

M12 Circular Connector,Y-code



M12-Y

M12-Y Circular Connector

50V 6A/0.5A

Technical characteristics

	4+4
Rated current (40°C)	6A/0.5A
Rated voltage	50V
Rated impulse voltage	1500V
Pollution degree	3
Overvoltage categorie	≤ 10 mΩ
Contact resistance	≥ 100mΩ
Connector locking system	screw M12x1
Termination	Crimp terminal
Wire gauge	0.13-0.82mm ² (AWG26-18) / 0.08-0.25mm ² (AWG28-23)
Cable diameter	6-8mm
Degree of protection	IP67
Mechanical operation	> 100
Limiting temperature	-40°C ...+85°C
Material of contact	copper alloy
Contact plating	Au
Insulating material	PA
Material of housing	zinc diecasting nickel plated



crimp connector

Male cable connector,

Crimp terminal ,with shielding ring

Order crimp contacts separately

Y-Code

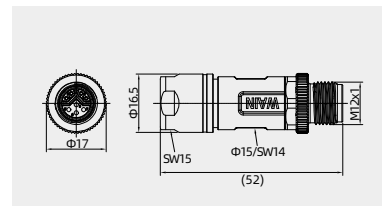


8pin



Contacts	Cable outlet	Designation	Order No.
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8	6-8 mm	M12-MC04/04Y-T-D8-SH	163 008 410 2501
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Female cable connector,

Crimp terminal ,with shielding ring

Order crimp contacts separately

Y-Code

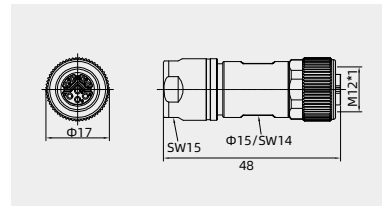


8pin



Contacts	Cable outlet	Designation	Order No.
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8	6-8 mm	M12-FC04/04Y-T-D8-SH	163 008 420 2504
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Crimp contacts

Crimp contacts 5A

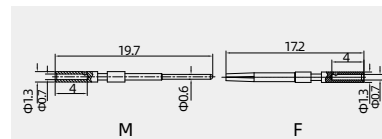
Contact resistance ≤ 3mΩ
gold plated

signal(X4)



Remark: SPQ is 100pcs

Wire gauge(mm ²)	Male	Order No.
0.09-0.25	M12-MC0.5G-0.25	101 038 210 0101
Wire gauge(mm ²)	Female	Order No.
0.09-0.25	M12-FC0.5G-0.25	101 038 220 0101



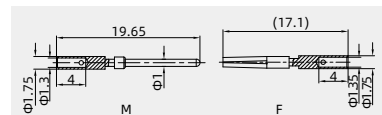
Detail please find the crimp contacts series

Crimp contacts

power(X4)



Wire gauge(mm ²)	Male	Order No.
0.13-0.33	M12-MC6.0G-0.33	101 047 210 0250
0.33-0.52	M12-MC6.0G-0.52	101 047 210 0550
0.52-0.82	M12-MC6.0G-0.82	101 047 210 0750
Wire gauge(mm ²)	Female	Order No.
0.13-0.33	M12-FC6.0G-0.33	101 047 220 0250
0.33-0.52	M12-FC6.0G-0.52	101 047 220 0550
0.52-0.82	M12-FC6.0G-0.82	101 047 220 0750



Wire gauge		d	D	Stripping Length
0.13-0.33mm ²	AWG26-22	0.9	1.75	4mm
0.33-0.52mm ²	AWG22-20	1.12	1.75	4mm
0.52-0.82mm ²	AWG22-18	1.35	1.75	4mm

Tools

Remark: SPQ is 1pc

Crimping tool



Wire gauge	Designation	Order No.
0.09-0.25mm ²	TL27	198 001 001 0037

Tools

Remark: SPQ is 1pc

Crimping tool



Wire gauge	Designation	Order No.
0.09-0.82 mm 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-Y Circular Connector

