

Circular Connector M23

630/250V 30/9A

Technical characteristics

Specifications

Specifications	DIN EN 60 664
	DIN EN 61 984

Approvals

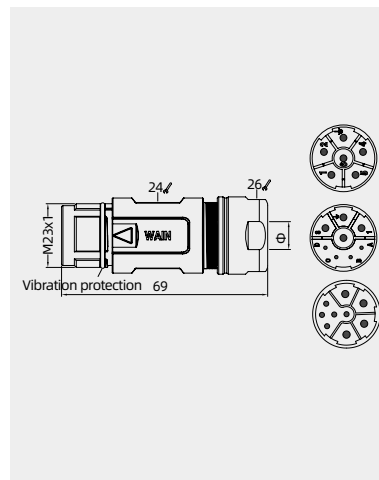
Electrical data						Mechanical data	
Number of contacts	6(5+PE)	8(4+3+PE)			9(5+3+PE)	Housing material	CuZn,Zinc(GD-Zn)
Contacts	5+PE	4	3+PE	5	3+PE	Housing surface	Nickel-plated
ContactsΦ(mm)	2	1	2	1	2	Insulating bodies	Polyamide
mm ² /AWG	0.35...4.0/22-12	0.03...1.5/32-16	0.35...4.0/22-12	0.14...1.5/26-16	0.35...4.0/22-12	Contact material	copper alloy
Rated current(25°C)	30	9	30	9	30	Contact surface	gold plated
Rated voltage	630	250	630	250	630	Terminal	Crimp version
Test voltage Urms (AC)	6kV	4kV	6kV	4kV	6kV	Gasket and O ring	Fluorine rubber
Overvoltage categorie	III		III		III	Ambient temperature	-40°C ...+130°C
Pollution degree	3		3		3	Cable outlet	4.2-17mm shielded
						Connector locking system	M23screw
						Mechanical operation	> 500
						Degree of protection	IP67

Male, Crimp terminal

order crimp contacts separately



Contacts	Cable outlet	Designation	Order No.
1	4.2-6.6mm	M23-MC01-CCT-D6.6-SH	166 001 410 2501
	7.5-12mm	M23-MC01-CCT-D12-SH	166 001 410 2502
	9.5-14.5mm	M23-MC01-CCT-D14.5-SH	166 001 410 2503
	14-17mm	M23-MC01-CCT-D17-SH	166 001 410 2500
(5+PE)	4.2-6.6mm	M23-MC06-TH-D6.6-SH	166 006 110 2007
	7.5-12mm	M23-MC06-TH-D12-SH	166 006 110 2001
	9.5-14.5mm	M23-MC06-TH-D14.5-SH	166 006 110 2002
	14-17mm	M23-MC06-TH-D17-SH	166 006 110 2003
8(4+3+PE)	4.2-6.6mm	M23-MC04/4-TH-D6.6-SH	166 008 110 2007
	7.5-12mm	M23-MC04/4-TH-D12-SH	166 008 110 2001
	9.5-14.5mm	M23-MC04/4-TH-D14.5-SH	166 008 110 2002
	14-17mm	M23-MC04/4-TH-D17-SH	166 008 110 2003
9(5+3+PE)	4.2-6.6mm	M23-MC04/5-TH-D6.6-SH	181 000 099 2502
	7.5-12mm	M23-MC04/5-TH-D12-SH	166 000 110 2500
	9.5-14.5mm	M23-MC04/5-TH-D14.5-SH	181 000 099 2503
	14-17mm	M23-MC04/5-TH-D17-SH	181 000 099 2504



Crimp contacts

Crimp contacts 9A/30A

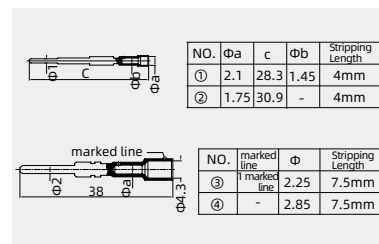
9A



30A



No.	Wire gauge(mm ²)	Male	Order No.
①	0.14-1.0	M23-MCL9G-1.0	101 031 210 0802
②	0.5-1.5	M23-MCL9G-1.5	101 031 210 0902
③	0.35-2.5	M23-MCL30G-2.5	101 031 210 1002
④	2.5-4.0	M23-MCL30G-4.0	101 031 210 1202



