

M40 Circular power connectors



M40

Circular Connector M40

250/630V 30/75A

Technical characteristics

Specifications	
Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Electrical data	
Number of contacts	4/2、4/4、4/5
Electrical properties	
-Rated current	75A (power) 30A (signal)
-Rated voltage	630V (power) 250V (signal)
-Rated impulse voltage	6000V (power) 4000V (signal)
-Contact resistance	$\phi 3.6$ (power): $\leq 1 \text{ m}\Omega$ $\phi 2$ (signal): $\leq 3 \text{ m}\Omega$
Material and finish	
-Housing material	copper alloyNickel-plated、zinc alloyNickel-plated
-contact	copper alloygold plated
-Insulating material	PA
-Sealing element	FKM

Mechanical properties	
-Mechanical working life	≥ 500
-Lock mode	M40×1.5
-Cable and outlet diameter	$\phi 7$ - $\phi 25$
Environmental performance	
-Limiting temperature	-40°C ...+130°C
-Degree of protection	IP67
-Pollution degree	3

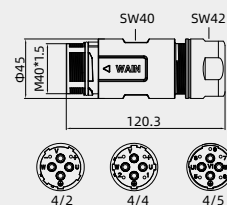
Remark: SPQ is 1pc

Crimp terminal

Order crimp contacts separately



Contacts	Cable outlet	Designation	Order No.
6(5+PE)	7-9mm	M40-MC04/2-T-D9-SH	170 006 410 2002
	9-16mm	M40-MC04/2-T-D16-SH	170 006 410 2001
	16.5-25mm	M40-MC04/2-T-D25-SH	170 006 410 2003
	7-9mm	M40-MC04/4-T-D9-SH	170 008 410 2001
	9-16mm	M40-MC04/4-T-D16-SH	170 008 430 2001
	16.5-25mm	M40-MC04/4-T-D25-SH	170 008 410 2003
	7-9mm	M40-MC04/5-T-D9-SH	170 009 410 2001
	9-16mm	M40-MC04/5-T-D16-SH	170 009 410 2002
	16.5-25mm	M40-MC04/5-T-D25-SH	170 009 410 2003



Accessories

30A/75ACrimp contacts

signal



power



NO.	Wire gauge(mm ²)	Male	Order No.
①	0.35-2.5	M40-MCL30G-2.5	101 032 210 1012
②	2.5-4.0	M40-MCL30G-4.0	101 032 210 1202

Remark: SPQ is 100pcs

NO.	Wire gauge(mm ²)	Male	Order No.
③	1.5-4/6-10	M40-MCL75G-10	101 034 210 1401
④	6-10/10-16	M40-MCL75G-16	101 034 210 1501

Remark: SPQ is 50pcs

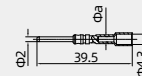
Tools

Crimping tool

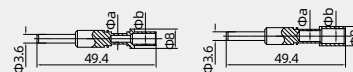


Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL28-2	198 001 001 0039
1.5-10mm ²	TL28-3	198 001 001 0040



NO.	Φa	Stripping Length
①	$\Phi 2.25$	7 mm
②	$\Phi 2.85$	7 mm



NO.	Φa	Φb	Stripping Length
③	$\Phi 2.85$	$\Phi 4.5$	9 mm
④	$\Phi 4.5$	$\Phi 6.1$	9 mm

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

Circular Connector M40

250/630V 30/75A

Technical characteristics

Specifications		
Specifications	DIN EN 60 664	
	DIN EN 61 984	
Approvals		
Electrical data		Mechanical properties
Number of contacts	4/2, 4/4, 4/5	-Mechanical working life ≥ 500
Electrical properties		-Lock mode M40 $\times 1.5$
-Rated current	75A (power)	-Cable and outlet diameter $\phi 7\text{-}\phi 25$
	30A (signal)	Environmental performance
-Rated voltage	630V (power)	-Limiting temperature $-40^{\circ}\text{C} \dots +130^{\circ}\text{C}$
	250V (signal)	-Degree of protection IP67
-Rated impulse voltage	6000V (power)	-Pollution degree 3
	4000V (signal)	
-Contact resistance	$\phi 3.6(\text{power}): \leq 1 \text{ m}\Omega$	
	$\phi 2(\text{signal}): \leq 3 \text{ m}\Omega$	
Material and finish		
-Housing material	copper alloy Nickel-plated, zinc alloy Nickel-plated	
-contact	copper alloy gold plated	
-Insulating material	PA	
-Sealing element	FKM	

