



MC Series

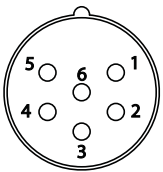
M16..... 2-3

M23..... 4-11

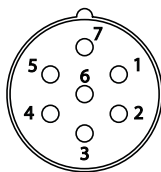
M27..... 12-13

Tools 14

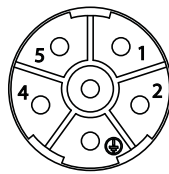
MCV Series



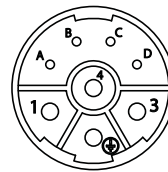
6 Pole



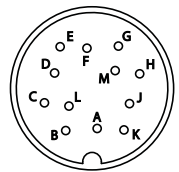
7 Pole



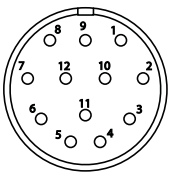
6 Pole



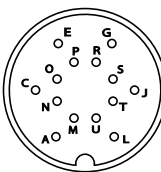
7 Pole



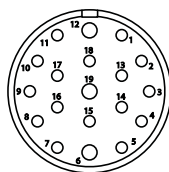
12 Pole



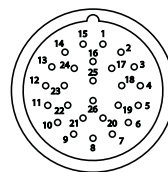
12 Pole



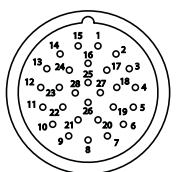
14 Pole



19 Pole



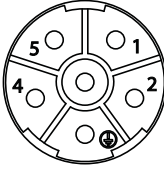
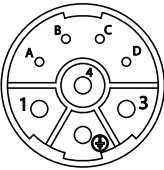
26 Pole



28 Pole

MCVH Series M23 Field Wireable Plugs

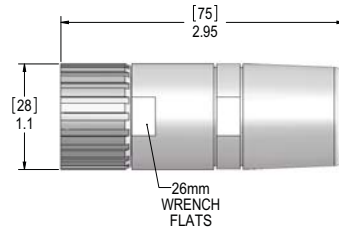
6 Pole 30A, 600V ❖ 8 Pole 30A, 600V ❖ Contacts

Face View of Male	# of Poles	Wire AWG Rating	Female Plugs	Male Plugs (Male Threads)
	6	30A 600V	MCVH-6FP--FW-CC	MCVH-6MPPM--FW-CC
	8	30A 600V	MCVH-8FP-FW-CC	MCVH-8MPPM-FW-CC

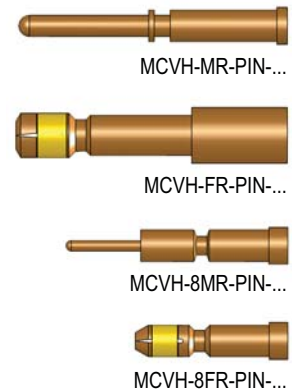
Connection is via crimp pins. Voltage and amperage ratings are cable dependent and are based on 600V 12 AWG cable. Cables with lower voltage ratings and smaller conductors will lower these ratings.

Specifications:

Body:	Nickel Plated Brass
Contacts:	Copper Alloy with Gold Plating
O-Ring:	FPM
Coupling Nut:	Nickel Plated Brass
Insert:	Polyamide
Temperature:	-40°C to +105°C (-40°F to +221°F)
Protection:	IP 67

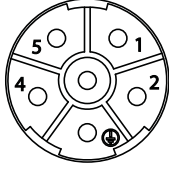
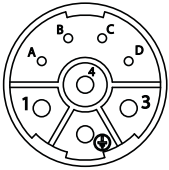


Crimp Pins			
# of Poles	Wire AWG Rating	Male Contacts	Female Contacts
6 & 8* <small>*Pins 1 - 4 for the 8 Pole</small>	12 AWG 14 - 16 AWG 18 - 20 AWG 22 - 24 AWG	MCVH-MR-PIN-12 MCVH-MR-PIN-16 MCVH-MR-PIN-20 MCVH-MR-PIN-24	MCVH-FR-PIN-12 MCVH-FR-PIN-16 MCVH-FR-PIN-20 MCVH-FR-PIN-24
8 <small>Pins A - D</small>	18 - 22 AWG 24 - 26 AWG	MCVH-8MR-PIN-18 MCVH-8MR-PIN-24	MCVH-8FR-PIN-18 MCVH-8FR-PIN-24
Tools			
# of Poles	Description	Part Number	
6 & 8	Crimp Tool	CCPZ-MIL	
6 & 8	Crimp Tool Locator	MCTP-VH6-8	



