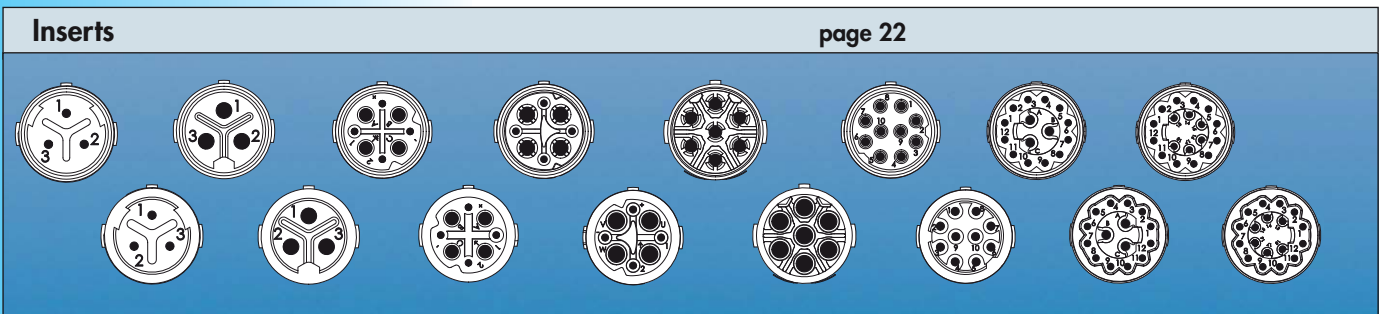
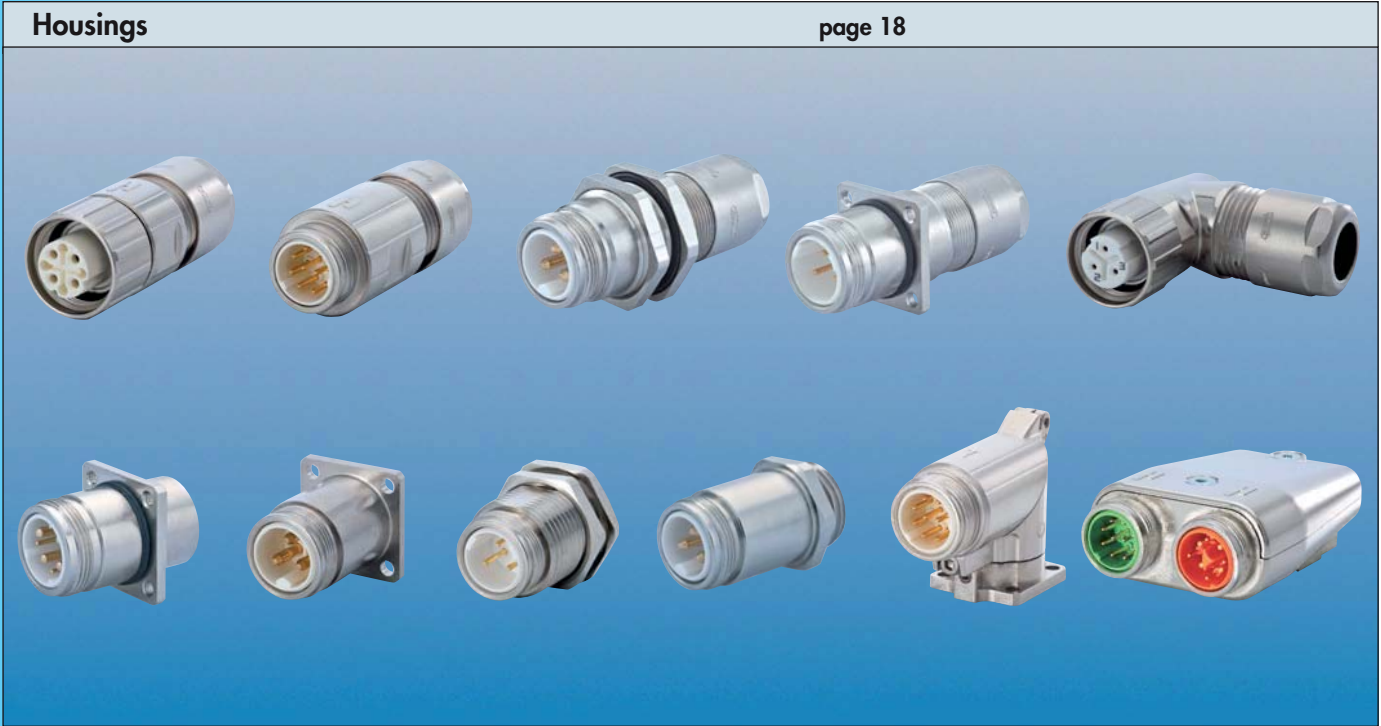


