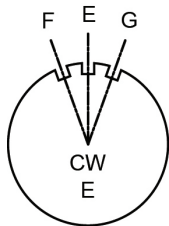


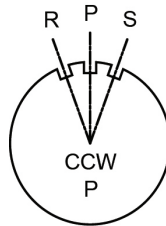
# Connector Solutions M23 Standard Series

## STEP 1 Choose Plug

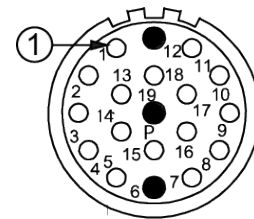


Standard connector parts mate "E"  
Plugs with "P" Receptacles, Mating  
parts use opposite contact types.  
*example: plug with pin contacts  
mates with a receptacle using socket  
contacts.*  
Other key code options available  
not listed here. Please call customer  
service for assistance when ordering  
F,G,R,S. See page 16 for connector  
configurations

## STEP 2 Choose Receptacle



## STEP 3 Choose Backshell/Cord Grip



### Plugs



### Receptacles



### Cord Grips



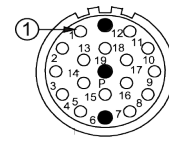
more about  
FlexGrip™  
on page 282

**BULK CABLE  
starts on  
page 23**

SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 206

\*Elite Series receptacles are offered here as additional options for mating with Standard Series plugs. See Assembly Instructions starting on page 266



**19 POSITIONS**  
**7A / 63V**  
**P type**

**Style: P type Plug**    **Number of Contacts: 19**    **Contact Size: 1.0mm**  
 Sealing: IP66/67    AWG: 22-18 (0.37 - 0.75 to 1.0 mm<sup>2</sup>)



### Checkmate™ Connector Part Numbers

Part Number	Connector Type <i>Checkmate™ parts will mate with threaded parts. Just remove the O-ring from the threaded part.</i>	Style	Contact Type male = pin mates with female = socket ↓Mating Parts↓		Figure Drawings
			Pin	Socket	
MA2CAP1900	Plug, straight, <b>Checkmate™</b>	P	Pin	Socket	1
MA2LAE1900	Receptacle, straight, flange mount, <b>Checkmate™</b>	E	Socket	Pin	2
MA2JAE1900	Receptacle extension, straight <b>Checkmate™</b>	P	Socket	Pin	3
MA5RAE1901*	Receptacle, 90° rotatable, Checkmate™ Standard Flange (25.7x25.7)	E	Socket	Pin	4
MA5RAE1902*	Receptacle, 90° rotatable, Checkmate™ Large Flange (28.0x28.0)	E	Socket	Pin	5
↑ Contacts supplied separately see Chart 1 page 206					

CONNECTOR SOLUTIONS

### Threaded Connector Part Numbers

Part Number	Connector Type <i>Checkmate™ parts will mate with threaded parts. Just remove the O-ring from the threaded part.</i>	Style	Contact Type male = pin mates with female = socket ↓Mating Parts↓		Figure Drawings
			Pin	Socket	
MA1CAP1900	Plug, straight, threaded	P	Pin	Socket	6
MA1EAP1900	Plug, 90° rotatable, threaded	P	Pin	Socket	7
MA1LAE1900	Receptacle, straight, flange mount, threaded	E	Socket	Pin	8
MA3TNE1900-S1	Receptacle, bulkhead, threaded, 4.5-7.5mm	E	Socket	Pin	9
MA3TNE1900-S2	Receptacle, bulkhead, threaded, 7.5-11.0mm	E	Socket	Pin	10
MA3TNE1900-S3	Receptacle, bulkhead, threaded, 11.0-15.0mm	E	Socket	Pin	11
MA1JAE1900	Receptacle extension, straight, threaded	P	Socket	Pin	9
MA7RAE1901*	Receptacle, 90° rotatable, Threaded Standard Flange (25.7x25.7)	E	Socket	Pin	10
MA7RAE1902*	Receptacle, 90° rotatable, Threaded Large Flange (28.0x28.0)	E	Socket	Pin	11
↑ Contacts supplied separately see Chart 1 page 206					

**Style: P type Plug**    **Number of Contacts: 19**    **Contact Size: 1.0mm**  
 Sealing: IP66/67    AWG: 22-18 (0.37 - 0.75 to 1.0 mm<sup>2</sup>)

### Cord Grips and Backshells

Part Number	Type	Cable Range (mm)	Figure Drawings
MA6CG-S1	Cord Grip	4.5-7.5mm	12
MA6CG-S2	Cord Grip	7.5-11.0mm	12
MA6CG-S3	Cord Grip	11.0-15.0mm	12
MA4FSR-A8.5*	Flex Grip™ backshell	7.5-8.5mm	13
MA4FSR-A10.5*	Flex Grip™ backshell	9.5-10.5mm	13
MA4FSR-A12.8*	Flex Grip™ backshell	11.5-12.8mm	13

\*Must be potted to achieve IP67 ratings.

