04A-S-5.0-PUR-SH	163 004 502 4062
5	5x0.25PVC	1.5 m	M12-F05A-S-1.5-PVC-SH	163 005 502 4021
		5.0 m	M12-F05A-S-5.0-PVC-SH	163 005 502 4022
	5x0.25PUR	1.5 m	M12-F05A-S-1.5-PUR-SH	163 005 502 4061
		5.0 m	M12-F05A-S-5.0-PUR-SH	163 005 502 4062
8	8x0.25PUR	1.5 m	M12-F08A-S-1.5-PUR-SH	163 008 524 2001
		5.0 m	M12-F08A-S-5.0-PUR-SH	163 008 524 2002
12	12x0.25PVC	1.5 m	M12-F12A-S-1.5-PVC-SH	163 012 502 2001
		5.0 m	M12-F12A-S-5.0-PVC-SH	163 012 502 2002
	12x0.25PUR	1.5 m	M12-F12A-S-1.5-PUR-SH	163 012 502 2003
		5.0 m	M12-F12A-S-5.0-PUR-SH	163 012 502 2004



•Further cable length upon request.

M12-A Circular Connector

125/250V 4A

Technical characteristics

	3-pole	4-pole	5-pole
Rated current (40°C)	4A	4A	4A
Rated voltage	250V	250V	125V
Rated impulse voltage	2500V	2500V	1500V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	TPU	TPU	TPU

Angled cable connectors, cable Remark: SPQ is 1pc

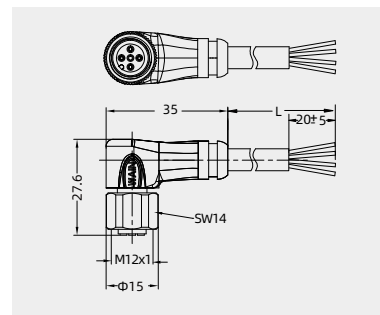
Female angled connector moulded,
Stainless steel ring nut, screw



A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12S-F03A-S-1.5-PUR	163 003 502 4241
		5.0 m	M12S-F03A-S-5.0-PUR	163 003 502 4242
4	4x0.34PUR	1.5 m	M12S-F04A-S-1.5-PUR	163 004 502 4241
		5.0 m	M12S-F04A-S-5.0-PUR	163 004 502 4242
5	5x0.25PUR	1.5 m	M12S-F05A-S-1.5-PUR	163 005 502 4241
		5.0 m	M12S-F05A-S-5.0-PUR	163 005 502 4242



•Further cable length upon request.

M12-A Circular Connector

36V 4A

Technical characteristics

	3-pole	4-pole
Rated current (40°C)	4A	4A
Rated voltage	36V	36V
Rated impulse voltage	500V	500V
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)
Cable outlet	-	-
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PA	PA
Material of housing	TPU	TPU

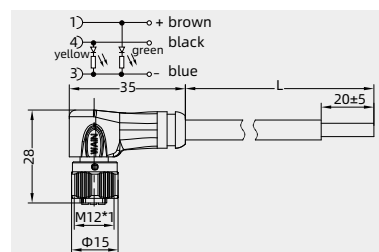
Angled cable connectors ,cable Remark: SPQ is 1pcFemale angled connector moulded,
with LED PNP normally open

A-Code



3pin

Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-F03A-S-1.5-PVC-LED	163 003 502 4003
		5.0 m	M12-F03A-S-5.0-PVC-LED	163 003 502 4004
3	3x0.34PUR	1.5 m	M12-F03A-S-1.5-PUR-LED	163 003 502 4043
		5.0 m	M12-F03A-S-5.0-PUR-LED	163 003 502 4044

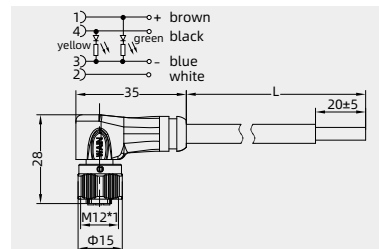
Female angled connector moulded,
with LED PNP normally closed/
open,antivalent

A-Code



3pin

Contacts	Cable	Cable length	Designation	Order No.
4	4x0.34PVC	1.5 m	M12-F04A-S-1.5-PVC-LED1	163 004 502 4005
		5.0 m	M12-F04A-S-5.0-PVC-LED1	163 004 502 4006
4	4x0.34PUR	1.5 m	M12-F04A-S-1.5-PUR-LED1	163 004 502 4045
		5.0 m	M12-F04A-S-5.0-PUR-LED1	163 004 502 4046

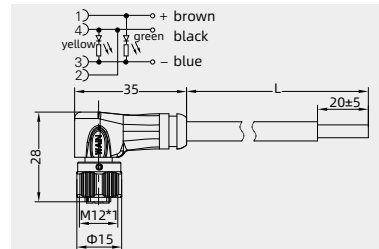
Female angled connector moulded,
with LED PNP normally closed/
open

A-Code



4pin

Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12-F03A-S-1.5-PUR-LED2	163 003 502 4047
		5.0 m	M12-F03A-S-5.0-PUR-LED2	163 003 502 4048

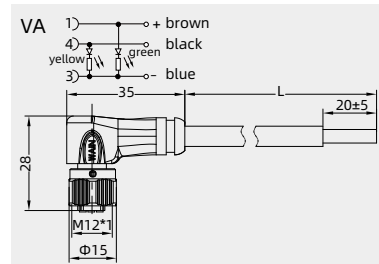
Female angled connector moulded,
with LED PNP normally open,
stainless steel ring nut

A-Code



3pin

Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12S-F03A-S-1.5-PUR-LED	163 003 502 4243
		5.0 m	M12S-F03A-S-5.0-PUR-LED	163 003 502 4244



•Further cable length upon request.

M12-A Circular Connector

60/125/250V 4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	60V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)	0.25mm ² (AWG24)	0.25mm ² (AWG24)
Cable outlet	-	-	-	-	-
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	TPU	TPU	TPU	TPU	TPU

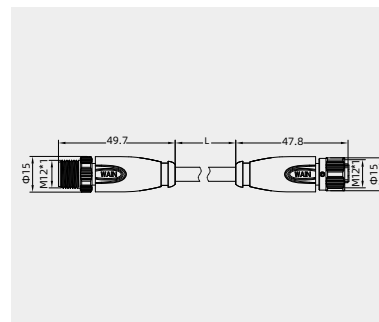
Cable connectors-wire jumper Remark: SPQ is 1pc

Male cable connector

-female cable connector

Recommended use

Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12-M03A-T/F03A-T-1.5-PUR	163 003 400 4041
		5.0 m	M12-M03A-T/F03A-T-5.0-PUR	163 003 400 4042
4	4x0.34PUR	1.5 m	M12-M04A-T/F04A-T-1.5-PUR	163 004 400 4041
		5.0 m	M12-M04A-T/F04A-T-5.0-PUR	163 004 400 4042
5	5x0.25PUR	1.5 m	M12-M05A-T/F05A-T-1.5-PUR	163 005 400 4041
		5.0 m	M12-M05A-T/F05A-T-5.0-PUR	163 005 400 4042
8	8x0.25PUR	1.5 m	M12-M08A-T/F08A-T-1.5-PUR	163 008 400 4007
		5.0 m	M12-M08A-T/F08A-T-5.0-PUR	163 008 400 4011
12	12x0.25PUR	1.5 m	M12-M12A-T/F12A-T-1.5-PUR	163 012 400 4001
		5.0 m	M12-M12A-T/F12A-T-5.0-PUR	163 012 400 4002