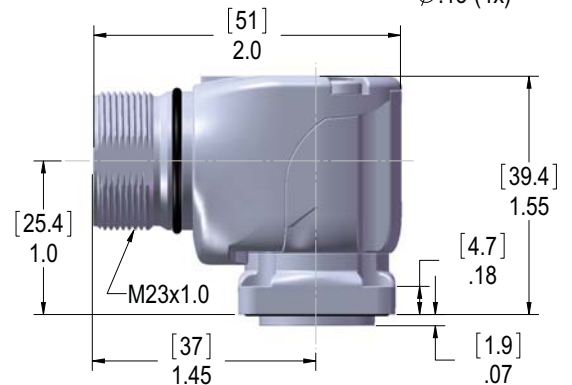
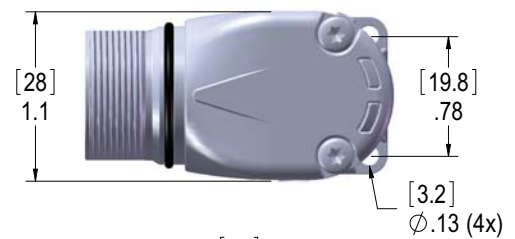
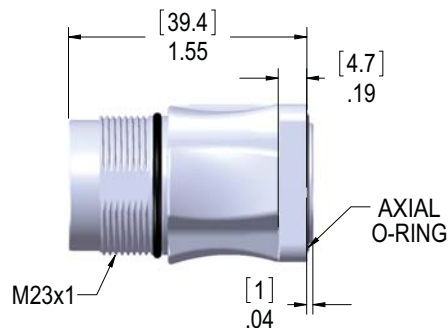
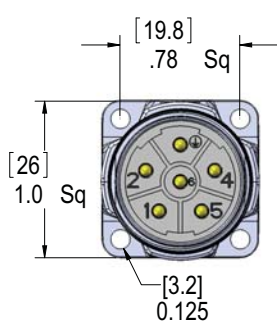
MCVH Series M23 Receptacles

Male & Female Receptacles ❖ Panel Mount ❖ Crimp Pins

M23 Male Receptacles with Crimp Pins			
Face View of Male	# of Poles	Panel Mount Male Receptacles	Panel Mount RT Male Receptacles
	6	MCVH-6MR-PM-CC	MCVH-6MR-PM-RT-CC
	8	MCVH-8MR-PM-CC	MCVH-8MR-PM-RT-CC

Specifications:

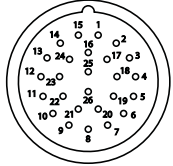
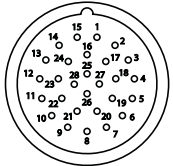
Body: PM-CC: Nickel Plated Brass
 RT-CC: Nickel Plated Zinc
 Insulator: Polyamide
 Contacts: Copper Alloy with Gold Plating
 O-Ring: FPM
 Temperature: -40°C to 105°C (-40°F to +221°F)
 Protection: IP 67



MCV Series

MCV Series M27 Field Wireable Plugs

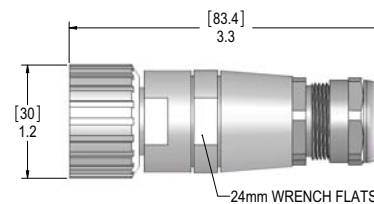
26 Pole ❖ 28 Pole

Face View of Male	# of Poles	Wire AWG Rating	Female Plugs	Male to Male Extension
	26	1.5A 150V	MCX-26FP-FW-SC	MCX-26MPM-FW-SC
	28	1.5A 150V	MCX-28FP-FW-SC	MCX-28MPM-FW-SC

Connection is via solder cup terminal. Voltage and amperage ratings are cable dependent and are based on 150V 18 AWG wire. Wires with lower voltage ratings and smaller conductors will lower these ratings.

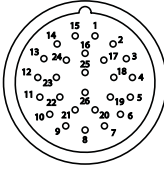
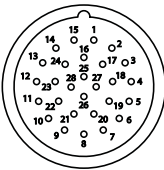
Specifications:

Body:	Nickel Plated Brass
Contacts:	Copper Alloy with Gold Plating
O-Ring:	FPM
Coupling Nut:	Nickel Plated Brass
Insert:	Polyamide
Temperature:	-40°C to +105°C (-40°F to +221°F)
Protection:	IP 67



MCV Series M27 Receptacles

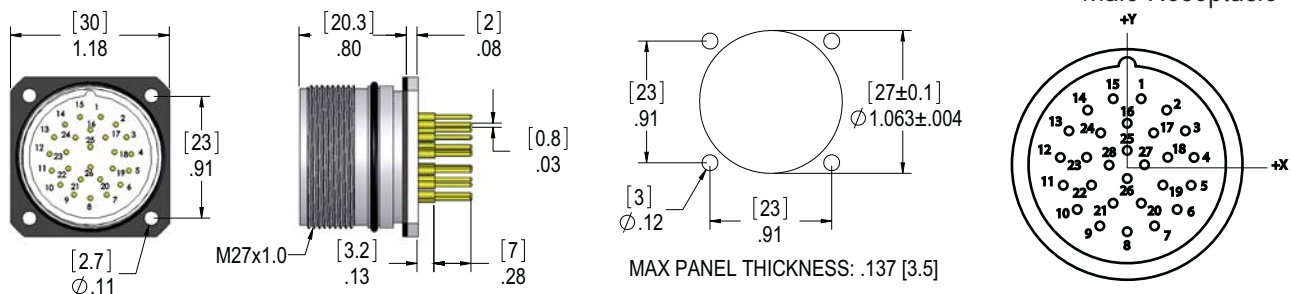
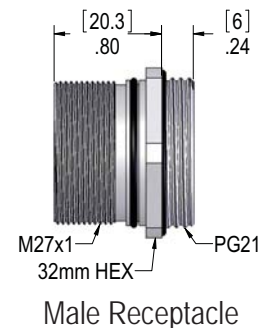
26 Pole ❖ 28 Pole ❖ PG 21