Tools

Crimping tool



Wire gauge	Designation	Order No.
0.14-4 mm ²	TL28-2	198 001 001 0039

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

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Technical characteristics

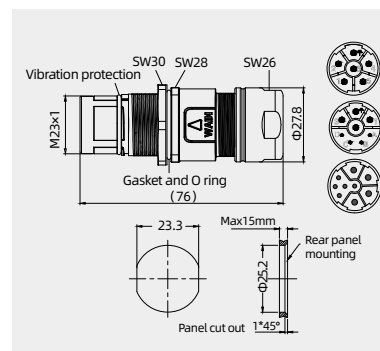
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Electrical data						Mechanical date					
Number of contacts	6(5+PE)		8(4+3+PE)		9(5+3+PE)		Housing material	CuZn,Zinc(GD-Zn)			
Contacts	5+PE		4		3+PE		5	3+PE	Housing surface	Nickel-plated	
ContactsΦ(mm)	2		1		2		1		2	Insulating bodies	Polyamide
mm²/AWG	0.35...4.0/22-12		0.03...1.5/32-16		0.35...4.0/22-12		0.14...1.5/26-16		0.35...4.0/22-12	Contact material	copper alloy
Rated current(25°C)	30		9		30		9		30	Contact surface	gold plated
Rated voltage	630		250		630		250		630	Terminal	Crimp version
Test voltage Urms (AC)	6kV		4kV		6kV		4kV		6kV	Gasket and O ring	Fluorine rubber
Overvoltage categorie	III				III				III	Ambient temperature	-40°C ...+130°C
Pollution degree	3				3				3	Cable outlet	4.2-17mm shielded
										Connector locking system	M23screw
										Mechanical operation	> 500
										Degree of protection	IP67

Male, Crimp terminal

order crimp contacts separately



Contacts	Cable outlet	Designation	Order No.
6(5+PE)	4.2-6.6mm	M23-MC06-CCT/R-D6.6-SH	166 006 110 2007
	7.5-12mm	M23-MC06-CCT/R-D12-SH	166 006 110 2001
	9.5-14.5mm	M23-MC06-CCT/R-D14.5-SH	166 006 110 2002
	14-17mm	M23-MC06-CCT/R-D17-SH	166 006 110 2003
8(4+3+PE)	4.2-6.6mm	M23-MC04/4-CCT/R-D6.6-SH	166 008 110 2007
	7.5-12mm	M23-MC04/4-CCT/R-D12-SH	166 008 110 2001
	9.5-14.5mm	M23-MC04/4-CCT/R-D14.5-SH	166 008 110 2002
	14-17mm	M23-MC04/4-CCT/R-D17-SH	166 008 110 2003
9(5+3+PE)	4.2-6.6mm	M23-MC04/5-CCT/R-D6.6-SH	181 000 099 2505
	7.5-12mm	M23-MC04/5-CCT/R-D12-SH	166 009 710 2500
	9.5-14.5mm	M23-MC04/5-CCT/R-D14.5-SH	181 000 099 2506
	14-17mm	M23-MC04/5-CCT/R-D17-SH	181 000 099 2507

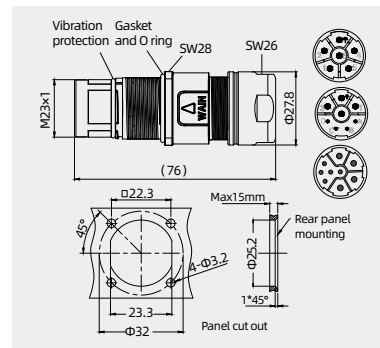


Male, Crimp terminal

order crimp contacts separately



Contacts	Cable outlet	Designation	Order No.
6(5+PE)	4.2-6.6mm	M23-MC06-CCT/R28-D6.6-SH	166 006 110 2009
	7.5-12mm	M23-MC06-CCT/R28-D12-SH	166 006 710 2007
	9.5-14.5mm	M23-MC06-CCT/R28-D14.5-SH	166 006 710 2008
	14-17mm	M23-MC06-CCT/R28-D17-SH	166 006 710 2001
8(4+3+PE)	4.2-6.6mm	M23-MC04/4-CCT/R28-D6.6-SH	166 008 110 2009
	7.5-12mm	M23-MC04/4-CCT/R28-D12-SH	166 008 710 2007
	9.5-14.5mm	M23-MC04/4-CCT/R28-D14.5-SH	166 008 710 2008
	14-17mm	M23-MC04/4-CCT/R28-D17-SH	166 008 710 2002
9(5+3+PE)	4.2-6.6mm	M23-MC04/5-CCT/R28-D6.6-SH	181 000 099 2508
	7.5-12mm	M23-MC04/5-CCT/R28-D12-SH	166 000 799 2500
	9.5-14.5mm	M23-MC04/5-CCT/R28-D14.5-SH	166 000 799 2501
	14-17mm	M23-MC04/5-CCT/R28-D17-SH	166 000 799 2502



Crimp contacts

Crimp contacts 9A/30A

9A



No.	Wire gauge(mm ²)	Male	Order No.
①	0.14-1.0	M23-MCL9G-1.0	101 031 210 0802
②	0.5-1.5	M23-MCL9G-1.5	101 031 210 0902

30A



③	0.35-2.5	M23-MCL30G-2.5	101 031 210 1002
④	2.5-4.0	M23-MCL30G-4.0	101 031 210 1202

NO.	Φa	c	Φb	Stripping Length
①	2.1	28.3	1.45	4mm
②	1.75	30.9	-	4mm

NO.	marked line	Φ	Stripping Length
③	marked line	2.25	7.5mm
④	-	2.85	7.5mm

Tools

Crimping tool



Wire gauge	Designation	Order No.
0.14-4 mm ²	TL28-2	198 001 001 0039

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