# Connectors M 16

**T**WINTUS  
inclusive



# Product Overview




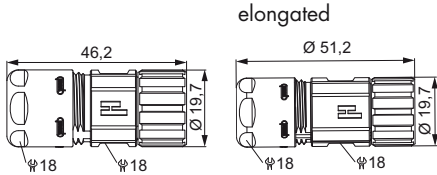
## M 16 Control Signal Connectors


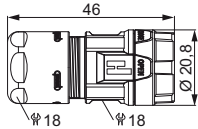
Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy Die Cast
Housing surface	Nickel plated other surface upon request
Inserts (for contacts)	Thermoplastic Polyamid PA 6 (Nylon 6/6), PBT    Fire protection class V-0
Contacts	Brass Alloy
Contact surface at point of contact	Nickel and gold plated (0,25µm Au)
Minimum mating cycles	> 1000
Seals / O-Rings	Buna-N standard, optional Viton® (Viton is a registered trademark of DuPont)
Temperature range	-40° C – 125° C (-40 °F – 257 °F)
Type of contacts	Crimp, dip-solder (PCB)
Protection	IP 67 / IP 69K per EN 60 529 (connected), NEMA 4x
Cable diameter range	2 – 11 mm (.08 – .43")


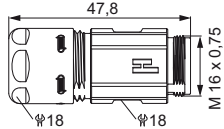
Electrical Data					
Number of positions	3 (3x1 mm)	3 (3x2 mm)	4 + 3 + PE / 320V		4 + 3 + PE / 630V
Number of contacts	3	3	4	4	4    4
ContactØ [mm]	1	2	0,8	1,6	0,8    1,25
AWG [mm²]	0,14 – 1	0,5 – 2,5	0,08 – 0,34	0,34 – 1,5	0,08 – 0,34    0,34 – 1,5
Nominal current <sup>1)</sup> [A]	8	20	5	16	5    16
Nominal voltage <sup>2)</sup> [V~] <small>degree of protection 3<sup>4)</sup></small>	400	400	160	320	300    630
Test voltage (Breakdown voltage) <sup>3)</sup> [V~]	2500	2500	1500	2500	1500    2500
Insulation resistance [MΩ]	> 10 <sup>10</sup>	> 10 <sup>10</sup>	> 10 <sup>10</sup>		> 10 <sup>10</sup>
Max. contact resistance [mΩ]	3	3	3		3    3
Number of positions	6+PE	10	12 + 3		18
Number of contacts	7	10	12	3	18
ContactØ [mm]	1,25	1	0,8	1,25	0,8
AWG [mm²]	0,5 – 1,5	0,14 – 0,75	0,08 – 0,34	0,5 – 1,5	0,08 – 0,34
Nominal current <sup>1)</sup> [A]	16	8	3	10	3
Nominal voltage <sup>2)</sup> [V~] <small>degree of protection 3<sup>4)</sup></small>	630	160	24	60	24
Test voltage (Breakdown voltage) <sup>3)</sup> [V~]	2500	1500	1500	2500	1500
Insulation resistance [MΩ]	> 10 <sup>10</sup>	> 10 <sup>6</sup>	> 10 <sup>10</sup>		> 10 <sup>10</sup>
Max. contact resistance [mΩ]	3	3	3	3	3