Face View of Male	# of Poles	Thread Size	Male Contacts	Male PCB Mount Contact
	26	PG 21	MCX-26MR-PG21-SC	MCX-26MR-BM-PCB
	28	PG 21	MCX-28MR-PG21-SC	MCX-28MR-BM-PCB

Connection is via solder cup terminal. Voltage and amperage ratings are cable dependent and are based on 150V 18 AWG wire. Wires with lower voltage ratings and smaller conductors will lower these ratings.

Specifications:

- Body: Nickel Plated Brass
- Contacts: Copper Alloy with Gold Plating
- O-Ring: FPM
- Coupling Nut: Nickel Plated Brass
- Insert: Polyamide
- Temperature: -40°C to +105°C (-40°F to +221°F)
- Protection: IP 67



PCB Layout					
Pin #	X	Y	Pin #	X	Y
1	1.95	7.47	15	-1.95	7.47
2	4.8	6.05	16	0	5.03
3	6.82	3.65	17	2.82	3.6
4	7.7	0.6	18	4.55	0.97
5	7.28	-2.53	19	4.2	-2.13
6	5.67	-5.2	20	1.83	-4.17
7	3.08	-7.08	21	-1.83	-4.17
8	0	-7.73	22	-4.2	-2.13
9	-3.08	-7.08	23	-4.55	0.97
10	-5.67	-5.2	24	-2.82	3.6
11	-7.28	-2.53	25	0	1.88
12	-7.7	0.6	26	0	-1.6
13	-6.82	3.65			
14	-4.8	6.05	27	2.02	0.14
			28	-2.02	0.14

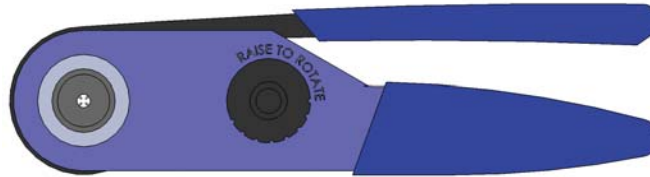
MCV Series

MCV Series Tools

Crimping Tool ❖ Locator ❖ Gage

Crimping Tool

The CCPZ-MIL crimping tool conforms to the international standard MIL-C-22520/1. The crimping is performed with 8 pressure points. The tool is equipped with a ratcheting mechanism to insure a complete crimping cycle is performed every time. This tool must be equipped with one of the interchangeable locators according to the series of contacts that are to be crimped. The selector dial on the side of the tool allows the tool to adjust the crimp depth according the contact and wire size being crimped.



Locator

The locator is designed to be used with several different contacts within a contact series. The label on the side of the locator will indicate the proper settings for the locator and the crimp tool relative to the contact being crimped.



Gage

The indenting "teeth" on the crimp tool are subject to wear, so it is important to check the calibration of the tool at regular intervals. The CCPNP gage is a Go – No Go gage that is used to make sure the tool is crimping properly.



To use the CCPNP, put the CCPZ-MIL selector dial to position 4.

Put the crimping tool in a completely closed position

"GO" – Insert the "GO" (green) end of the CCPNP into the crimp area. The gage must pass freely between the indenter "teeth".

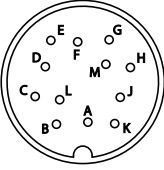
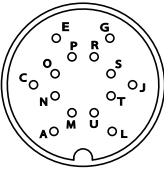
"NO-GO" - – Insert the "NO-GO" (red) end of the CCPNP into the crimp area. The gage must not pass between the indenter "teeth".

If the NO-GO end of the gage passes through the indenter "teeth", the indenters are worn and need to be replaced. Please consult the factory to get the tool repaired.

Mencom understands that many customers have a one-time requirement for the MC series of products and prefer not to purchase tooling to perform the crimping. To help these customers, Mencom has a month to month tool lease program. Please consult the factory for information about this program.