50V 6A/0.5A

Technical characteristics



Number of contacts	8(4+4)
Rated current(40°C)	6A/0.5A
Rated voltage	50V
Rated impulse voltage	800V
Pollution degree	3
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Wire gauge	max.0.14mm ² +0.5mm ² (AWG26+AWG20)
Degree of protection	IP67
Mechanical operation	>100
Limiting temperature	-25°C ...+85°C
Material of contact	copper alloy
Contact plating	Au
Surface finishes	PC+ABS
Material of housing	copper alloyNickel-plated

Molded Straight Plug with Cable

Male cable connector

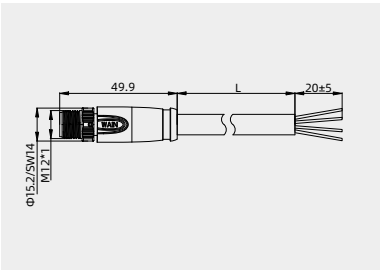


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Contacts	Cable outlet	Designation	Order No.
8(4+4)	1.5m	M12-M04/4Y-T-1.5-PUR/20-SH	163 008 410 4503
	5.0m	M12-M04/4Y-T-5.0-PUR/20-SH	163 008 410 4504



Female cable connector

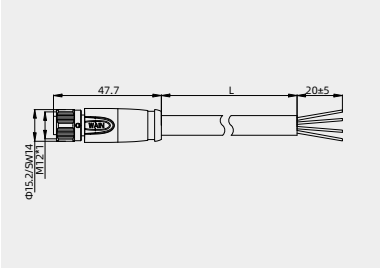


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Contacts	Cable outlet	Designation	Order No.
8(4+4)	1.5m	M12-F04/4Y-T-1.5-PUR/20-SH	163 008 420 4501
	0.5m	M12-F04/4Y-T-5.0-PUR/20-SH	163 008 420 4502



M12-Y Circular Connector

50V 6A/0.5A

Technical characteristics



Number of contacts	8(4+4)
Rated current(40°C)	6A/0.5A
Rated voltage	50V
Rated impulse voltage	800V
Pollution degree	3
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Wire gauge	max.0.14mm ² +0.5mm ² (AWG26+AWG20)
Degree of protection	IP67
Mechanical operation	>100
Limiting temperature	-25°C ...+85°C
Material of contact	copper alloy
Contact plating	Au
Surface finishes	PC+ABS
Material of housing	copper alloyNickel-plated

Right-Angle Overmolded Plug with Cable

Male cable connector

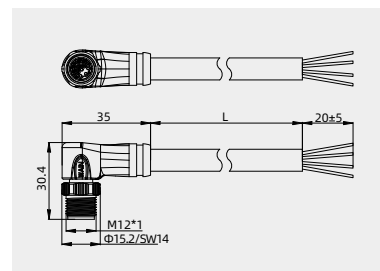


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Contacts	Cable outlet	Designation	Order No.
8(4+4)	1.5m	M12-M04/4Y-S-1.5-PUR/20-SH	163 008 510 4500
	5.0m	M12-M04/4Y-S-5.0-PUR/20-SH	163 008 510 4501



Female cable connector

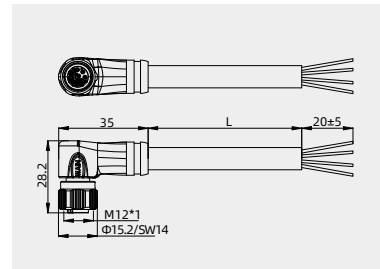


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Contacts	Cable outlet	Designation	Order No.
8(4+4)	1.5m	M12-F04/4Y-S-1.5-PUR/20-SH	163 008 520 4501
	0.5m	M12-F04/4Y-S-5.0-PUR/20-SH	163 008 520 4502



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Rated impulse voltage	800V
Pollution degree	3
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Wire gauge	max.0.14mm ² +0.5mm ² (AWG26+AWG20)
Degree of protection	IP67
Mechanical operation	>100
Limiting temperature	-40°C ...+85°C
Material of contact	copper alloy
Contact plating	Au
Surface finishes	PA
Material of housing	zinc diecasting nickel plated