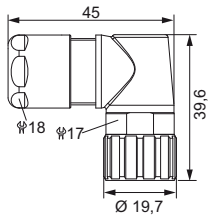
<sup>1), 2), 3), 4)</sup> See Technical Information page 14

## Connectors M 16 / Housing

Straight Connector, Female Thread / elongated *		Cable-Ø	Part Number
		3 – 6 mm (.11 – .23").....7.810.300.000	
		5 – 9 mm (.20 – .35").....7.810.400.000	
		8 – 11 mm (.31 – .43").....7.810.500.000	
		<b>* elongated</b>	
		3 – 6 mm (.11 – .23").....7.811.300.000	
		5 – 9 mm (.20 – .35").....7.811.400.000	
		8 – 11 mm (.31 – .43").....7.811.500.000	
Contacts and inserts page 22 • Assembly instructions page 35 / 36			

Straight Connector, Female Thread TWILOCK		Cable-Ø	Part Number
		3 – 6 mm (.12 – .24").....7.816.300.000	
		5 – 9 mm (.20 – .35").....7.816.400.000	
		8 – 11 mm (.31 – .43").....7.816.500.000	
Contacts and inserts page 22 • Assembly instructions page 35 / 36			

Straight Connector, Male Thread		Cable-Ø	Part Number
		3 – 6 mm (.11 – .23").....7.820.300.000	
		5 – 9 mm (.20 – .35").....7.820.400.000	
		8 – 11 mm (.31 – .43").....7.820.500.000	
Contacts and inserts page 22 • Assembly instructions page 35 / 36			

Right Angle Connector with positioning		Cable-Ø	Part Number
		3 – 6 mm (.11 – .23").....7.831.300.000	
		5 – 9 mm (.20 – .35").....7.831.400.000	
		8 – 11 mm (.31 – .43").....7.831.500.000	
Contacts and inserts page 22 • Assembly instructions page 37			

## Connectors M 16 / Housing

Cable-Ø	Part Number	Panel Connector with built in Cable Strain Relief
<b>Rear mounting, single hole mounted</b> 2 – 7 mm (.08 – .28").....7.852.300.000 5 – 9 mm (.20 – .35").....7.852.400.000		
Including jam nut PG 11		
Contacts and inserts page 22 • Assembly instructions page 35/36		

Cable-Ø	Part Number	Panel Connector with built in Cable Strain Relief
<b>Rear mounting, M2,5 x 4 single hole mounted</b> 2 – 7 mm (.08 – .28").....7.847.300.000 5 – 9 mm (.20 – .35").....7.847.400.000		
Contacts and inserts page 22 • Assembly instructions page 35/36		

Type	Part Number	Panel Connector, Male Thread, Front Mounting
4 x holes Ø 2,7 mm (.11") ..7.840.000.000 Flange 20 x 20 mm		
4 x holes Ø 2,7 mm.....7.840.100.000 Flange 25 x 25 mm		
Contacts and inserts page 22 • Assembly instructions page 38		

Type	Part Number	Panel Connector, Male Thread, Front Mounting
<b>Short version</b> 4 x holes Ø 2,7 mm (.11") ..7.840.200.000 Flange 20 x 20 mm		
Contacts and inserts page 22 • Assembly instructions page 38		

# Connectors M 16 / Housing

Right Angle Panel Connector, Male Thread, rotatable		Type	Part Number
		<b>300° rotatable, locking screw at flange</b> 4 x holes Ø 2,7 mm (.11") ...7.843.000.000 Flange 20 x 20 mm	
		4 x holes Ø 2,7 mm.....7.843.100.000 Flange 25 x 25 mm	
		Contacts and inserts page 22 • Assembly instructions page 39	

Panel Connector, Male Thread		Type	Part Number
		<b>Front mounting, single hole mounted</b> Thread M 16 x 1,5 .....7.842.000.000	
		Contacts and inserts page 22 • Assembly instructions page 38	

Panel Connector, Male Thread		Type	Part Number
		<b>Rear mounting, single hole mounted</b> Including jam nut.....7.850.000.000	
		Contacts and inserts page 22 • Assembly instructions page 38	