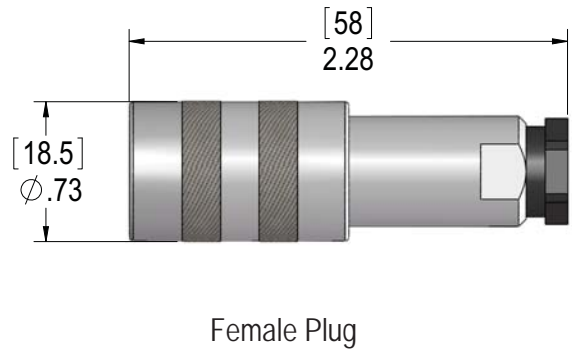
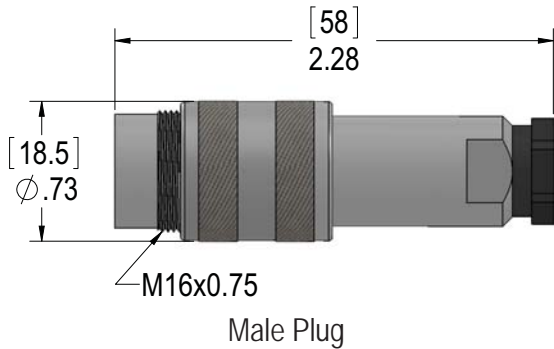
MCL Series M16 Field Wireable Plugs

24 - 28 AWG 60V ❖ PG 7 & PG 9

Face View of Male	# of Poles	Wire AWG Rating	PG Size	Cable O.D.	Male Plug	Female Plug
	12	24 - 28 AWG 60V 3A	PG 7 PG 9	4 - 6 mm 6 - 8 mm	MCL-12MP-FW07 MCL-12MP-FW09	MCL-12FP-FW07 MCL-12FP-FW09
	14	24 - 28 AWG 60V 3A	PG 7 PG 9	4 - 6 mm 6 - 8 mm	MCL-14MP-FW07 MCL-14MP-FW09	MCL-14FP-FW07 MCL-14FP-FW09

Specifications:

- Body: Nickel Plated Brass
- Contacts: Copper Alloy with Gold Plating
- Insert: PBT
- Termination: Solder Cup 24 - 28 AWG
- Temperature: -30°C to +95°C (-22°F to +203°F)
- Protection: IP 67



MCL Series

MCL Series M16 Receptacles

Solder Cup ❖ Back Mount Solder Cup

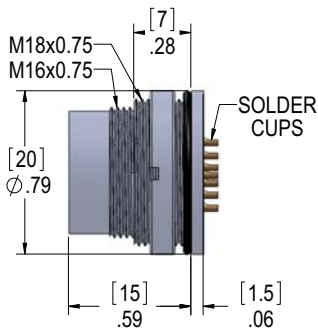
Solder Cup: Front Mount Version				
Face View of Male	# of Poles	Wire AWG Rating	Male Receptacles	Female Receptacles
	12	24 - 28 AWG 60V 3A	MCL-12MR-M18-SC MCL-12MR-M18-SC	MCL-12FR-M18-SC MCL-12FR-M18-SC
	14	24 - 28 AWG 60V 3A	MCL-14MR-M18-SC MCL-14MR-M18-SC	MCL-14FR-M18-SC MCL-14FR-M18-SC

Solder Cup: Back Mount Version				
Face View of Male	# of Poles	Wire AWG Rating	Male Receptacles	Female Receptacles
	12	24 - 28 AWG 60V 3A	MCL-12MR-M18-BM-SC MCL-12MR-M18-BM-SC	MCL-12FR-M18-BM-SC MCL-12FR-M18-BM-SC
	14	24 - 28 AWG 60V 3A	MCL-14MR-M18-BM-SC MCL-14MR-M18-BM-SC	MCL-14FR-M18-BM-SC MCL-14FR-M18-BM-SC

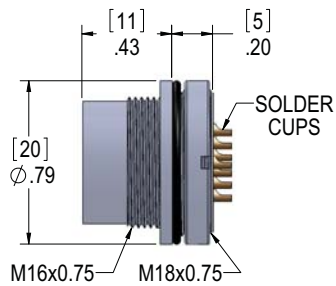
Specifications:

Shell: Nickel Plated Zinc Diecast
 Contacts: Copper Alloy with Gold Plating
 Lock Nut: Nickel Plated Brass
 O-Ring: NBR

Insert: PBT
 Temperature: -30°C to +85°C (-22°F to +185°F)
 Protection: IP 67

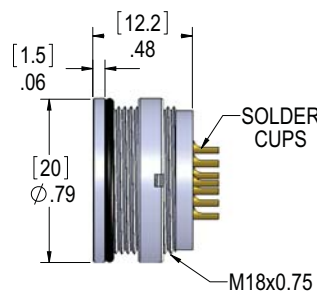


Front Mount

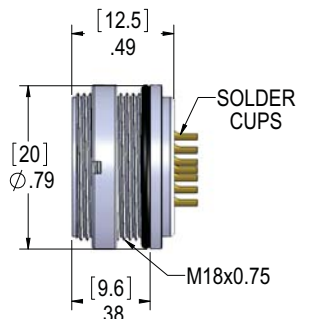


Back Mount

Male Receptacles



Front Mount

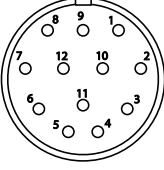
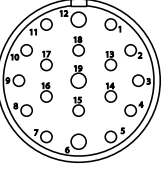