Socket

Front panel mounting

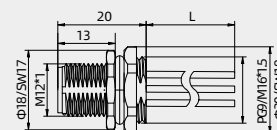


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Contacts	Cable outlet	Designation	Order No.
8(4+4)	PG9	M12-M04/4Y-BK-PG9-W0.5/W0.14	163 008 310 4500
	M16*1.5	M12-M04/4Y-BK-M16-W0.5/W0.14	163 008 310 4501



Panel mount connectors

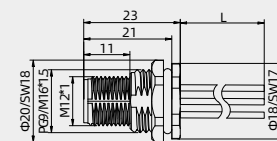


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Contacts	Cable outlet	Designation	Order No.
8(4+4)	PG9	M12-M04/4Y-BKR-PG9-W0.5/W0.14	163 008 310 4502
	M16*1.5	M12-M04/4Y-BKR-M16-W0.5/W0.14	163 008 310 4503



M12-Y Circular Connector

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Technical characteristics



Number of contacts	8(4+4)
Rated current(40°C)	6A/0.5A
Rated voltage	50V
Rated impulse voltage	800V
Pollution degree	3
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Wire gauge	max.0.14mm ² +0.5mm ² (AWG26+AWG20)
Degree of protection	IP67
Mechanical operation	>100
Limiting temperature	-40°C ...+85°C
Material of contact	copper alloy
Contact plating	Au
Surface finishes	PA
Material of housing	zinc diecasting nickel plated

Socket

Front panel mounting

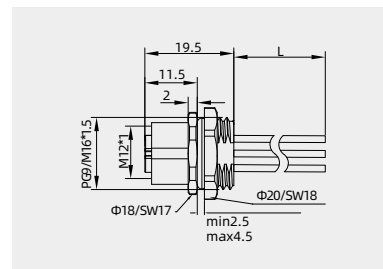


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Contacts	Cable outlet	Designation	Order No.
8(4+4)	PG9	M12-F04/4Y-BK-PG9-W0.5/W0.14	163 008 302 4575
	M16*1.5	M12-F04/4Y-BK-M16-W0.5/W0.14	163 008 302 4573



Panel mount connectors

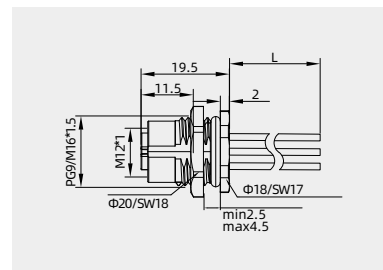


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Contacts	Cable outlet	Designation	Order No.
8(4+4)	PG9	M12-F04/4Y-BKR-PG9-W0.5/W0.14	163 008 302 4577
	M16*1.5	M12-F04/4Y-BKR-M16-W0.5/W0.14	163 008 302 4576



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Technical characteristics



Number of contacts	8(4+4)
Rated current(40°C)	6A/0.5A
Rated voltage	50V
Rated impulse voltage	800V
Pollution degree	3
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Wire gauge	max.0.14mm ² +0.5mm ² (AWG26+AWG20)
Degree of protection	IP67
Mechanical operation	>100
Limiting temperature	-40°C ...+85°C
Material of contact	copper alloy
Contact plating	Au
Surface finishes	PA
Material of housing	zinc diecasting nickel plated

Socket

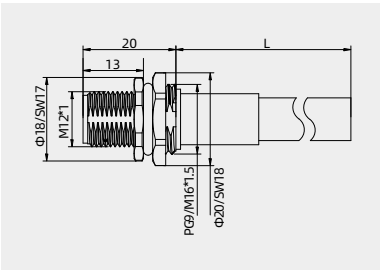
Front panel mounting



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Contacts	Cable outlet	Designation	Order No.
8(4+4)	PG9	M12-M04/4Y-BK-PG9-0.5-PUR-Cat.5e	163 008 310 4504
	M16*1.5	M12-M04/4Y-BK-M16-0.5-PUR-Cat.5e	163 008 310 4505