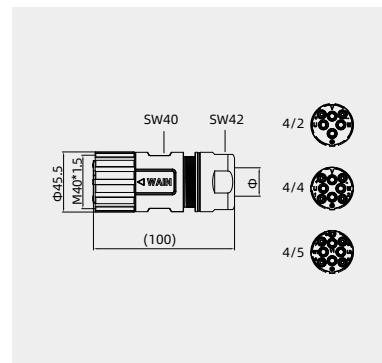
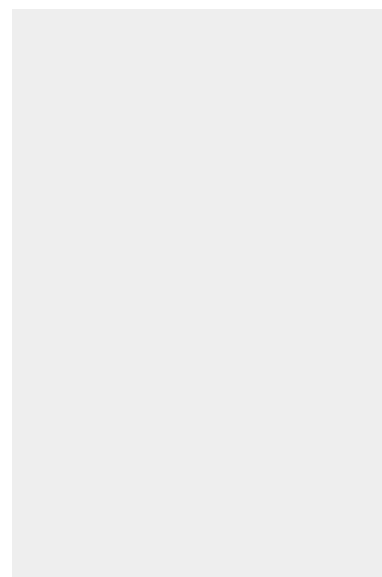
Remark: SPQ is 1pc

Crimp terminal

Order crimp contacts separately



Insert	Cable outlet	Designation	Order No.
Female	7-9mm	M40-FC04/2-T-D9-SH	170 004 420 2005
	9-16mm	M40-FC04/2-T-D16-SH	170 004 420 2001
	16.5-25mm	M40-FC04/2-T-D25-SH	170 004 420 2004
	7-9mm	M40-FC04/4-T-D9-SH	170 008 420 2010
	9-16mm	M40-FC04/4-T-D16-SH	170 008 420 2004
	16.5-25mm	M40-FC04/4-T-D25-SH	170 008 420 2005
	7-9mm	M40-FC04/5-T-D9-SH	170 009 420 2007
	9-16mm	M40-FC04/5-T-D16-SH	170 009 420 2001
	16.5-25mm	M40-FC04/5-T-D25-SH	170 009 420 2006



Accessories

Crimp contacts 30A/75A

signal



power



NO.	Wire gauge(mm ²)	Female	Order No.
①	0.35-2.5	M23-FC30G-2.5	101 032 220 1001
②	2.5-4.0	M23-FC30G-4.0	101 032 220 1201

Remark: SPQ is 100pcs

NO.	Wire gauge(mm ²)	Female	Order No.
③	1.5-4/6-10	M40-FC75G-10	101 034 220 1401
④	6-10/10-16	M40-FC75G-16	101 024 220 1501

Remark: SPQ is 50pcs

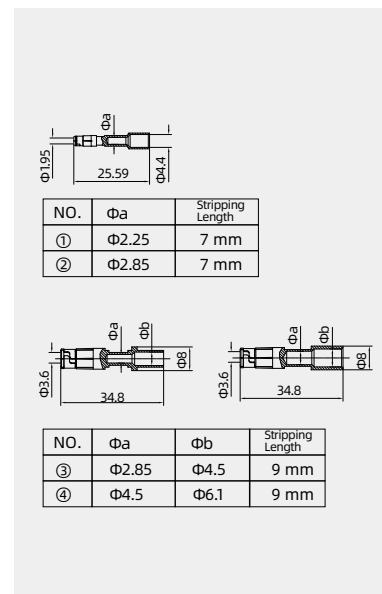
Tools

Crimping tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL28-2	198 001 001 0039
1.5-10mm ²	TL28-3	198 001 001 0040



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

Circular Connector M40

250/630V 30/75A

Technical characteristics



Specifications

Specifications	DIN EN 60 664
	DIN EN 61 984

Approvals

Electrical data

Number of contacts	4/2, 4/4, 4/5
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Electrical properties