Back Mount

Female Receptacles

MCV Series M23 Cordsets

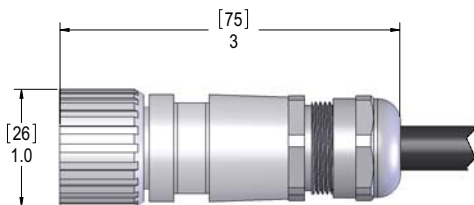
Male Cables with Female Couplings ❖ Male Cables with Male Couplings

Face View of Male	# of Poles	Color Code	Wire AWG Rating	Length	Male Cables (Female Couplings)	Male Cables (Male Couplings)
	12	1-Brown 2-Not Used 3-Blue 4-White 5-Green 6-Yellow 7-Gray 8-Pink 9-Red 10-Black 11-Violet 12-Green/Yellow	18/3 300V 8A & 22/8 300V 4A	2 M 5 M 10 M 20 M	MCV-12MP-2M MCV-12MP-5M MCV-12MP-10M MCV-12MP-20M	MCV-12MPM-2M MCV-12MPM-5M MCV-12MPM-10M MCV-12MPM-20M
	19	1-Violet 2-Red 3-Gray 4-Red w/ Blue 5-Green 6-Blue 7-Gray/Pink 8-White w/ Green 9-White w/ Yellow 10-White w/ Gray 11-Black 12-Green/Yellow 13-Yellow w/ Brown 14-Brown w/ Green 15-White 16-Yellow 17-Pink 18-Gray w/ Brown 19-Brown	18/3 300V 8A & 22/16 300V 4A	2 M 5 M 10 M 20 M	MCV-19MP-2M MCV-19MP-5M MCV-19MP-10M MCV-19MP-20M	MCV-19MPM-2M MCV-19MPM-5M MCV-19MPM-10M MCV-19MPM-20M

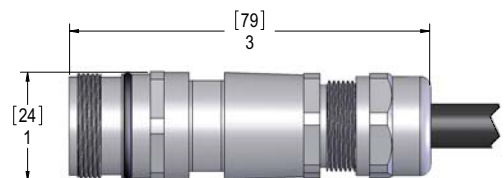
Brown, Blue and Green/Yellow are 18AWG wires.

Specifications:

Body: Nickel Plated Brass
 Contacts: Copper Alloy with Gold Plating
 Cable: Oil Resistant Black PUR Jacket,
 Rated at 300V, 80°C, Non-Wicking,
 Non-Hygroscopic, AWM Style 20233
 Conductors: 18 AWG, PVC Insulated
 22 AWG, PVC Insulated
 Temperature: -40°C to +80°C (-40°F to +176°F)
 Protection: IP 67



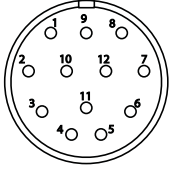
Male Plugs with Female Threads



Male Plugs with Male Threads

MCV Series M23 Cordsets

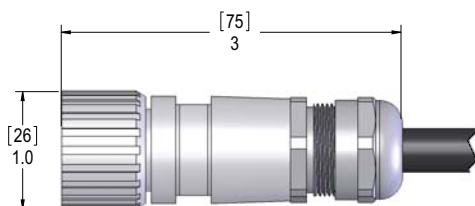
Female Cables ❖ Male - Female Extensions

Face View of Female	# of Poles	Color Code	Wire AWG Rating	Length	Female Cables	Extension Cables
	12	1-Brown 2-Not Used 3-Blue 4-White 5-Green 6-Yellow 7-Gray 8-Pink 9-Red 10-Black 11-Violet 12-Green/Yellow	18/3 300V 8A & 22/8 300V 4A	2 M 5 M 10 M 20 M	MCV-12FP-2M MCV-12FP-5M MCV-12FP-10M MCV-12FP-20M	MCV-12MFP-2M MCV-12MFP-5M MCV-12MFP-10M MCV-12MFP-20M
	19	1-Violet 2-Red 3-Gray 4-Red w/ Blue 5-Green 6-Blue 7-Gray/Pink 8-White w/ Green 9-White w/ Yellow 10-White w/ Gray 11-Black 12-Green/Yellow 13-Yellow w/ Brown 14-Brown w/ Green 15-White 16-Yellow 17-Pink 18-Gray w/ Brown 19-Brown	18/3 300V 8A & 22/16 300V 4A	2 M 5 M 10 M 20 M	MCV-19FP-2M MCV-19FP-5M MCV-19FP-10M MCV-19FP-20M	MCV-19MFP-2M MCV-19MFP-5M MCV-19MFP-10M MCV-19MFP-20M

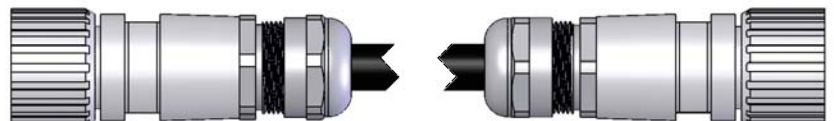
Brown, Blue and Green/Yellow are 18AWG wires. For right angle cordsets, please consult the factory.