Panel Connector, Male Thread		Type	Part Number
		<b>Rear mounting, 4 x thread M2,5</b> Flange 20 x 20 mm .....7.845.000.000	
		Contacts and inserts page 22 • Assembly instructions page 38	

# Connectors M 16 / Housing



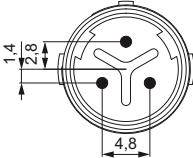
Type	Part Number	TWINTUS	
Flange 20 x 20 mm			
Uncoated .....	7.848.000.000		
Surface nickel plated .....	7.848.000.001		
Surface black conductive.....	7.848.000.00B		
Contacts and inserts page 22 • Accessories page 29 • Assembly instructions page 33			



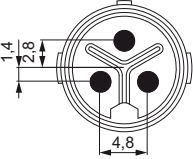
Type	Part Number	TWINTUS	
Flange 25 x 25 mm			
Uncoated .....	7.848.100.000		
Surface nickel plated .....	7.848.100.001		
Surface black conductive.....	7.848.100.00B		
Contacts and inserts page 22 • Accessories page 29 • Assembly instructions page 33			

Type	Part Number	TWINTUS M 16 / M 12	
Flange 20 x 20 mm			
Uncoated .....	7.848.200.000		
Surface nickel plated .....	7.848.200.001		
Surface black conductive.....	7.848.200.00B		
Contacts and inserts page 22 • Accessories page 29 • Assembly instructions page 34			

Type	Part Number	TWINTUS M 16 / M 12	
Flange 25 x 25 mm			
Uncoated .....	7.848.300.000		
Surface nickel plated .....	7.848.300.001		
Surface black conductive.....	7.848.300.00B		
Contacts and inserts page 22 • Accessories page 29 • Assembly instructions page 34			

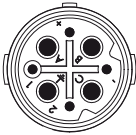
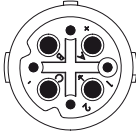
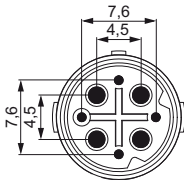
## Connectors M 16 / Inserts / Pinouts

Inserts 3-pole (3 x 1 mm)	Type	Part Number	
		Pins	Sockets
 <p>Insert pin mating view</p>	Insert		
	without contacts .....	7.003.903.101	7.003.903.102
	Insert with dip solder contacts		
	Length 10 mm .....	7.001.903.127	7.001.903.108
 <p>Insert socket mating view</p>	Insert with dip solder contacts		
	Length 17 mm .....	7.001.903.137	7.001.903.118
	<b>Required Contacts</b>		
	3 x 1 mm .....	7.010.901.001	7.010.901.002 / 7.010.901.012
			
Contacts page 27 - 28			

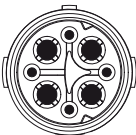
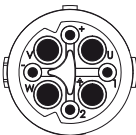
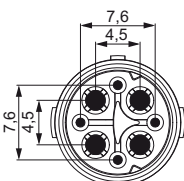
Inserts 3-pole (3 x 2 mm)	Type	Part Number	
		Pins	Sockets
 <p>Insert pin mating view</p>	Insert		
	without contacts .....	7.003.983.101	7.003.983.102
	Insert with dip solder contacts		
	Length 10 mm .....	7.001.983.127	7.001.983.108
 <p>Insert socket mating view</p>	Insert with dip solder contacts		
	Length 17 mm .....	7.001.983.137	7.001.983.118
	<b>Required Contacts</b>		
	3 x 2 mm .....	7.010.982.001	7.010.982.002
			
Contacts page 27 - 28			



## Connectors M 16 / Inserts / Pinouts

Type	Part Number	Part Number	Inserts 4+3+PE
	Pins	Sockets	
Insert without contacts	7.003.943.101	7.003.943.102	 Insert pin mating view
Insert RAL 2003 (DESINA orange) without contacts	7.053.943.101	7.053.943.102	
Insert with dip solder contacts			 Insert socket mating view
Length 10 mm	7.001.943.127	7.001.943.108	
Insert with dip solder contacts			
Length 17 mm	7.001.943.137	7.001.943.118	
<b>Required Contacts</b>			
4 x 0,8 mm	7.010.980.801	7.010.980.802	
4 x 1,6 mm	7.010.981.601	7.010.981.602	