-Rated current	75A (power)
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	30A (signal)
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-Rated voltage	630V (power)
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	250V (signal)
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-Rated impulse voltage	6000V (power)
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	4000V (signal)
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-Contact resistance	$\phi 3.6(\text{power}): \leq 1 \text{ m}\Omega$
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	$\phi 2(\text{signal}): \leq 3 \text{ m}\Omega$
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Material and finish

-Housing material	copper alloyNickel-plated, zinc alloyNickel-plated
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-contact	copper alloygold plated
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-Insulating material	PA
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-Sealing element	FKM
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Mechanical properties

-Mechanical working life	≥ 500
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-Lock mode	M40 $\times$ 1.5
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-Cable and outlet diameter	$\phi 7\text{-}\phi 25$
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Environmental performance

-Limiting temperature	-40°C ...+130°C
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-Degree of protection	IP67
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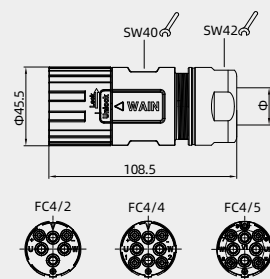
-Pollution degree	3
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Crimp terminal

Order crimp contacts separately



Insert	Cable outlet	Designation	Order No.
Female	7-9mm	M40Q-FC04/2-T-D9-SH	170 006 120 2500
	9-16mm	M40Q-FC04/2-T-D16-SH	170 004 420 2002
	16.5-25mm	M40Q-FC04/2-T-D25-SH	170 006 420 2001
	7-9mm	M40Q-FC04/4-T-D9-SH	170 008 420 2500
	9-16mm	M40Q-FC04/4-T-D16-SH	170 008 420 2007
	16.5-25mm	M40Q-FC04/4-T-D25-SH	170 008 420 2003
	7-9mm	M40Q-FC04/5-T-D9-SH	170 009 420 2503
	9-16mm	M40Q-FC04/5-T-D16-SH	170 009 420 2004
	16.5-25mm	M40Q-FC04/5-T-D25-SH	170 009 420 2005



Accessories

Crimp contacts 30A/75A

signal



power



NO.	Wire gauge(mm ²)	Female	Order No.
①	0.35-2.5	M23-FC30G-2.5	101 032 220 1001
②	2.5-4.0	M23-FC30G-4.0	101 032 220 1201

Remark: SPQ is 100pcs

NO.	Wire gauge(mm ²)	Female	Order No.
③	1.5-4/6-10	M40-FC75G-10	101 034 220 1401
④	6-10/10-16	M40-FC75G-16	101 024 220 1501

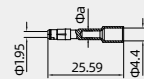
Remark: SPQ is 50pcs

Remark: SPQ is 1pc

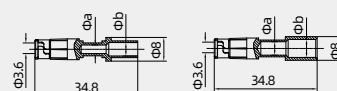
Wire gauge	Designation	Order No.
0.14-4mm ²	TL28-2	198 001 001 0039
1.5-10mm ²	TL28-3	198 001 001 0040

Tools

Crimping tool



NO.	Φa	Stripping Length
①	$\Phi 2.25$	7 mm
②	$\Phi 2.85$	7 mm



NO.	Φa	Φb	Stripping Length
③	$\Phi 2.85$	$\Phi 4.5$	9 mm
④	$\Phi 4.5$	$\Phi 6.1$	9 mm

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

Circular Connector M40

250/630V 30/65A

Technical characteristics

Specifications	
Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	
Electrical data	
Number of contacts	4/2、4/4、4/5
Electrical properties	
-Rated current	65A (power) 30A (signal)
-Rated voltage	630V (power) 250V (signal)
-Rated impulse voltage	6000V (power) 4000V (signal)
-Contact resistance	$\phi 3.6$ (power): $\leq 1 \text{ m}\Omega$ $\phi 2$ (signal): $\leq 3 \text{ m}\Omega$
Material and finish	
-Housing material	copper alloy Nickel-plated、zinc alloy Nickel-plated
-contact	copper alloygold plated
-Insulating material	PA
-Sealing element	FKM