### Contacts

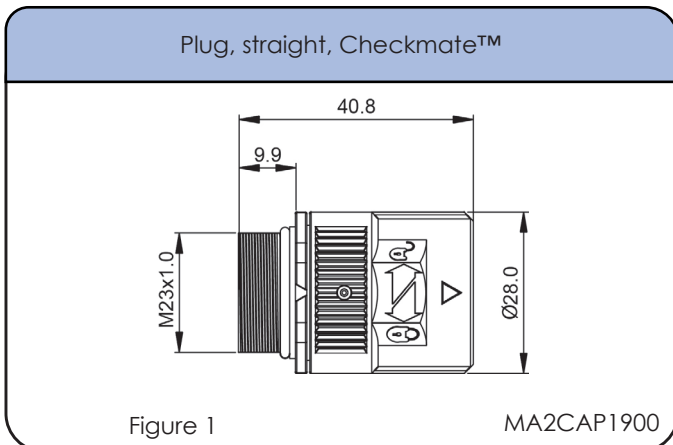


#### CHART 1

#### Crimp Contacts, Machined

Part Number	Pin/Socket	Size	AWG	mm <sup>2</sup>	Plating
SC000337	Pin	1.5	22-18	0.37 - 0.75 to 1.0	Gold
SC000338	Pin	1.0	22-18	0.37 - 0.75 to 1.0	Gold
SC000325	Socket	1.5	22-18	0.37 - 0.75 to 1.0	Gold
SC000326	Socket	1.0	22-18	0.37 - 0.75 to 1.0	Gold

### Dimensions Checkmate™ Plugs



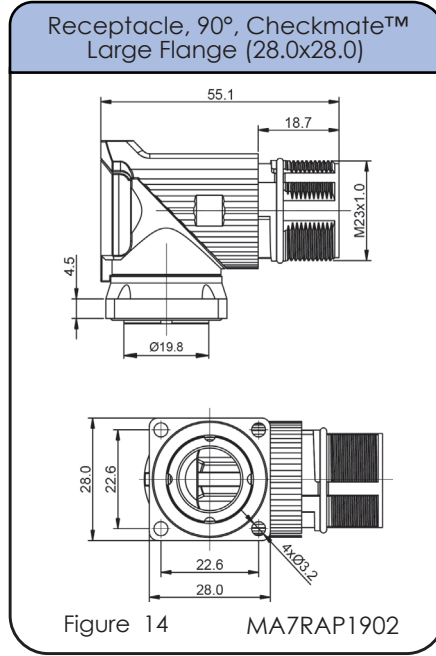
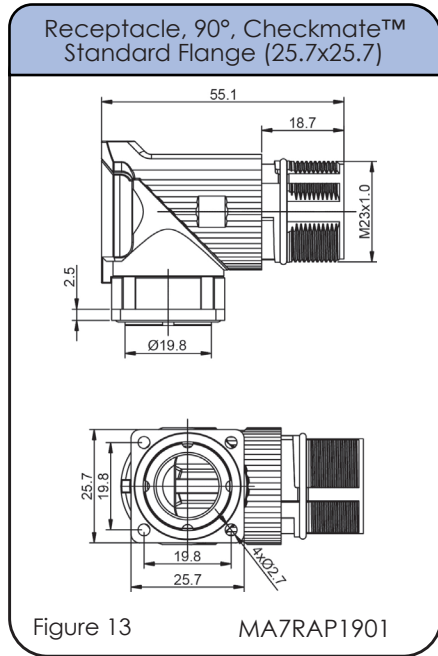