Specifications:

Body: Nickel Plated Brass
 Contacts: Copper Alloy with Gold Plating
 Cable: Oil Resistant Black PUR Jacket,
 Rated at 300V, 80°C, Non-Wicking,
 Non-Hygroscopic, AWM Style 20233
 Conductors: 18 AWG, PVC Insulated
 22 AWG, PVC Insulated
 Temperature: -40°C to +80°C (-40°F to +176°F)
 Protection: IP 67



Female Plug



Male - Female Extension Cable

MCV Series M23 Field Wireable Plugs

Solder Cup ❖ Crimp Pins

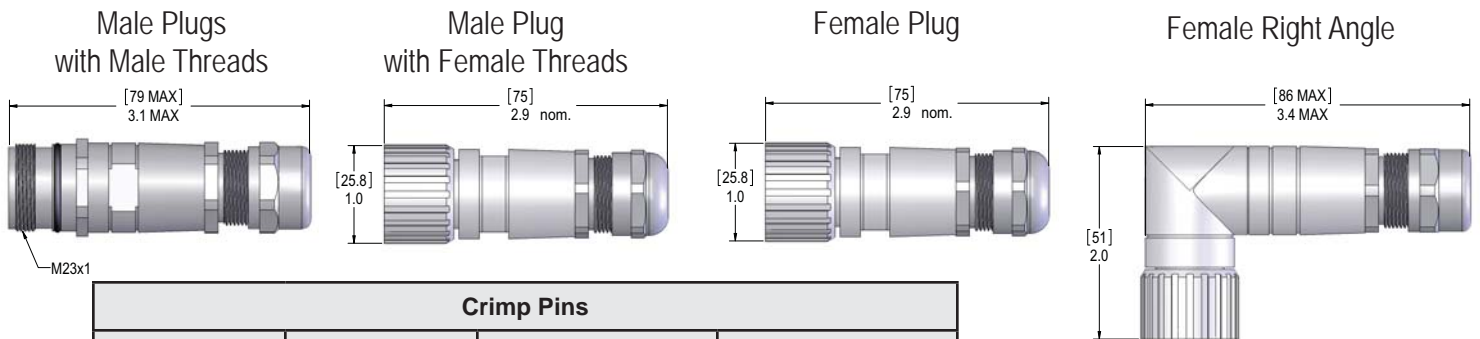
Face View of Male	# of Poles	Wire AWG Rating	Cable O.D.	Contact Type	Male Plug (Female Threads)	Male Plug (Male Threads)	Female Plug	Female Right Angle
	12	16 - 26 300V 8A MAX	6 - 9 mm	Solder Cup	MCV-12MP-FW	MCV-12MPM-FW	MCV-12FP-FW	MCV-12FP-FW-R
				Crimp Pin	MCV-12MP-FW-CC	MCV-12MPM-FW-CC	MCV-12FP-FW-CC	MCV-12FP-FW-R-CC
	19	16 - 26 300V 8A MAX	6 - 9 mm	Solder Cup	MCV-19MP-FW	MCV-19MPM-FW	MCV-19FP-FW	MCV-19FP-FW-R
				Crimp Pin	MCV-19MP-FW-CC	MCV-19MPM-FW-CC	MCV-19FP-FW-CC	MCV-19FP-FW-R-CC

Connection via solder cup terminal or crimp pin. Voltage and amperage ratings are cable dependent and are based on 600V 18 AWG cable. Cables with lower voltage ratings and smaller conductors will lower these ratings.

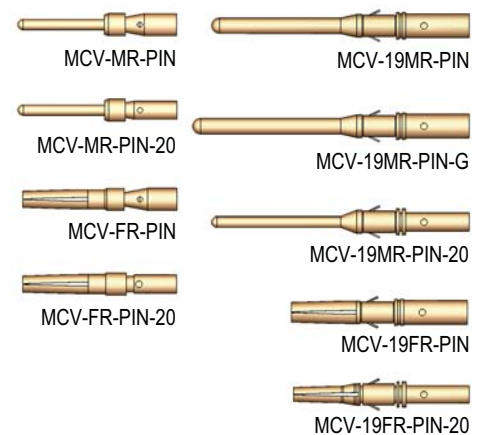
Specifications:

Body: Nickel Plated Brass
 Contacts: Copper Alloy with Gold Plating
 O-Ring: BUNA-N

Insert: PBT
 Temperature: -40°C to +105°C (-40°F to +221°F)
 Protection: IP 67 MAX