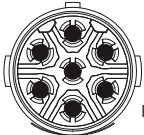
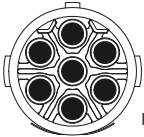
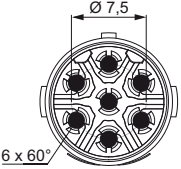
Contacts page 27-28

Type	Part Number	Part Number	Inserts 4+3+PE 630 V
	Pins	Sockets	
Insert without contacts	7.003.908.101	7.003.908.102	 Insert pin mating view
Insert RAL 2003 (DESINA orange) without contacts	7.053.908.101	7.053.908.102	
Insert with dip solder contacts			 Insert socket mating view
Length 10 mm <sup>1)</sup>	7.001.908.127	7.001.908.108	
Insert with dip solder contacts			
Length 17 mm <sup>1)</sup>	7.001.908.137	7.001.908.118	
<b>Required Contacts</b>			
4 x 0,8 mm	7.010.980.811	7.010.980.812	
4 x 1,25 mm	7.010.981.211	7.010.981.212	

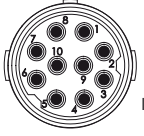
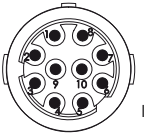
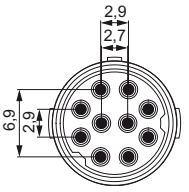
Contacts page 27-28

<sup>1)</sup> Under development

## Connectors M 16 / Inserts / Pinouts

Inserts 6+PE	Type	Part Number	
		Pins	Sockets
 Insert pin mating view	Insert		
	without contacts	7.003.961.101	7.003.961.102
 Insert socket mating view	Insert RAL 2003 (DESINA orange)		
	without contacts	7.053.961.101	7.053.961.102
 Ø 7,5 6 x 60°	Insert with dip solder contacts		
	Length 10 mm <sup>1)</sup>	7.001.961.127	7.001.961.108
	Insert with dip solder contacts		
	Length 17 mm <sup>1)</sup>	7.001.961.137	7.001.961.118
	<b>Required Contacts</b>		
	7 x 1,25 mm	7.010.981.211	7.010.981.212

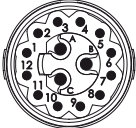
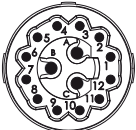
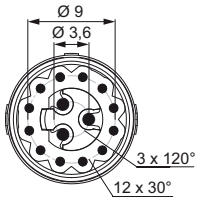
Contacts page 27-28



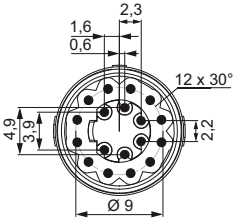
Inserts 10-pole	Type	Part Number	
		Pins	Sockets
 Insert pin mating view	Insert		
	without contacts	7.003.910.101	7.003.910.102
 Insert socket mating view	Insert RAL 6018 (DESINA green)		
	without contacts	7.053.910.101	7.053.910.102
 6,9 2,9 2,7	Insert with dip solder contacts		
	Length 10 mm	7.001.910.127	7.001.910.108
	Insert with dip solder contacts		
	Length 17 mm	7.001.910.137	7.001.910.118
	<b>Required Contacts</b>		
	10 x 1 mm	7.010.981.001	7.010.981.002

Contacts page 27-28


<sup>1)</sup> Under development

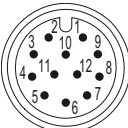
## Connectors M 16 / Inserts / Pinouts

Type	Part Number	Part Number	Inserts 12+3-pole
	Pins	Sockets	
Insert without contacts .....	7.003.985.101	7.003.985.102	 <p>Insert pin mating view</p>
Insert with dip solder contacts Length 10 mm .....	7.001.985.127	7.001.985.108	
Insert with dip solder contacts Length 17 mm .....	7.001.985.137	7.001.985.118	
<b>Required Contacts</b>			 <p>Insert socket mating view</p>
12 x 0,8 mm .....	7.010.980.801	7.010.980.802	
3 x 1,25 mm .....	7.010.981.201	7.010.981.202	
Contacts page 27-28			