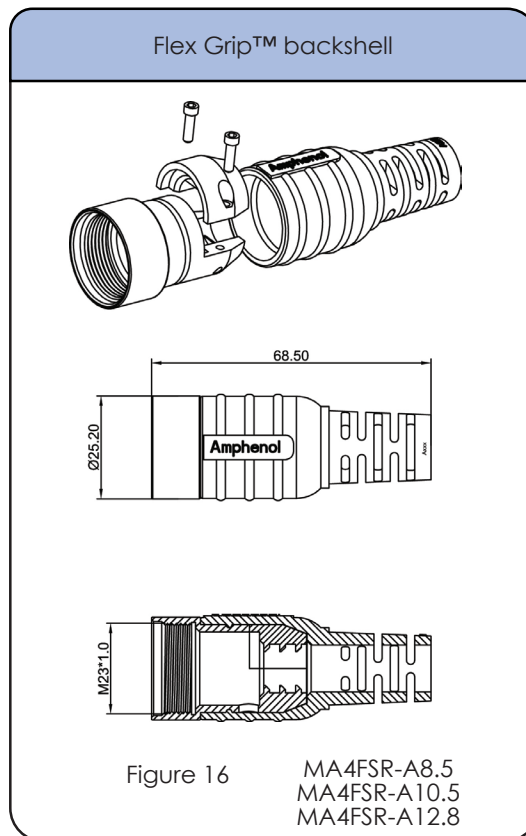
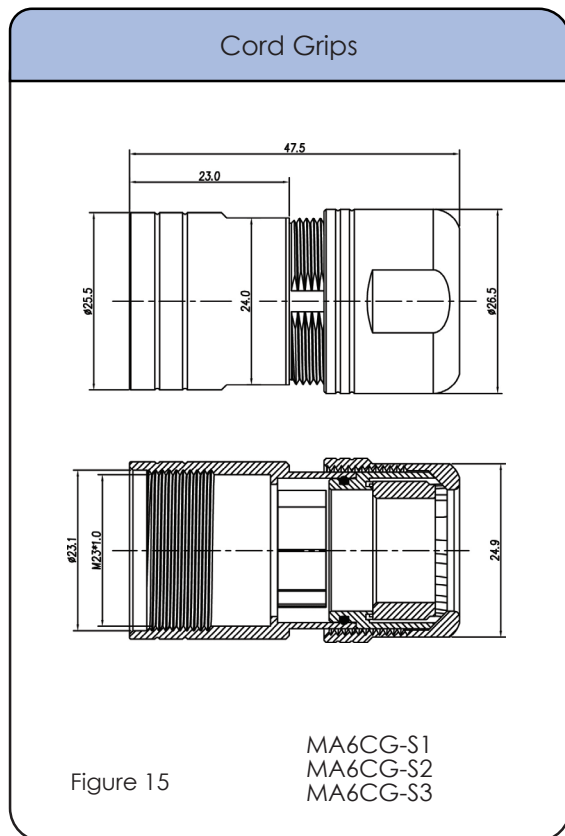


**Style: P type Plug    Number of Contacts: 19    Contact Size: 1.0mm**  
 Sealing: IP66/67    AWG: 22-18 (0.37 - 0.75 to 1.0 mm<sup>2</sup>)

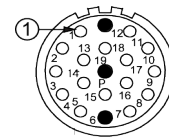
### Dimensions Threaded 90° Receptacles



### Dimensions Cord Grips / Backshells



Complete datasheets can be found at [www.amphenol-sine.com](http://www.amphenol-sine.com)












**19 POSITIONS**  
**7A / 63V**  
**P type**

**Style: P type Plug**    **Number of Contacts: 19**    **Contact Size: 1.0mm**  
**Sealing: IP66/67**    **AWG: 22-18 (0.37 - 0.75 to 1.0 mm<sup>2</sup>)**

CONNECTOR SOLUTIONS

### Tools & Accessories

<p>Universal hand crimp tool. Uses universal positioner part no. SK2-2* Wire range 20-32AWG</p>  <p>AFM8</p>	<p>Universal hand crimp tool. Uses universal positioner part no. UH2-5* Wire range 12-26AWG</p>  <p>AF8</p>	<p>Pneumatic crimp tool. Uses universal positioner part no. SK2-2* Wire range 20-32AWG</p>  <p>WA22</p>
<p>Universal positioner is used with crimp tools AFM8 and WA22. Wire range 20-32AWG</p>  <p>SK2-2</p>	<p>Universal positioner is used with the universal hand crimp tool (AF8). Wire range 12-26AWG</p>  <p>UH2-5</p>	<p>Pneumatic crimp tool. Uses universal positioner part no. UH2-5*. Wire range 12-26AWG</p>  <p>WA27F</p>
<p>Dust Cap for Receptacles</p>  <p>P29687</p>	<p>Dust Cap for Plug, Threaded</p>  <p>P31660</p>	<p>Dust Cap for Plug, Checkmate™</p>  <p>P31662</p>

\* The universal positioner is not included with the crimp tools and must be ordered separately.