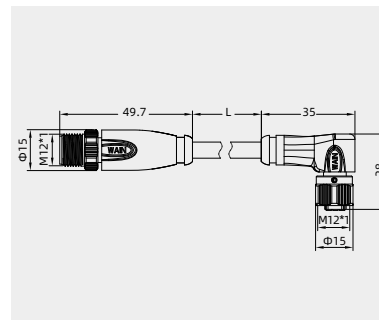


Male cable connector

-female angled cable connector

Recommended use

Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12-M03A-T/F03A-S-1.5-PUR	163 003 500 4041
		5.0 m	M12-M03A-T/F03A-S-5.0-PUR	163 003 500 4042
4	4x0.34PUR	1.5 m	M12-M04A-T/F04A-S-1.5-PUR	163 004 500 4041
		5.0 m	M12-M04A-T/F04A-S-5.0-PUR	163 004 500 4042
5	5x0.25PUR	1.5 m	M12-M05A-T/F05A-S-1.5-PUR	163 005 500 4041
		5.0 m	M12-M05A-T/F05A-S-5.0-PUR	163 005 500 4042
8	8x0.25PUR	1.5 m	M12-M08A-T/F08A-S-1.5-PUR	163 008 500 4041
		5.0 m	M12-M08A-T/F08A-S-5.0-PUR	163 008 400 4008
12	12x0.25PUR	1.5 m	M12-M12A-T/F12A-S-1.5-PUR	163 012 400 4003
		5.0 m	M12-M12A-T/F12A-S-5.0-PUR	163 012 500 4001



•Other cable lengths can be customized, double-ended connectors, male/female, straight/angled, shielded/unshielded, freely combinable.

M12-A Circular Connector

60/125/250V 4A

Technical characteristics

	3-pole	4-pole	5-pole
Rated current (40°C)	4A	4A	4A
Rated voltage	250V	250V	125V
Rated impulse voltage	2500V	2500V	1500V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	TPU	TPU	TPU

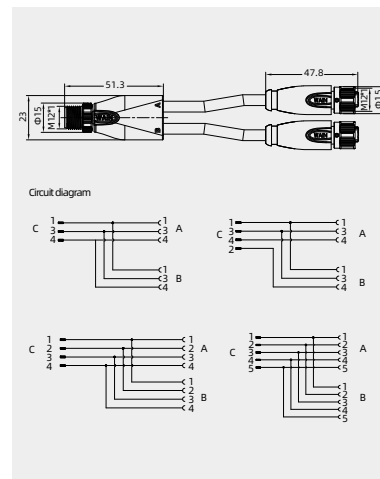
Cable connectors-Y straight head brancher Remark: SPQ is 1pc

Male cable connector

-female cable connector



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12Y-M03A/2M12-F03A-T-1.5-PVC	171 302 003 0308
		5.0 m	M12Y-M03A/2M12-F03A-T-5.0-PVC	171 302 003 0309
	3x0.34PUR	1.5 m	M12Y-M03A/2M12-F03A-T-1.5-PUR	171 302 003 0306
		5.0 m	M12Y-M03A/2M12-F03A-T-5.0-PUR	171 302 003 0307
	3x0.34PVC	1.5 m	M12Y-M04A/2M12-F03A-T-1.5-PVC	171 302 003 0302
		5.0 m	M12Y-M04A/2M12-F03A-T-5.0-PVC	171 302 003 0303
4	3x0.34PUR	1.5 m	M12Y-M04A/2M12-F03A-T-1.5-PUR	171 302 003 0304
		5.0 m	M12Y-M04A/2M12-F03A-T-5.0-PUR	171 302 003 0305
	4x0.34PVC	1.5 m	M12Y-M04A/2M12-F04A-T-1.5-PVC	171 302 004 0307
		5.0 m	M12Y-M04A/2M12-F04A-T-5.0-PVC	171 302 004 0308
	4x0.34PUR	1.5 m	M12Y-M04A/2M12-F04A-T-1.5-PUR	171 302 004 0305
		5.0 m	M12Y-M04A/2M12-F04A-T-5.0-PUR	171 302 004 0306
5	5x0.25PVC	1.5 m	M12Y-M05A/2M12-F05A-T-1.5-PVC	171 302 005 0302
		5.0 m	M12Y-M05A/2M12-F05A-T-5.0-PVC	171 302 005 0303
	5x0.25PUR	1.5 m	M12Y-M05A/2M12-F05A-T-1.5-PUR	171 302 005 0304
		5.0 m	M12Y-M05A/2M12-F05A-T-5.0-PUR	171 302 005 0305

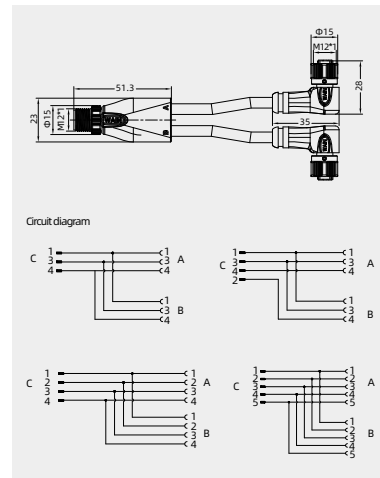


Male cable connector

-female angled cable connector



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12Y-M03A/2M12-F03A-S-1.5-PVC	171 302 003 0318
		5.0 m	M12Y-M03A/2M12-F03A-S-5.0-PVC	171 302 003 0319
	3x0.34PUR	1.5 m	M12Y-M03A/2M12-F03A-S-1.5-PUR	171 302 003 0321
		5.0 m	M12Y-M03A/2M12-F03A-S-5.0-PUR	171 302 003 0322
	3x0.34PVC	1.5 m	M12Y-M04A/2M12-F03A-S-1.5-PVC	171 302 003 0323
		5.0 m	M12Y-M04A/2M12-F03A-S-5.0-PVC	171 302 003 0320
4	3x0.34PUR	1.5 m	M12Y-M04A/2M12-F03A-S-1.5-PUR	171 302 003 0324
		5.0 m	M12Y-M04A/2M12-F03A-S-5.0-PUR	171 302 003 0325
	4x0.34PVC	1.5 m	M12Y-M04A/2M12-F04A-S-1.5-PVC	171 302 004 0327
		5.0 m	M12Y-M04A/2M12-F04A-S-5.0-PVC	171 302 004 0326
	4x0.34PUR	1.5 m	M12Y-M04A/2M12-F04A-S-1.5-PUR	171 302 004 0328
		5.0 m	M12Y-M04A/2M12-F04A-S-5.0-PUR	171 302 004 0329
5	5x0.25PVC	1.5 m	M12Y-M05A/2M12-F05A-S-1.5-PVC	171 302 005 0315
		5.0 m	M12Y-M05A/2M12-F05A-S-5.0-PVC	171 302 005 0314
	5x0.25PUR	1.5 m	M12Y-M05A/2M12-F05A-S-1.5-PUR	171 302 005 0316
		5.0 m	M12Y-M05A/2M12-F05A-S-5.0-PUR	171 302 005 0317



•Other cable lengths can be customized, double-ended connectors, male/female, straight/angled, shielded/unshielded, freely combinable.