Crimp Pins			
# of Poles	Wire AWG	Male Contacts	Female Contacts
12	18 AWG	MCV-MR-PIN	MCV-FR-PIN
	20 - 24 AWG	MCV-MR-PIN-20	MCV-FR-PIN-20
19	18 AWG	MCV-19MR-PIN	MCV-19FR-PIN
	20 - 24 AWG	MCV-19MR-PIN-20	MCV-19FR-PIN-20
	18 AWG Male Ground Pin	MCV-19MR-PIN-G	
Tools			
# of Poles	Description	Part Number	
12	Removal Tool	MCV12ES	
19	Removal Tool	MCV19ES	
12 & 19	Crimp Tool	CCPZ-MIL	
12	Crimp Tool Locator	MCTP-V12	
19	Crimp Tool Locator	MCTP-V19	

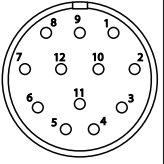
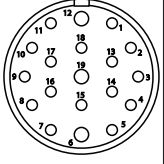


F-6

MCV Series

MCV Series M23 Receptacles

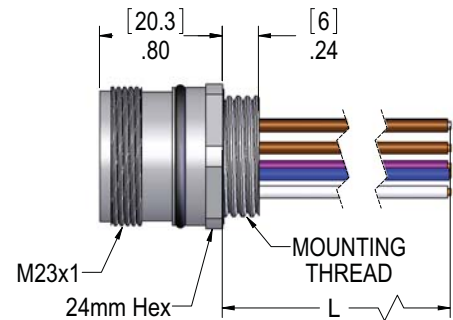
Male & Female Receptacles

M23 Male and Female Pre-Wired Receptacles								
Face View of Male	# of Poles	Color Code		Wire AWG Rating	Length	Mounting Thread	Male Receptacles	Female Receptacles
	12	1-Brown	7-Gray	18/3 300V/8A	0.3 M	PG 13.5	MCV-12MR-0.3M-PG13.5	MCV-12FR-0.3M-PG13.5
2-Not Used		8-Pink	1 M		PG 13.5	MCV-12MR-1M-PG13.5	MCV-12FR-1M-PG13.5	
3-Blue		9-Red	2 M		PG 13.5	MCV-12MR-2M-PG13.5	MCV-12FR-2M-PG13.5	
4-White		10-Black	22/8 300V/4A	0.3 M	M20	MCV-12MR-0.3M-M20	MCV-12FR-0.3M-M20	
5-Green		11-Violet		1 M	M20	MCV-12MR-1M-M20	MCV-12FR-1M-M20	
6-Yellow		12-Green/Yellow		2 M	M20	MCV-12MR-2M-M20	MCV-12FR-2M-M20	
	19	1-Violet	11-Black	18/3 300V/8A	0.3 M	PG 13.5	MCV-19MR-0.3M-PG13.5	MCV-19FR-0.3M-PG13.5
2-Red		12-Green/Yellow	1 M		PG 13.5	MCV-19MR-1M-PG13.5	MCV-19FR-1M-PG13.5	
3-Gray		13-Yellow w/ Brown	2 M		PG 13.5	MCV-19MR-2M-PG13.5	MCV-19FR-2M-PG13.5	
4-Red w/ Blue		14-Brown w/ Green	&	0.3 M	M20	MCV-19MR-0.3M-M20	MCV-19FR-0.3M-M20	
5-Green		15-White		1 M	M20	MCV-19MR-1M-M20	MCV-19FR-1M-M20	
6-Blue		16-Yellow		2 M	M20	MCV-19MR-2M-M20	MCV-19FR-2M-M20	
7-Gray/Pink	17-Pink	22/16 300V/4A	0.3 M	M20	MCV-19MR-0.3M-M20	MCV-19FR-0.3M-M20		
8-White w/ Green	18-Gray w/ Brown		1 M	M20	MCV-19MR-1M-M20	MCV-19FR-1M-M20		
9-White w/ Yellow	19-Brown		2 M	M20	MCV-19MR-2M-M20	MCV-19FR-2M-M20		
10-White w/ Gray								

Brown, Blue and Green/Yellow are 18AWG wires.

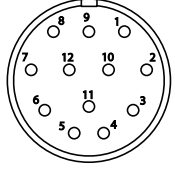
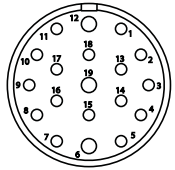
Specifications:

Shell:	Nickel Plated Brass
Insulator:	PBT
Contacts:	Copper Alloy with Gold Plating
O-Ring:	BUNA-A
Lock Nut:	Nickel Plated Brass
Temperature:	-40°C to 105°C (-40°F to +221°F)
Protection:	IP 67



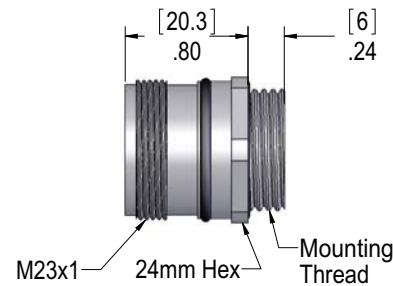
MCV Series M23 Receptacles

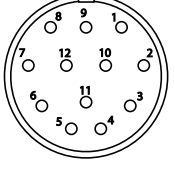
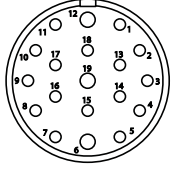
Male & Female Receptacles ❖ Solder Cups ❖ Crimp Pins