Type	Part Number	Part Number	Inserts 18-pole
	Pins	Sockets	
Insert without contacts .....	7.003.988.101	7.003.988.102	 <p>Insert pin mating view</p>
Insert RAL 6018 (DESINA green) without contacts .....	7.053.988.101	7.053.988.102	
Insert with dip solder contacts Length 10 mm .....	7.001.988.127	7.001.988.108	
Insert with dip solder contacts Length 17 mm .....	7.001.988.137	7.001.988.118	 <p>Insert socket mating view</p>
<b>Required Contacts</b>			
18 x 0,8 mm .....	7.010.980.801	7.010.980.802	
Contacts page 27-28			

## Connectors M 16 / Inserts / Pinouts









Inserts M 12 for TWINTUS M 16 / M 12 8-pole	Type	Part Number
 <p data-bbox="300 607 451 629">insert pin mating view</p>	<p data-bbox="946 472 1217 495"><b>Pins</b></p> <p data-bbox="946 506 1185 528">Insert with solder contacts .....</p>	<p data-bbox="1249 472 1294 495"><b>Pins</b></p> <p data-bbox="1249 506 1445 528">A712-7001908103</p>

Inserts M 12 for TWINTUS M 16 / M 12 12-pole	Type	Part Number
 <p data-bbox="300 940 451 963">insert pin mating view</p>	<p data-bbox="946 806 1217 828"><b>Pins</b></p> <p data-bbox="946 840 1185 862">Insert with solder contacts .....</p>	<p data-bbox="1249 806 1294 828"><b>Pins</b></p> <p data-bbox="1249 840 1445 862">A712-7001912103</p>

Type	Crimp Range	Part Number	Contacts
Crimp pin 0,8 mm, machined.....	0,08 – 0,34 mm <sup>2</sup> (AWG 28 – 22)	7.010.980.801	
Crimp socket 0,8 mm, machined.....	0,08 – 0,34 mm <sup>2</sup> (AWG 28 – 22)	7.010.980.802	
Crimp pin 0,8 mm, machined.....	0,08 – 0,34 mm <sup>2</sup> (AWG 28 – 22)	7.010.980.811	
Crimp socket 0,8 mm, machined.....	0,08 – 0,34 mm <sup>2</sup> (AWG 28 – 22)	7.010.980.812	
Crimp pin 1 mm, machined.....	0,08 – 0,75 mm <sup>2</sup> (AWG 28 – 18)	7.010.981.001	
Crimp socket 1 mm, machined.....	0,08 – 0,75 mm <sup>2</sup> (AWG 28 – 18)	7.010.981.002	
Crimp pin 1 mm, machined.....	0,14 – 1 mm <sup>2</sup> (AWG 26 – 17)	7.010.901.001	
Crimp socket 1 mm, machined.....	0,08 – 0,56 mm <sup>2</sup> (AWG 28 – 20)	7.010.901.012	
Crimp socket 1 mm, machined.....	0,34 – 1 mm <sup>2</sup> (AWG 22 – 17)	7.010.901.002	

Crimp Tool Settings see page 31 / 32  
Please see assembly instructions on page 40