M12-A Circular Connector

60/125/250V 4A

Technical characteristics

	3-pole	4-pole	5-pole
Rated current (40°C)	4A	4A	4A
Rated voltage	250V	250V	125V
Rated impulse voltage	2500V	2500V	1500V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	TPU	TPU	TPU

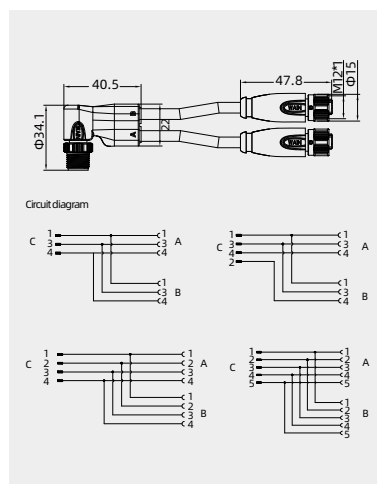
Cable connectors-Y straight head brancher Remark: SPQ is 1pc

Male angled cable connector

-female cable connector



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12Y-M03A-S/2M12-F03A-T-1.5-PVC	171 302 003 0310
		5.0 m	M12Y-M03A-S/2M12-F03A-T-5.0-PVC	171 302 003 0312
	3x0.34PUR	1.5 m	M12Y-M03A-S/2M12-F03A-T-1.5-PUR	171 302 003 0311
		5.0 m	M12Y-M03A-S/2M12-F03A-T-5.0-PUR	171 302 003 0313
	3x0.34PVC	1.5 m	M12Y-M04A-S/2M12-F03A-T-1.5-PVC	171 302 004 0309
		5.0 m	M12Y-M04A-S/2M12-F03A-T-5.0-PVC	171 302 004 0311
4	3x0.34PUR	1.5 m	M12Y-M04A-S/2M12-F03A-T-1.5-PUR	171 302 004 0310
		5.0 m	M12Y-M04A-S/2M12-F03A-T-5.0-PUR	171 302 004 0312
	4x0.34PVC	1.5 m	M12Y-M04A-S/2M12-F04A-T-1.5-PVC	171 302 004 0313
		5.0 m	M12Y-M04A-S/2M12-F04A-T-5.0-PVC	171 302 004 0315
	4x0.34PUR	1.5 m	M12Y-M04A-S/2M12-F04A-T-1.5-PUR	171 302 004 0314
		5.0 m	M12Y-M04A-S/2M12-F04A-T-5.0-PUR	171 302 004 0316
5	5x0.25PVC	1.5 m	M12Y-M05A-S/2M12-F05A-T-1.5-PVC	171 302 005 0306
		5.0 m	M12Y-M05A-S/2M12-F05A-T-5.0-PVC	171 302 005 0308
	5x0.25PUR	1.5 m	M12Y-M05A-S/2M12-F05A-T-1.5-PUR	171 302 005 0307
		5.0 m	M12Y-M05A-S/2M12-F05A-T-5.0-PUR	171 302 005 0309

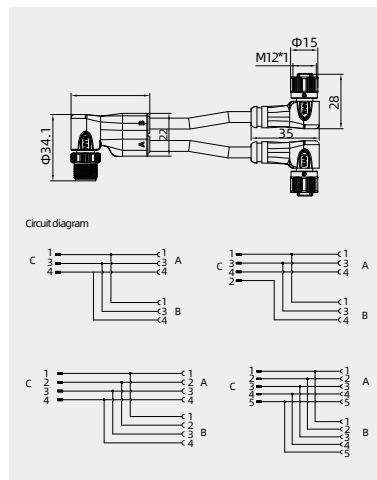


Male angled cable connector

-female angled cable connector



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12Y-M03A-S/2M12-F03A-S-1.5-PVC	171 302 003 0314
		5.0 m	M12Y-M03A-S/2M12-F03A-S-5.0-PVC	171 302 003 0316
	3x0.34PUR	1.5 m	M12Y-M03A-S/2M12-F03A-S-1.5-PUR	171 302 003 0315
		5.0 m	M12Y-M03A-S/2M12-F03A-S-5.0-PUR	171 302 003 0317
	3x0.34PVC	1.5 m	M12Y-M04A-S/2M12-F03A-S-1.5-PVC	171 302 004 0318
		5.0 m	M12Y-M04A-S/2M12-F03A-S-5.0-PVC	171 302 004 0320
4	3x0.34PUR	1.5 m	M12Y-M04A-S/2M12-F03A-S-1.5-PUR	171 302 004 0319
		5.0 m	M12Y-M04A-S/2M12-F03A-S-5.0-PUR	171 302 004 0321
	4x0.34PVC	1.5 m	M12Y-M04A-S/2M12-F04A-S-1.5-PVC	171 302 004 0322
		5.0 m	M12Y-M04A-S/2M12-F04A-S-5.0-PVC	171 302 004 0324
	4x0.34PUR	1.5 m	M12Y-M04A-S/2M12-F04A-S-1.5-PUR	171 302 004 0323
		5.0 m	M12Y-M04A-S/2M12-F04A-S-5.0-PUR	171 302 004 0325
5	5x0.25PVC	1.5 m	M12Y-M05A-S/2M12-F05A-S-1.5-PVC	171 302 005 0310
		5.0 m	M12Y-M05A-S/2M12-F05A-S-5.0-PVC	171 302 005 0312
	5x0.25PUR	1.5 m	M12Y-M05A-S/2M12-F05A-S-1.5-PUR	171 302 005 0311
		5.0 m	M12Y-M05A-S/2M12-F05A-S-5.0-PUR	171 302 005 0313



•Other cable lengths can be customized, double-ended connectors, male/female, straight/angled, shielded/unshielded, freely combinable.

CableTechnical characteristics

Standard cable

	3-pole	4-pole	5-pole	12-pole
Wire gauge mm ^{2 1)}	3x0.34mm ²	4x0.34mm ²	5x0.25mm ²	12x0.25mm ²
Material jacket	PVC / TPU	PVC / TPU	PVC / TPU	TPU
Insulation wire	PVC	PVC	PVC	PVC
Design of wire (mm)	42x0.1	7x0.25 / 42x0.1	14x0.16 / 32x0.1	14x0.25
Cable jacket (mm)	5.2	5.6	5.6	7
Resistance of wire	58Ω/Km / 55Ω/Km	79.9Ω/Km / 55Ω/Km	79.9Ω/Km / 55Ω/Km	73Ω/Km
Temperature range (cable in move)	-5°C ...+70°C	-5°C ...+70°C	-5°C ...+70°C	-5°C ...+70°C
Temperature range (cable not in move)	-25°C ...+70°C	-25°C ...+70°C	-25°C ...+70°C	-25°C ...+70°C
Bending radius (cable in move)	- / 10xD	- / 10xD	- / 10xD	15xD
Bending radius (cable not in move)	- / 5xD	- / 5xD	- / 5xD	8xD
Approval	-	-	-	-

Shielded cable

	3-pole	4-pole	5-pole	8-pole
Wire gauge mm ^{2 1)}	3x0.34mm ²	4x0.34mm ²	5x0.25mm ²	8x0.25mm ²
Material jacket	PVC / TPU	PVC / TPU	PVC	TPU
Insulation wire	PVC	PVC	PVC	PVC
Design of wire (mm)	7x0.25	7x0.25	14x0.16	19x0.127
Cable jacket (mm)	5	5	5.3	6
Resistance of wire	53Ω/Km	53Ω/Km	75.5Ω/Km	73Ω/Km
Temperature range (cable in move)	-5°C ...+70°C	-5°C ...+70°C	-5°C ...+70°C	-5°C ...+70°C
Temperature range (cable not in move)	-25°C ...+70°C	-25°C ...+70°C	-25°C ...+70°C	-25°C ...+70°C
Bending radius (cable in move)	10xD	10xD	20xD	20xD
Bending radius (cable not in move)	5xD	5xD	10xD	10xD
Approval	-	-	-	-
Cover screen grid	80% / 90%	80% / 90%	90%	85%