M23 Male and Female Receptacles with Solder Cups				
Face View of Male	# of Poles	Mounting Thread	Male Receptacles	Female Receptacles
	12	PG 13.5	MCV-12MR-PG13.5-SC	MCV-12FR-PG13.5-SC
		M20	MCV-12MR-M20-SC	MCV-12FR-M20-SC
	19	PG 13.5	MCV-19MR-PG13.5-SC	MCV-19FR-PG13.5-SC
		M20	MCV-19MR-M20-SC	MCV-19FR-M20-SC

Specifications:

Shell: Nickel Plated Brass
 Insulator: 105°C, Oil Resistant Yellow PVC
 Contacts: Copper Alloy with Gold Plating
 O-Ring: BUNA-A
 Lock Nut: Nickel Plated Brass
 Temperature: -40°C to 105°C (-40°F to +221°F)
 Protection: IP 67

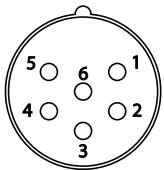
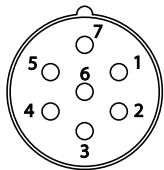


M23 Male and Female Receptacles with Crimp Pins				
Face View of Male	# of Poles	Mounting Thread	Male Receptacles	Female Receptacles
	12	PG 13.5	MCV-12MR-PG13.5-CC	MCV-12FR-PG13.5-CC
		M20	MCV-12MR-M20-CC	MCV-12FR-M20-CC
	19	PG 13.5	MCV-19MR-PG13.5-CC	MCV-19FR-PG13.5-CC
		M20	MCV-19MR-M20-CC	MCV-19FR-M20-CC

Crimp pins sold separately. See page F-6 for part numbers.

MCV Series M23 Field Wireables & Receptacles

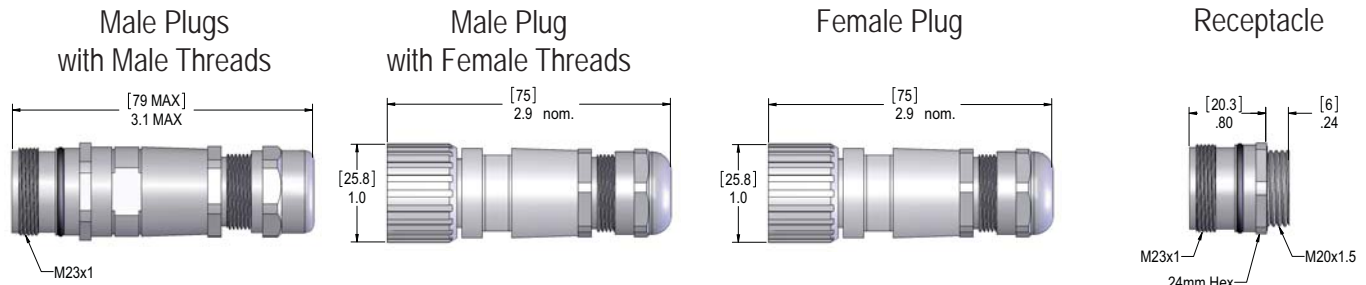
6 & 7 Pole Field Wireables & Receptacles ❖ Contacts

Face View of Male	# of Poles	Male Plug (Male Threads)	Male Plug (Female Threads)	Female Plug	Male Receptacle	Female Receptacle
	6	MCV-6MPM-FW-CC	MCV-6MP-FW-CC	MCV-6FP-FW-CC	MCV-6MR-M20-CC	MCV-6FR-M20-CC
	7	MCV-7MPM-FW-CC	MCV-7MP-FW-CC	MCV-7FP-FW-CC	MCV-7MR-M20-CC	MCV-7FR-M20-CC

Connection is via crimp pins. Voltage and amperage ratings are based on 300V 14 AWG wire and cable. Cables with lower voltage ratings and smaller conductors will lower these ratings.

Specifications:

- Body: Nickel Plated Brass
- Contacts: Copper Alloy with Gold Plating
- O-Ring: BUNA-N
- Insert: PBT
- Amperage: 20A MAX
- Voltage: 300V MAX
- Temperature: -40°C to +105°C (-40°F to +221°F)
- Protection: IP 67 MAX



Crimp Pins			
# of Poles	Wire AWG	Male Contacts	Female Contacts
6 & 7	14 - 16 AWG	MCV-6MR-PIN-14	MCV-6FR-PIN-14
	18 - 20 AWG	MCV-6MR-PIN-18	MCV-6FR-PIN-18
	14 - 16 AWG Male Ground Pin	MCV-6MR-PIN-14-G	
Tools			
# of Poles	Description	Part Number	
6 & 7	Removal Tool	MCV6ES	
6 & 7	Crimp Tool	CCPZ-MIL	
6 & 7	Crimp Tool Locator	MCTP-V6	