Mechanical properties

-Mechanical working life ≥ 500 -Lock mode M40 $\times$ 1.5-Cable and outlet diameter $\phi 22$

Environmental performance

-Limiting temperature -40°C ...+130°C

-Degree of protection IP67

-Pollution degree 3

Remark: SPQ is 1pc

Crimp terminal

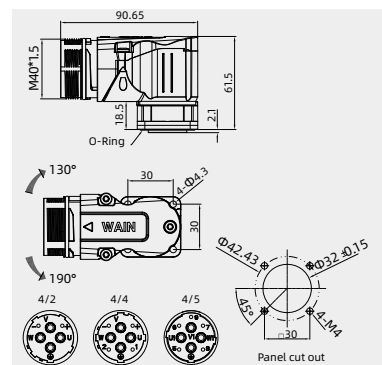
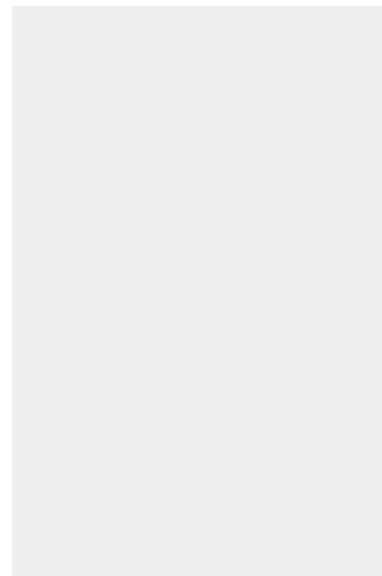
order crimp contacts separately

Rotation type

After fixing, the angle can be rotated up to 320°.



Insert	Cable outlet	Designation	Order No.
Male	$\phi 22$	M40-MC04/2-BKP40-SE	170 006 410 1006
	$\phi 22$	M40-MC04/4-BKP40-SE	170 008 610 1002
	$\phi 22$	M40-MC04/5-BKP40-SE	170 009 610 3001



Accessories

Crimp contacts 30A/75A

signal



power



NO.	Wire gauge(mm ²)	Male	Order No.
①	0.1-0.5	M40-MC30G-0.5	101 032 210 0402
②	0.35-2.5	M40-MC30G-2.5	101 032 210 1013
③	2.5-4.0	M40-MC30G-4.0	101 032 210 1203

Remark: SPQ is 100pcs

NO.	Wire gauge(mm ²)	Male	Order No.
④	1.5-4.0	M40-MC75G-4.0	101 034 210 1201
⑤	6-10	M40-MC75G-10	101 034 210 1402

Remark: SPQ is 50pcs

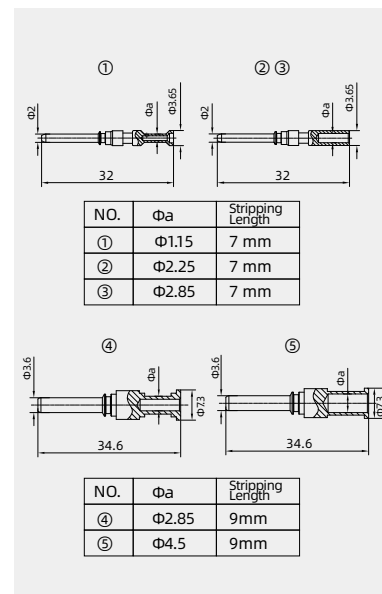
Tools

Crimping tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL28-2	198 001 001 0039
1.5-10mm ²	TL28-3	198 001 001 0040



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

Circular Connector M40

250/630V 30/65A

Technical characteristics

Specifications	
Specifications	DIN EN 60 664
	DIN EN 61 984
Approvals	
Electrical data	
Number of contacts	4/2、4/4、4/5
Electrical properties	
-Rated current	65A (power)
	30A (signal)
-Rated voltage	630V (power)
	250V (signal)
-Rated impulse voltage	6000V (power)
	4000V (signal)
-Contact resistance	$\phi 3.6$ (power): $\leq 1 \text{ m}\Omega$
	$\phi 2$ (signal): $\leq 3 \text{ m}\Omega$
Material and finish	
-Housing material	copper alloy Nickel-plated、zinc alloy Nickel-plated
-contact	copper alloygold plated
-Insulating material	PA
-Sealing element	FKM