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	2A	1.5A
Rated voltage	250V	125V	60V	60V
Rated impulse voltage	2500V	1500V	800V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	single-strand wires	single-strand wires	single-strand wires	single-strand wires
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.34mm ² (max.AWG22)	max.0.14mm ² (max.AWG26)
Cable outlet	-	-	-	-
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated

Socket

Remark: SPQ is 1pc

Male panel mount connector

with single wires, 0.25mm²

length 0.2m

Recommended use

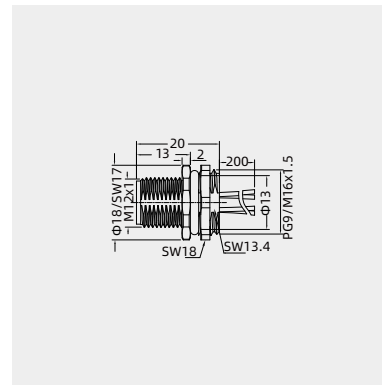


A-Code



Contacts	screw	Designation	Order No.
4	PG9	M12-M04A-BK-PG9-W0.25	163 004 301 4001
	M16x1.5	M12-M04A-BK-M16-W0.25	163 004 301 4021
5	PG9	M12-M05A-BK-PG9-W0.25	163 005 301 4001
	M16x1.5	M12-M05A-BK-M16-W0.25	163 005 301 4021
8	PG9	M12-M08A-BK-PG9-W0.25	163 008 301 4001
	M16x1.5	M12-M08A-BK-M16-W0.25	163 008 301 4021
12	PG9	M12-M12A-BK-PG9-W0.14	163 012 301 4001
	M16x1.5	M12-M12A-BK-M16-W0.14	163 012 301 4002

Customized cable length upon request



Male panel mount connector

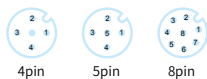
with single wires, 0.25mm²

length 0.2m

Recommended use

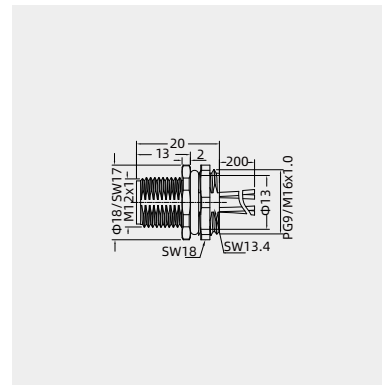


A-Code



Contacts	screw	Designation	Order No.
4	M16x1.0	M12-M04A-BK-M16*1.0-W0.25	163 004 301 4505
5	M16x1.0	M12-M05A-BK-M16*1.0-W0.25	163 005 301 4506
8	M16x1.0	M12-M08A-BK-M16*1.0-W0.25	163 008 301 4507

Customized cable length upon request



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	single-strand wires	single-strand wires	single-strand wires
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.34mm ² (max.AWG22)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated

Socket

Remark: SPQ is 10pcs

Male panel mount connector,
solder

Recommended use



A-Code



4pin



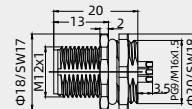
5pin



8pin

Contacts	screw	Designation	Order No.
4	PG9	M12-M04A-BK-PG9-C	163 004 313 1001
	M16x1.5	M12-M04A-BK-M16-C	163 004 313 1021
5	PG9	M12-M05A-BK-PG9-C	163 005 313 1001
	M16x1.5	M12-M05A-BK-M16-C	163 005 313 1021
8	PG9	M12-M08A-BK-PG9-C	163 008 313 1001
	M16x1.5	M12-M08A-BK-M16-C	163 008 313 1021
12	PG9	M12-M12A-BK-PG9-C	163 012 313 1500
	M16x1.5	M12-M12A-BK-M16-C	163 012 313 1501

Customized cable length upon request



M12-A

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	2A	1.5A
Rated voltage	250V	125V	60V	60V
Rated impulse voltage	2500V	1500V	800V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	single-strand wires	single-strand wires	single-strand wires	single-strand wires
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.34mm ² (max.AWG22)	max.0.14mm ² (max.AWG26)
Cable outlet	-	-	-	-
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated

Socket

Remark: SPQ is 1pc

Male panel mount connector
with single wires, 0,25mm2
length 0.2m
front fastened,

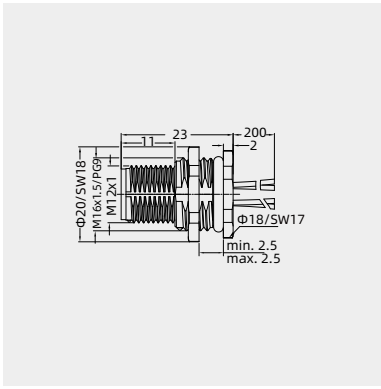


Contacts	screw	Designation	Order No.
4	PG9	M12-M04A-BKR-PG9-W0.25	163 004 301 4011
	M16x1.5	M12-M04A-BKR-M16-W0.25	163 004 301 4031
5	PG9	M12-M05A-BKR-PG9-W0.25	163 005 301 4011
	M16x1.5	M12-M05A-BKR-M16-W0.25	163 005 301 4031
8	PG9	M12-M08A-BKR-PG9-W0.25	163 008 301 4011
	M16x1.5	M12-M08A-BKR-M16-W0.25	163 008 301 4031
12	PG9	M12-M12A-BKR-PG9-W0.14	163 012 301 4011
	M16x1.5	M12-M12A-BKR-M16-W0.14	163 012 301 4012

A-Code



Customized cable length upon request



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	dip solder	dip solder	dip solder
Wire gauge	-	-	-
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated

Socket

Remark: SPQ is 10pcs

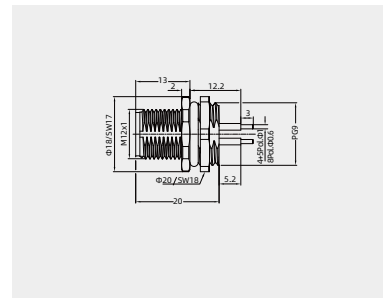
Male panel mount connector, dip solder



A-Code



Contacts	screw	Designation	Order No.
4	PG9	M12-M04A-BK-PG9-D	163 004 314 1001
	M16x1.5	M12-M04A-BK-M16-D	163 004 314 1002
5	PG9	M12-M05A-BK-PG9-D	163 005 314 1001
	M16x1.5	M12-M05A-BK-M16-D	163 005 314 1002
8	PG9	M12-M08A-BK-PG9-D	163 008 314 1001
	M16x1.5	M12-M08A-BK-M16-D	163 008 314 1002



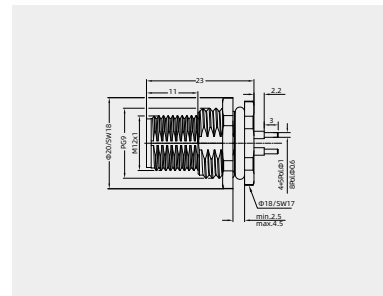
Male panel mount connector, front fastened, dip solder



A-Code



Contacts	screw	Designation	Order No.
4	PG9	M12-M04A-BKR-PG9-D	163 004 314 1011
	M16x1.5	M12-M04A-BKR-M16-D	163 004 614 1001
5	PG9	M12-M05A-BKR-PG9-D	163 005 314 1011
	M16x1.5	M12-M05A-BKR-M16-D	163 005 614 1001
8	PG9	M12-M08A-BKR-PG9-D	163 008 314 1011
	M16x1.5	M12-M08A-BKR-M16-D	163 008 614 1001