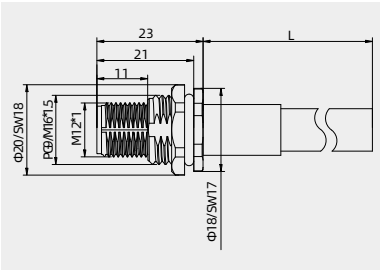
Panel mount connectors



Y-Code



Contacts	Cable outlet	Designation	Order No.
8(4+4)	PG9	M12-M04/4Y-BKR-PG9-0.5-PUR-Cat.5e	163 008 310 4506
	M16*1.5	M12-M04/4Y-BKR-M16-0.5-PUR-Cat.5e	163 008 310 4507



M12-Y Circular Connector

50V 6A/0.5A

Technical characteristics



Number of contacts	8(4+4)
Rated current(40°C)	6A/0.5A
Rated voltage	50V
Rated impulse voltage	800V
Pollution degree	3
Contact resistance	≤ 10 mΩ
Connector locking system	screw M12x1
Wire gauge	max.0.14mm ² +0.5mm ² (AWG26+AWG20)
Degree of protection	IP67
Mechanical operation	>100
Limiting temperature	-25°C ...+85°C
Material of contact	copper alloy
Contact plating	Au
Surface finishes	PA
Material of housing	zinc diecasting nickel plated

Socket

Front panel mounting

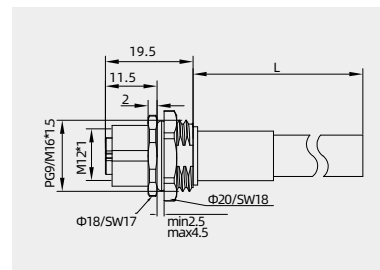


Y-Code



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Contacts	Cable outlet	Designation	Order No.
8(4+4)	PG9	M12-F04/4Y-BK-PG9-0.5-PUR-Cat.5e	163 008 302 4581
	M16*1.5	M12-F04/4Y-BK-M16-0.5-PUR-Cat.5e	163 008 302 4580



Panel mount connectors

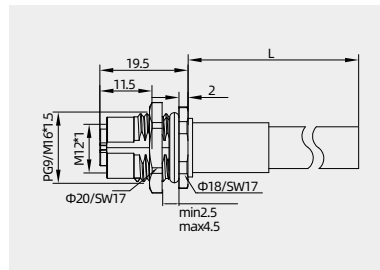


Y-Code



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Contacts	Cable outlet	Designation	Order No.
8(4+4)	PG9	M12-F04/4Y-BKR-PG9-0.5-PUR-Cat.5e	163 008 302 4579
	M16*1.5	M12-F04/4Y-BKR-M16-0.5-PUR-Cat.5e	163 008 302 4578



M12-Y

Accessories

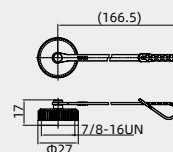
Protection covers IP67

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

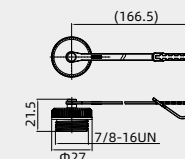


Protection cover
for female cable connector



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

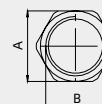


Hexagonal nut for fixing thread



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



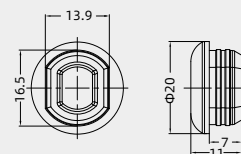
A	B
SW18	PG9
SW19	M16x1,5

Protection covers, for flange
mount panel



Remark: SPQ is 10pcs

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

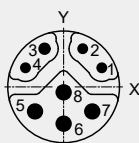


M12-Y Circular Connector

- Contact arrangements

- Male insert (mating side)

8contacts

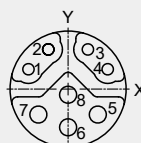


	X	Y
1	2.8	1.4
2	1.4	2.8
3	-1.4	2.8
4	-2.8	1.4
1	-2.1	-1.8
2	0	-2.7
3	2.1	-8
4	0	-0.4

1. White/White and orange
2. Orange
3. White/White and Green
4. Green
5. Blue
6. White
7. Brown
8. Black

- Female insert (mating side)

8contacts



	X	Y
1	-2.8	1.4
2	-1.4	2.8
3	1.4	2.8
4	2.8	1.4
1	2.1	-1.8
2	0	-2.7
3	-2.1	-8
4	0	-0.4

1. White/White and Orange
2. Orange
3. White/White and Green
4. Green
5. Blue
6. White
7. Brown
8. Black