Mechanical properties	
-Mechanical working life	≥ 500
-Lock mode	M40×1.5
Environmental performance	
-Limiting temperature	-40°C ...+130°C
-Degree of protection	IP67
-Pollution degree	3

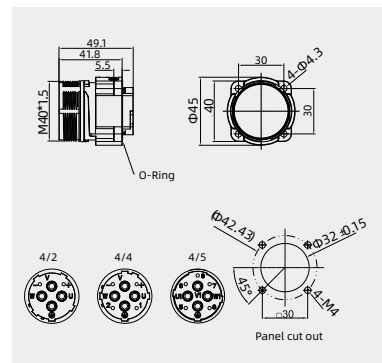
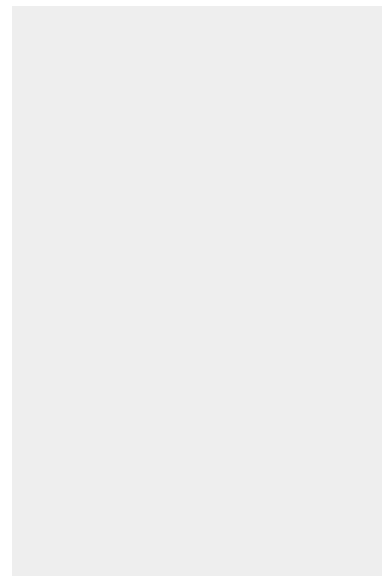
Remark: SPQ is 1pc

Crimp terminal

order crimp contacts separately
Stationary type,Elbow without rotated
function



Insert	Designation	Order No.
Male	M40-MC04/2-BK40	170 006 310 1001
	M40-MC04/4-BK40	170 008 310 3001
	M40-MC04/5-BK40	170 009 310 3001



Accessories

Crimp terminal

signal



power contact



NO.	Wire gauge(mm ²)	Male	Order No.
①	0.1-0.5	M40-MC30G-0.5	101 032 210 0402
②	0.35-2.5	M40-MC30G-2.5	101 032 210 1013
③	2.5-4.0	M40-MC30G-4.0	101 032 210 1203

Remark: SPQ is 100pcs

NO.	Wire gauge(mm ²)	Male	Order No.
④	1.5-4.0	M40-MC75G-4.0	101 034 210 1201
⑤	6-10	M40-MC75G-10	101 034 210 1402

Remark: SPQ is 50pcs

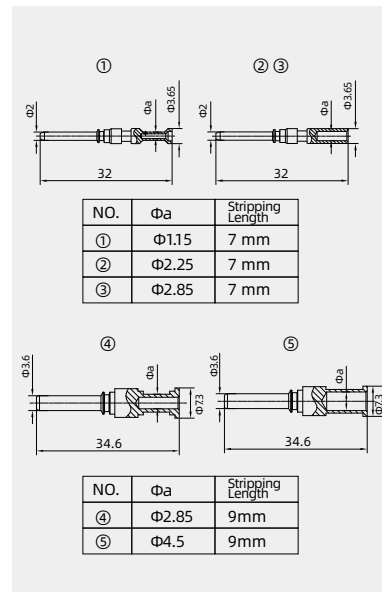
Tools

Crimping tool



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
0.14-4mm ²	TL28-2	198 001 001 0039
1.5-10mm ²	TL28-3	198 001 001 0040



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

Circular Connector M40

250/630V 20/63A

Technical characteristics

Specifications			
Specifications	DIN EN 60 664 DIN EN 61 984		
Approvals			
Electrical data		Mechanical properties	
Number of contacts	4/4	-Mechanical working life	≥ 500
Electrical properties		-Lock mode	Thread locking
-Rated current	63A (power) 20A (signal)	-Cable and outlet diameter	φ19-21.5
-Rated voltage	630V (power) 250V (signal)	Environmental performance	
-Rated impulse voltage	6000V (power) 4000V (signal)	-Limiting temperature	-40°C ...+130°C
-Contact resistance	φ3.6(power): ≤ 1 mΩ φ2 (signal): ≤ 3 mΩ	-Degree of protection	IP67
Material and finish		-Pollution degree	3
-Housing material	copper alloy Nickel-plated、 zinc alloy Nickel-plated		
-contact	copper alloygold plated		
-Insulating material	PA		
-Sealing element	FKM		