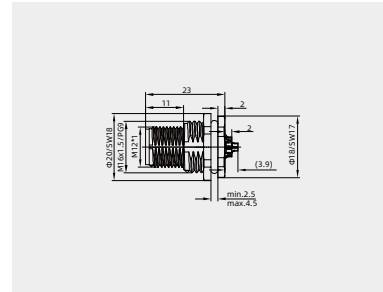
Male panel mount connector, Solder terminal



A-Code



Contacts	screw	Designation	Order No.
12	PG9	M12-M12A-BKR-PG9-C	163 012 313 1502
	M16x1.5	M12-M12A-BKR-M16-C	163 012 313 1503



M12-A Circular Connector

125V 4A

Technical characteristics



	5-pole
Rated current (40°C)	4A
Rated voltage	125V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Termination	Crimp terminal
Wire gauge	max.0.82mm ² (max.AWG18)
Cable outlet	-
Degree of protection	IP67
Mechanical operation	> 100
Limiting temperature	-40°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	zinc diecasting nickel plated

Socket

Male panel mount connector,
Crimp terminal

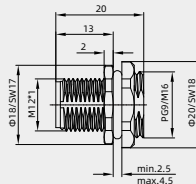


A-Code



5pin

Contacts	screw	Designation	Order No.
5	PG9	M12-MC05A-BK-PG9	163 005 310 1500
	M16x1.5	M12-MC05A-BK-M16	163 005 310 1501



Male panel mount connector,
front fastened, Crimp terminal

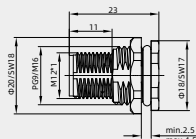


A-Code



Spin

Contacts	screw	Designation	Order No.
5	PG9	M12-MC05A-BKR-PG9	163 005 310 1506
	M16x1.5	M12-MC05A-BKR-M16	163 005 310 1507



Crimp contacts

Crimp contacts 5A

Contact resistance $\leq 5\text{m}\Omega$

gold plated



Wire gauge	Designation	Order No.
0.09-0.25	M12-MC4G-0.25	101 013 210 0150
0.13-0.33	M12-MC4G-0.33	101 013 210 0250
0.33-0.52	M12-MC4G-0.52	101 013 210 0550
0.52-0.82	M12-MC4G-0.82	101 013 210 0750

The diagram shows a bolted joint with dimensions a, b, c, d, e, f . Below the diagram is a table with two columns: 'Wire gauge' and 'Strip length'.

Wire gauge	Strip length	
0.09-0.25mm	AWG28-24	4mm
0.13-0.33mm	AWG26-22	4mm
0.33-0.52mm	AWG22-20	4mm
0.52-0.82mm	AWG22-18	4mm

Tools

Remark: SPQ is 1pc

Crimping tool



Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

M12-A Circular Connector

125/250V 2/4A

Technical characteristics



	4-pole	5-pole
Rated current (40°C)	4A	4A
Rated voltage	250V	125V
Rated impulse voltage	2500V	1500V
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1
Termination	Solder terminal	Solder terminal
Wire gauge	-	-
Cable outlet	-	-
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PA	PA
Material of housing	copper alloy	copper alloy

Socket

Male panel mount connector,
Crimp terminal

Contacts	Designation	Order No.
4	M12-M04A-BKR-M12-CTD	163 004 314 1500
5	M12-M05A-BKR-M12-CTD	163 005 314 1502



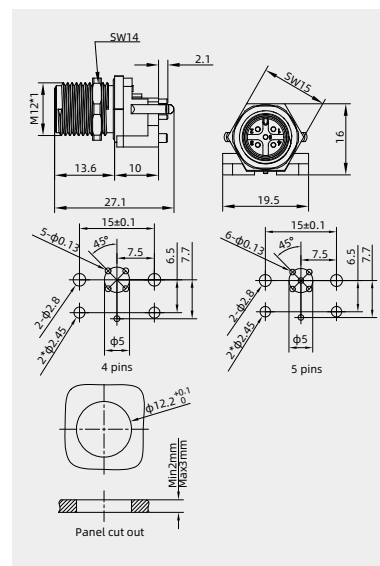
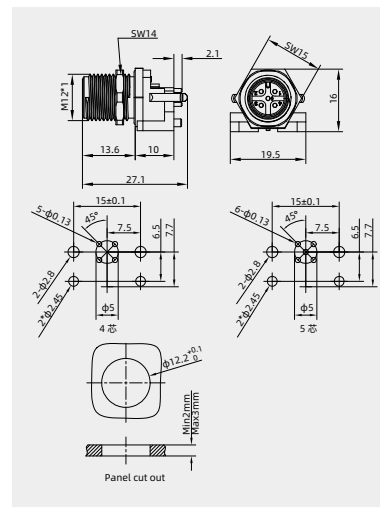
A-Code

Male panel mount connector,
front fastened, Crimp terminal

Contacts	Designation	Order No.
4	M12-M04A-BKR-M12-CTD-SH	163 005 313 2504
5	M12-M05A-BKR-M12-CTD-SH	163 004 314 2500



A-Code



M12-A

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics



	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	Solder terminal	Solder terminal	Solder terminal
Wire gauge	-	-	-
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	copper alloy	copper alloy	copper alloy

Socket

Male panel mount connector,
Solder terminal

A-Code

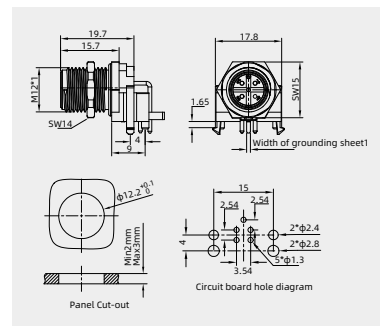


4pin



5pin

Contacts	screw	Designation	Order No.
4		M12-M04A-BKR-M12-SD	163 004 314 2507
5		M12-M05A-BKR-M12-SD	163 005 313 1500

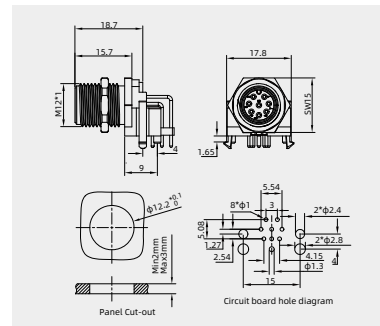
Male panel mount connector,
Solder terminal

A-Code



8pin

Contacts	screw	Designation	Order No.
8		M12-M08A-BKR-M12-SD	163 008 314 1500



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics



	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	Solder terminal	Solder terminal	Solder terminal
Wire gauge	-	-	-
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	copper alloy	copper alloy	copper alloy

Socket

Male panel mount connector,
Solder terminal, shielding

A-Code



4pin



5pin

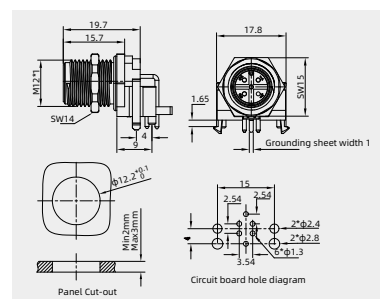
Male panel mount connector,
Solder terminal, shielding