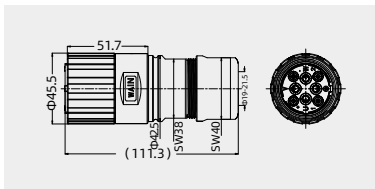
Remark: SPQ is 1pc

Crimp terminal

order crimp contacts separately



Insert	Designation	Order No.
Female	M40-FC04/4-T-D21.5-SH	170 008 420 2001

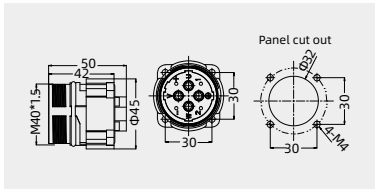


Crimp terminal

order crimp contacts separately



Insert	Designation	Order No.
Male	M40-MC04/4-BK	170 008 310 1001



Accessories

Crimp contacts

signal



NO.	Male	Order No.	Female	Order No.
①	M40-AMC30G-1.0	101 032 210 0811	M40-AFC30G-1.0	101 032 220 0811
②	M40-AMC30G-1.5	101 032 210 0911	M40-AFC30G-1.5	101 032 220 0911
③	M40-AMC30G-2.5	101 032 210 1011	M40-AFC30G-2.5	101 032 220 1011

Remark: SPO is 100pcs

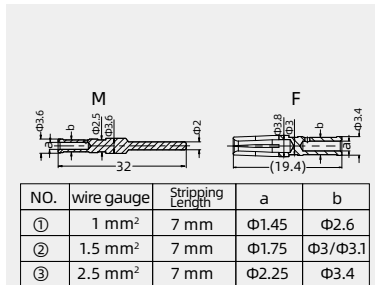
Remark: SPQ is 100pcs

power



NO.	Male	Order No.	Female	Order No.
④	M40-AMC75G-4	101 024 210 1201	M40-AFC75G-4	101 024 220 1201
⑤	M40-AMC75G-6	101 024 210 1301	M40-AFC75G-6	101 024 220 1301
⑥	M40-AMC75G-10	101 024 210 1401	M40-AFC75G-10	101 024 220 1401

Remark: SPQ is 50pcs



Tools

Crimping tool



Wire gauge	Designation	Order No.
0.14-4mm ²	TL28-2	198 001 001 0039
1.5-10mm ²	TL28-3	198 001 001 0040

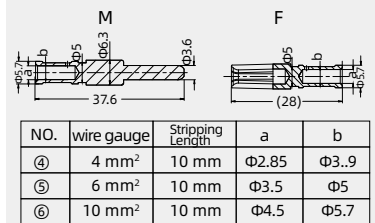
Remark: SPQ is 1pc

Contact removal tool



Application	Designation	Order No.
for crimp contacts 75A	M40-TL01	198 001 000 0027

for crimp contacts 30A	M40-TL02	198 001 000 0028
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Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

Circular Connector M40

250/630V 20/63A

Technical characteristics

Specifications			
Specifications	DIN EN 60 664		
	DIN EN 61 984		
Approvals			
Electrical data		Mechanical properties	
Number of contacts	4/4	-Mechanical working life	≥ 500
Electrical properties	-Rated current	-Lock mode	Thread locking
	63A (power)	-Cable and outlet diameter	φ19-21.5
	20A (signal)	Environmental performance	
	-Rated voltage	-Limiting temperature	-40°C ...+130°C
	630V (power)	-Degree of protection	IP67
	250V (signal)	-Pollution degree	3
	-Rated impulse voltage		
	6000V (power)		
	4000V (signal)		
	-Contact resistance		
	φ3.6(power): ≤ 1 mΩ		
	φ2 (signal): ≤ 3 mΩ		
Material and finish			
-Housing material	copper alloy Nickel-plated, zinc alloy Nickel-plated		
-contact	copper alloygold plated		
-Insulating material	PA		
-Sealing element	FKM		