A-Code

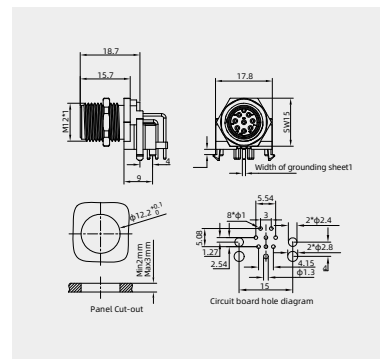


8pin

Contacts	Designation	Order No.
4	M12-M04A-BKR-M12-SD-SH	163 004 314 2506
5	M12-M05A-BKR-M12-SD-SH	163 005 310 2509



Contacts	Designation	Order No.
8	M12-M08A-BKR-M12-SD-SH	163 008 299 2500



M12-A

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	2A	1.5A
Rated voltage	250V	125V	60V	60V
Rated impulse voltage	2500V	1500V	800V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw	screw	screw	screw
Termination	solder,single-strand wires	solder,single-strand wires	solder,single-strand wires	solder,single-strand wires
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.34mm ² (max.AWG22)	max.0.14mm ² (max.AWG26)
Cable outlet	-	-	-	-
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated

Socket

Female panel mount connector
with single wires, /0.25mm²/length
0.2m



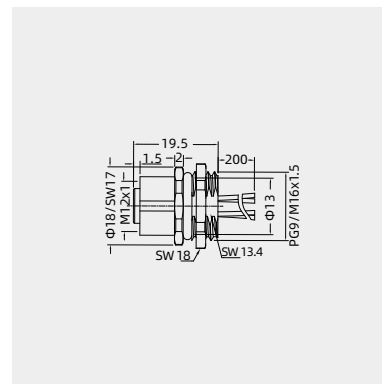
A-Code



Remark: SPQ is 1pc

Contacts	screw	Designation	Order No.
4	PG9	M12-F04A-BK-PG9-W0.25	163 004 302 4001
	M16x1.5	M12-F04A-BK-M16-W0.25	163 004 302 4021
5	PG9	M12-F05A-BK-PG9-W0.25	163 005 302 4001
	M16x1.5	M12-F05A-BK-M16-W0.25	163 005 302 4021
8	PG9	M12-F08A-BK-PG9-W0.25	163 008 302 4001
	M16x1.5	M12-F08A-BK-M16-W0.25	163 008 302 4021
12	PG9	M12-F12A-BK-PG9-W0.14	163 012 302 4001
	M16x1.5	M12-F12A-BK-M16-W0.14	163 012 302 4002

Customized cable length upon request



Female panel mount connector, solder
PG9/M16x1.5

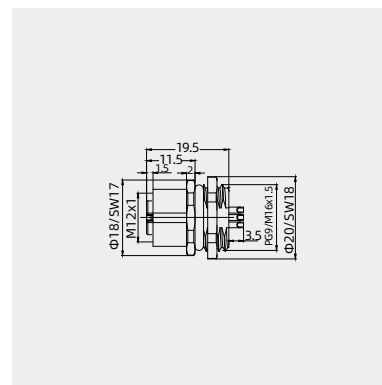


A-Code



Remark: SPQ is 10pcs

Contacts	screw	Designation	Order No.
4	PG9	M12-F04A-BK-PG9-C	163 004 323 1001
	M16x1.5	M12-F04A-BK-M16-C	163 004 323 1021
5	PG9	M12-F05A-BK-PG9-C	163 005 323 1001
	M16x1.5	M12-F05A-BK-M16-C	163 005 323 1021
8	PG9	M12-F08A-BK-PG9-C	163 008 324 1002
	M16x1.5	M12-F08A-BK-M16-C	163 008 302 1011
12	PG9	M12-F12A-BK-PG9-C	163 012 323 1500
	M16x1.5	M12-F12A-BK-M16-C	163 012 323 1501



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics

	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	2A	1.5A
Rated voltage	250V	125V	60V	60V
Rated impulse voltage	2500V	1500V	800V	800V
Pollution degree	3	3	3	3
Overvoltage categorie	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw	screw	screw	screw
Termination	single-strand wires	single-strand wires	single-strand wires	single-strand wires
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.34mm ² (max.AWG22)	max.0.14mm ² (max.AWG26)
Cable outlet	-	-	-	-
Degree of protection	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA
Material of housing	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated

Socket

Female panel mount connector,
front fastened, with single wires,
0.25mm²/length 0.2m



A-Code

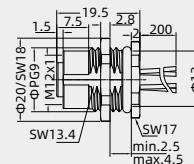


4pin 5pin 8pin 12pin

Remark: SPQ is 1pc

Contacts	screw	Designation	Order No.
4	PG9	M12-F04A-BKR-PG9-W0.25	163 004 302 4011
	M16x1.5	M12-F04A-BKR-M16-W0.25	163 004 302 4031
5	PG9	M12-F05A-BKR-PG9-W0.25	163 005 302 4011
	M16x1.5	M12-F05A-BKR-M16-W0.25	163 005 302 4031
8	PG9	M12-F08A-BKR-PG9-W0.25	163 008 302 4011
	M16x1.5	M12-F08A-BKR-M16-W0.25	163 008 624 1002
12	PG9	M12-F12A-BKR-PG9-W0.14	163 012 302 4003
	M16x1.5	M12-F12A-BKR-M16-W0.14	163 012 302 4004

Customized cable length upon request



M12-A

M12-A Circular Connector

125/250V 4A

Technical characteristics

	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw	screw	screw
Termination	solder,dip solder	solder,dip solder	solder,dip solder
Wire gauge	max. 0.75mm ² (max. AWG18)	max. 0.75mm ² (max. AWG18)	max.0.34mm ² (max.AWG22)
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	zinc diecasting nickel plated	zinc diecasting nickel plated	zinc diecasting nickel plated

Socket

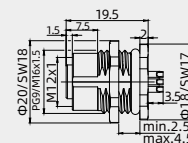
Remark: SPQ is 10pcs

Female panel mount connector,
solder, front fastened

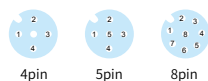
A-Code



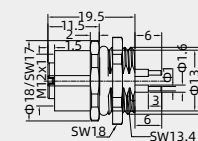
Contacts	screw	Designation	Order No.
4	PG9	M12-F04A-BKR-PG9-C	163 004 323 1011
	M16x1.5	M12-F04A-BKR-M16-C	163 004 624 1003
5	PG9	M12-F05A-BKR-PG9-C	163 005 323 1011
	M16x1.5	M12-F05A-BKR-M16-C	163 005 624 1001
8	PG9	M12-F08A-BKR-PG9-C	163 008 323 1011
	M16x1.5	M12-F08A-BKR-M16-C	163 008 323 1012
12	PG9	M12-F12A-BKR-PG9-C	163 012 323 1502
	M16x1.5	M12-F12A-BKR-M16-C	163 012 323 1503

Female panel mount connector,
dip solder

A-Code



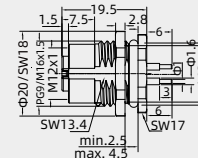
Contacts	screw	Designation	Order No.
4	PG9	M12-F04A-BK-PG9-D	163 004 324 1001
	M16x1.5	M12-F04A-BK-M16-D	163 004 324 1002
5	PG9	M12-F05A-BK-PG9-D	163 005 324 1001
	M16x1.5	M12-F05A-BK-M16-D	163 005 324 1002
8	PG9	M12-F08A-BK-PG9-D	163 008 324 1003
	M16x1.5	M12-F08A-BK-M16-D	163 008 324 1001

Female panel mount connector,
dip solder, front fastened

A-Code



Contacts	screw	Designation	Order No.
4	PG9	M12-F04A-BKR-PG9-D	163 004 324 1011
	M16x1.5	M12-F04A-BKR-M16-D	163 004 624 1004
5	PG9	M12-F05A-BKR-PG9-D	163 005 324 1011
	M16x1.5	M12-F05A-BKR-M16-D	163 005 624 1002
8	PG9	M12-F08A-BKR-PG9-D	163 008 324 1011
	M16x1.5	M12-F08A-BKR-M16-D	163 008 624 1001



M12-A Circular Connector

125V 4A

Technical characteristics



	5-pole
Rated current (40°C)	4A
Rated voltage	125V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	II
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Termination	Crimp terminal
Wire gauge	max.0.82mm ² (max.AWG18)
Cable outlet	-
Degree of protection	IP67
Mechanical operation	> 100
Limiting temperature	-40°C ...+85°C
Material group	II
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	zinc diecasting nickel plated

Socket

Female panel mount connector,
Crimp terminal

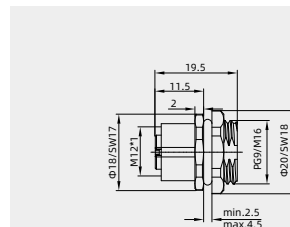


A-Code



5pin

Contacts	screw	Designation	Order No.
5	PG9	M12-FC05A-BK-PG9	163 005 320 1502
	M16x1.5	M12-FC05A-BK-M16	163 005 320 1503



Female panel mount connector,
front fastened, Crimp terminal

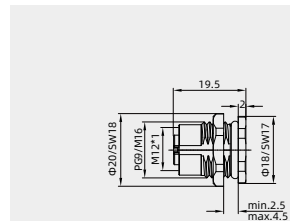


A-Code



5pin

Contacts	screw	Designation	Order No.
5	PG9	M12-FC05A-BKR-PG9	163 005 320 1508
	M16x1.5	M12-FC05A-BKR-M16	163 005 320 1509



Crimp contacts

Crimp contacts 5A

Contact resistance ≤ 5mΩ

gold plated



Contacts	Designation	Order No.
0.09-0.25	M12-FC4G-0.25	101 013 220 0150
0.13-0.33	M12-FC4G-0.33	101 013 220 0250
0.33-0.52	M12-FC4G-0.52	101 013 220 0550
0.52-0.82	M12-FC4G-0.82	101 013 220 0750

a	b	c	d	e	f	
8.10	4.0	13.7	0.64	1.66	11.7	
8.10	4.0	13.7	0.9	1.66	11.7	
8.10	4.0	13.7	1.12	1.66	11.7	
8.23	4.0	13.7	1.35	1.75	11.7	
Wire gauge			Strip length			
0.09-0.25mm ²	AWG28-24		4mm			
0.13-0.33mm ²	AWG26-22		4mm			
0.33-0.52mm ²	AWG22-20		4mm			
0.52-0.82mm ²	AWG22-18		4mm			

Tools

Crimping tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.09-0.82mm ²	TL03	198 001 001 0002

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

M12-A Circular Connector

125/250V 2/4A

Technical characteristics



	4-pole	5-pole
Rated current (40°C)	4A	4A
Rated voltage	250V	125V
Rated impulse voltage	2500V	1500V
Pollution degree	3	3
Overvoltage categorie	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1
Termination	Solder terminal	Solder terminal
Wire gauge	-	-
Cable outlet	-	-
Degree of protection	IP67	IP67
Mechanical operation	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II
Material of contact	copper alloy	copper alloy
Contact plating	Au	Au
Insulating material	PA	PA
Material of housing	copper alloy	copper alloy

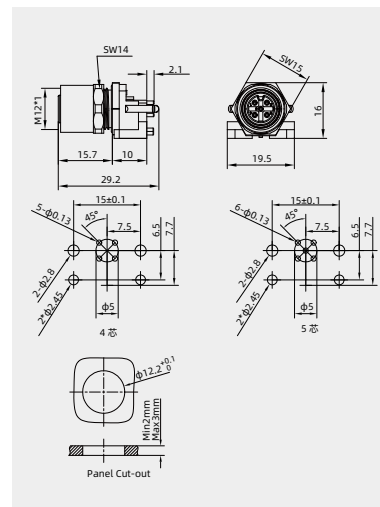
Socket

Female panel mount connector,
Crimp terminal

Contacts	Designation	Order No.
4	M12-F04A-BKR-M12-CTD	163 004 324 1508
5	M12-F05A-BKR-M12-CTD	163 005 324 2503



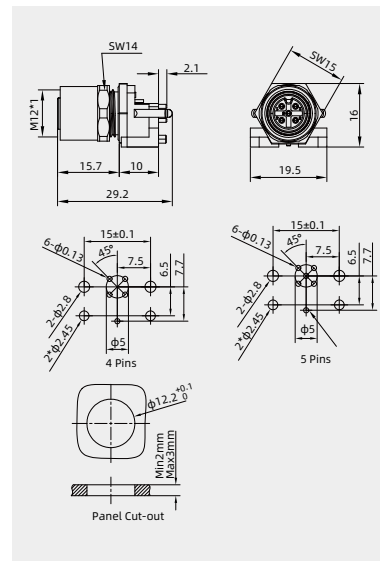
A-Code

Female panel mount connector,
front fastened, Crimp terminal

Contacts	Designation	Order No.
4	M12-F04A-BKR-M12-CTD-SH	163 004 324 2511
5	M12-F05A-BKR-M12-CTD-SH	163 005 324 2502



A-Code



M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics



	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	$\leq 10 \text{ m}\Omega$	$\leq 10 \text{ m}\Omega$	$\leq 10 \text{ m}\Omega$
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	Solder terminal	Solder terminal	Solder terminal
Wire gauge	-	-	-
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	copper alloy	copper alloy	copper alloy

Socket

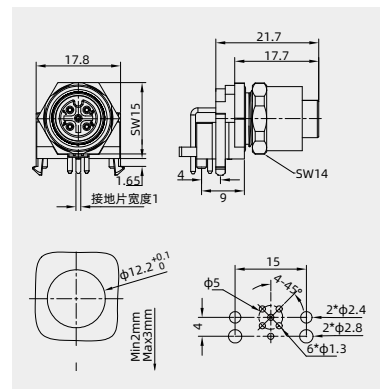
Female panel mount connector,
Solder terminal



A-Code



Contacts	Designation	Order No.
4	M12-F04A-BKR-M12-SD	163 004 324 1509
5	M12-F05A-BKR-M12-SD	163 005 324 1501



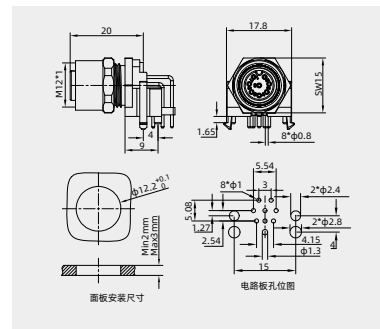
Female panel mount connector,
Solder terminal



A-Code



Contacts	Designation	Order No.
8	M12-F08A-BKR-M12-SD	163 008 324 1500



M12-A

M12-A Circular Connector

60/125/250V 2/4A

Technical characteristics



	4-pole	5-pole	8-pole
Rated current (40°C)	4A	4A	2A
Rated voltage	250V	125V	60V
Rated impulse voltage	2500V	1500V	800V
Pollution degree	3	3	3
Overvoltage categorie	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1
Termination	Solder terminal	Solder terminal	Solder terminal
Wire gauge	-	-	-
Cable outlet	-	-	-
Degree of protection	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au
Insulating material	PA	PA	PA
Material of housing	copper alloy	copper alloy	copper alloy