Crimp terminal

order crimp contacts separately
Stationary type, Elbow without rotated function



Remark: SPQ is 1pc

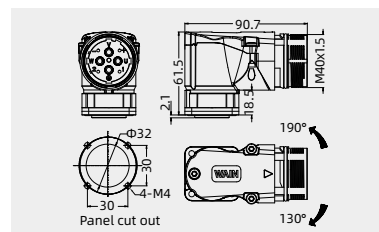
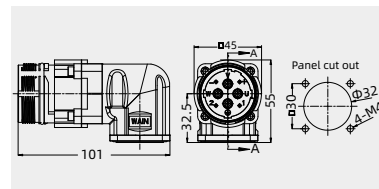
Insert	Designation	Order No.
Male	M40-MC04/4-BK-SE	170 008 610 1001

Crimp terminal

order crimp contacts separately
Rotation type
After fixing, the angle can be rotated up to 320°.



Insert	Designation	Order No.
Male	M40-MC04/4-BKP-SE	170 008 610 1011



Accessories

Crimp contacts

signal



power



NO.	Male	Order No.
①	M40-AMC30G-1.0	101 032 210 0811
②	M40-AMC30G-1.5	101 032 210 0911
③	M40-AMC30G-2.5	101 032 210 1011

Remark: SPQ is 100pcs

NO.	Male	Order No.
④	M40-AMC75G-4	101 024 210 1201
⑤	M40-AMC75G-6	101 024 210 1301
⑥	M40-AMC75G-10	101 024 210 1401

Remark: SPQ is 50pcs

Tools

Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.14-4mm ²	TL28-2	198 001 001 0039
1.5-10mm ²	TL28-3	198 001 001 0040

Remark: SPQ is 1pc

Application	Designation	Order No.
for crimp contacts 75A	M40-TL01	198 001 000 0027

for crimp contacts 30A	M40-TL02	198 001 000 0028
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NO.	wire gauge	Stripping Length	a	b
①	1 mm ²	7 mm	Φ1.45	Φ2.6
②	1.5 mm ²	7 mm	Φ1.75	Φ3/Φ3.1
③	2.5 mm ²	7 mm	Φ2.25	Φ3.4

NO.	wire gauge	Stripping Length	a	b
④	4 mm ²	10 mm	Φ2.85	Φ3.9
⑤	6 mm ²	10 mm	Φ3.5	Φ5
⑥	10 mm ²	10 mm	Φ4.5	Φ5.7

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

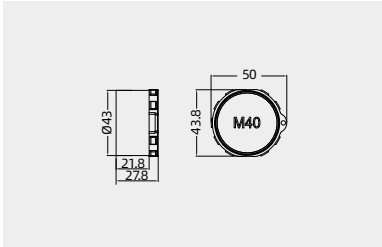
Accessories

Protection covers IP67

Remark: SPQ is 10pcs

M40 Protection cover

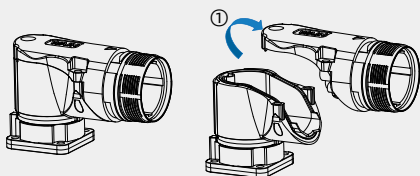
Description	Designation	Order No.
Dustproof	M40-CV-F1	170 000 001 9502
	M40-CV-F2	170 000 001 9503



Circular Connector M40

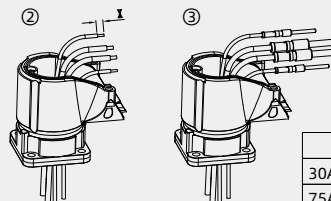
- M40-MC04/4-BKP-SE Power connector

1: Open the upper cover horizontally

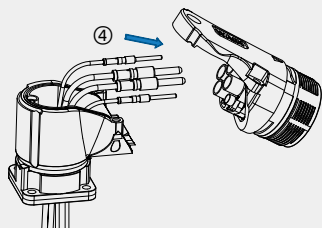


2: pin wiring

- The cable passes through the fixed base.
- Strip the wire insulation husk, and then weld pin to the wire.



3: Insert the pins to the corresponding insert holes in order.



4: Lock the upper cover, and fasten the screws. The installation is completed.