Socket

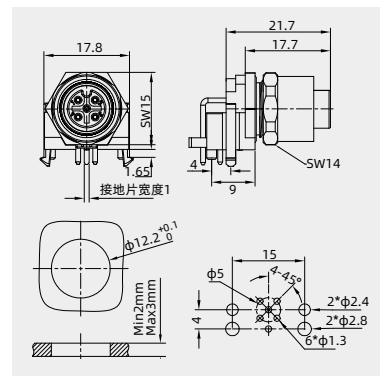
Female panel mount connector,
Solder terminal, shielding



A-Code



Contacts	Designation	Order No.
4	M12-F04A-BKR-M12-SD-SH	163 004 324 2512
5	M12-F05A-BKR-M12-SD-SH	163 005 310 2508



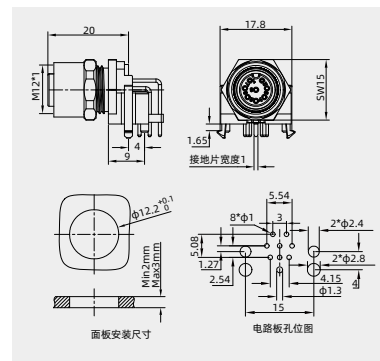
Female panel mount connector,
Solder terminal, shielding



A-Code



Contacts	Designation	Order No.
8	M12-F08A-BKR-M12-SD-SH	163 008 302 1502



Accessories

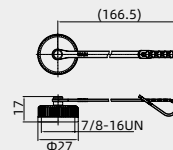
Protection covers IP67

Protection cover
for male cable connector



Remark: SPQ is 10pcs

Description	Designation	Order No.
Without cord	M12-MCV	163 000 001 9003
With cord	M12-MCV/1	163 000 001 9001

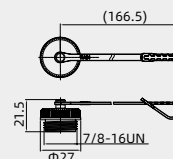


Protection cover
for female cable connector



Remark: SPQ is 10pcs

Description	Designation	Order No.
Without cord	M12-FCV	163 000 002 9003
With cord	M12-FCV/1	163 000 002 9001

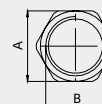


Hexagonal nut for fixing thread



Remark: SPQ is 1pc

screw	Designation	Order No.
PG9	WNA-PG9/S	102 105 002 1101
M16X1.5	WNA-M16/S	102 105 013 1101



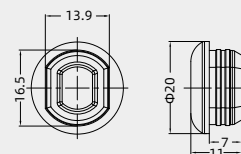
A	B
SW18	PG9
SW19	M16x1,5

Protection covers, for flange
mount panel



Remark: SPQ is 10pcs

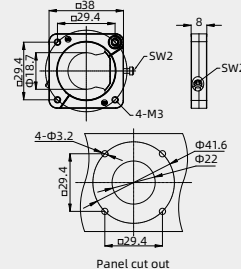
Description	Designation	Order No.
Dust-proof	M12-WNPP-M16/BK	163 000 000 9001



Fixed plate



Description	Designation	Order No.
immobilization	M12P-BK38-Φ18.5	163 000 000 3501

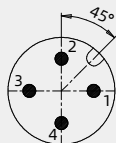


M12-A

• Contact arrangements

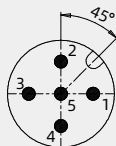
• Male insert (mating side)

4contacts



	X	Y	
1	2.50	0.00	1. brown
2	0.00	2.50	2. white
3	-2.50	0.00	3. blue
4	0.00	-2.50	4. black

5contacts



	X	Y	
1	2.50	0.00	1. brown
2	0.00	2.50	2. white
3	-2.50	0.00	3. blue
4	0.00	-2.50	4. black
5	0.00	0.00	5. grey

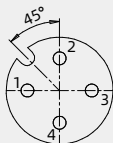
8contacts



	X	Y	
1	2.69	0.57	1. white
2	0.57	2.69	2. brown
3	-1.66	2.20	3. green
4	-2.75	0.19	4. yellow
5	-1.94	-1.94	5. grey
6	0.19	-2.74	6. pink
7	2.20	-1.65	7. blue
8	0.00	0.00	8. red

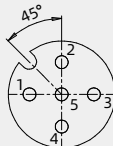
• Female insert (mating side)

4contacts



	X	Y	
1	-2.50	0.00	1. brown
2	0.00	2.50	2. white
3	2.50	0.00	3. blue
4	0.00	-2.50	4. black

5contacts



	X	Y	
1	-2.50	0.00	1. brown
2	0.00	2.50	2. white
3	2.50	0.00	3. blue
4	0.00	-2.50	4. black
5	0.00	0.00	5. grey

8contacts

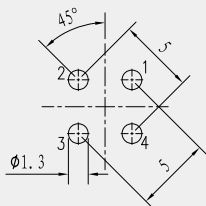


	X	Y	
1	-2.69	0.57	1. white
2	0.57	2.69	2. brown
3	1.66	2.20	3. green
4	2.75	0.19	4. yellow
5	1.94	-1.94	5. grey
6	-0.19	-2.75	6. pink
7	-2.20	-1.66	7. blue
8	0.00	0.00	8. red

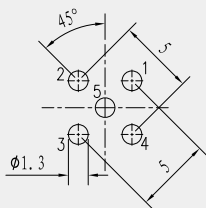
- Panel cut out

- Opening hole drawing male insert(PCB),
Panel mount connectors

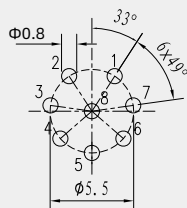
4contacts



5contacts

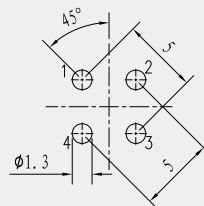


8contacts

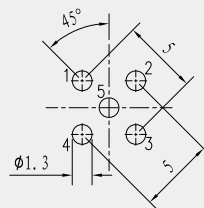


- Opening hole drawing female insert(PCB),
Panel mount connectors

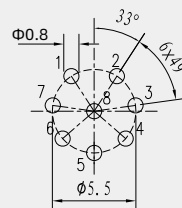
4contacts



5contacts



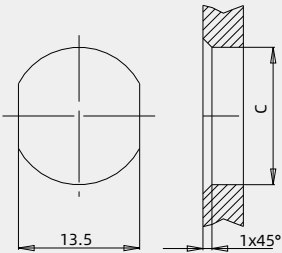
8contacts



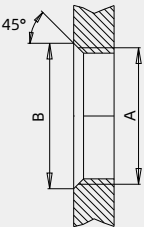
• Panel cut out

• Panel mount connectors

• Through-hole mounting



• Screw mounting

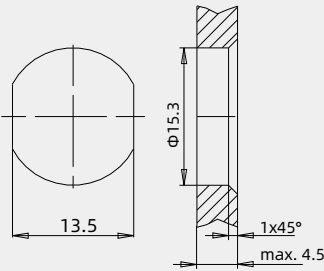


	A	B	C
PG9	PG9	16.2	15.3
PG13.5	PG13.5	21.5	20.5
M16x1.5	M16x1.5	17.0	16.1
M20x1.5	M20x1.5	21.0	20.1

Tightening torque according to DIN VDE 0619
Metal housing 6,25 Nm
Plastic housing 3,75 Nm

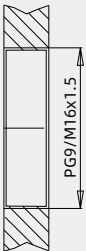
• Panel mount connectors
Rear panel mounting,
front tighten

• Through-hole mounting



• Panel mount connectors
front tighten

• 通孔安装



Tightening torque 6,25 Nm



M12-A