## Connectors M 16 / Contacts

Contacts	Type	Crimp Range	Part Number
	Crimp pin 1,25 mm, machined.....	0,5 – 1,5 mm <sup>2</sup> (AWG 20 – 16).....	7.010.981.201
	Crimp socket 1,25 mm, machined.....	0,5 – 1,5 mm <sup>2</sup> (AWG 20 – 16).....	7.010.981.202
	Crimp pin 1,25 mm, machined.....	0,34 – 1,5 mm <sup>2</sup> (AWG 20 – 16).....	7.010.981.211
	Crimp socket 1,25 mm, machined.....	0,34 – 1,5 mm <sup>2</sup> (AWG 20 – 16).....	7.010.981.212
	Crimp pin 1,6 mm, machined.....	0,34 – 1,5 mm <sup>2</sup> (AWG 22 – 16).....	7.010.981.601
	Crimp socket 1,6 mm, machined.....	0,34 – 1,5 mm <sup>2</sup> (AWG 22 – 16).....	7.010.981.602
	Crimp pin 2 mm, machined.....	1,0 – 2,5 mm <sup>2</sup> (AWG 17 – 14).....	7.010.982.001
	Crimp socket 2 mm, machined.....	1,0 – 2,5 mm <sup>2</sup> (AWG 17 – 14).....	7.010.982.002

Crimp Tool Settings see page 31 / 32  
Please see assembly instructions on page 40

## Connectors M 16 / Accessories

Type	Part Number	Accessories
Plastic protective cap for connectors with male thread .....7.000.980.161 for connectors with female thread.....7.000.980.162		
Brass protective cap for connectors with female thread.....7.010.900.163		
Brass protective cap for connectors with male thread .....7.010.900.162		
Brass protective cap with chain for connectors with female thread .....Length 70 mm .....7.010.9S0.705		
Brass protective cap with chain for connectors with male thread .....Length 70 mm .....7.010.9S0.704		

## Connectors M 16 / Accessories

Accessories	Type	Part Number
	Crimp tool for manual crimping of machined crimp contacts for signal connectors M 16 and M 23 .....	7.000.900.904
See page 84 for crimp tool instructions		
	Adaptor flange for Straight Connectors .....	7.010.900.135
	Conduit adaptor	DN 10 .....7.010.900.200 Snapflex 16.....7.010.900.201 DN 12 .....7.010.900.202 Snapflex 16.....7.010.900.203
	EMC-sheet for TWINTUS Flange 20 x 20 ..... for TWINTUS Flange 25 x 25 .....	7.040.848.101 7.040.848.102
	Plastic protective cap for TWINTUS	TWINTUS M 16 .....7.000.848.101 TWINTUS M 16 / M 12 .....7.000.848.102



## Crimp Tool for Connectors M 16

Crimp Tool Setting for HUMMEL Crimp Contacts (Crimp Tool 7.000.900.904)					
Part Number	Crimp Contact	Cross Section (mm <sup>2</sup> )	AWG	Crimp Tool Setting mm	Locator Setting
7.010.980.801	Crimp pin 0,8 mm	0,08	AWG 28	0,57	10
		0,14	AWG 26	0,60	
		0,25	AWG 24	0,64	
		0,34	AWG 22	0,73	
7.010.980.802	Crimp socket 0,8 mm	0,08	AWG 28	0,57	10
		0,14	AWG 26	0,60	
		0,25	AWG 24	0,64	
		0,34	AWG 22	0,73	
7.010.980.811	Crimp pin 0,8 mm	0,08	AWG 28	0,57	B7
		0,14	AWG 26	0,60	
		0,25	AWG 24	0,64	
		0,34	AWG 22	0,73	
7.010.980.812	Crimp socket 0,8 mm	0,08	AWG 28	0,57	B8
		0,14	AWG 26	0,60	
		0,25	AWG 24	0,64	
		0,34	AWG 22	0,73	
7.010.981.001	Crimp pin 1 mm	0,08	AWG 28	0,60	7
		0,14	AWG 26	0,65	
		0,25	AWG 24	0,67	
		0,34	AWG 22	0,71	
		0,56	AWG 20	0,75	
		0,75	AWG 18	0,82	
7.010.981.002	Crimp socket 1 mm	0,08	AWG 28	0,60	8
		0,14	AWG 26	0,63	
		0,25	AWG 24	0,66	
		0,34	AWG 22	0,69	
		0,56	AWG 20	0,75	
		0,75	AWG 18	0,83	
7.010.901.001	Crimp pin 1 mm	0,14	AWG 26	0,70	1
		0,25	AWG 24	0,76	
		0,34	AWG 22	0,82	
		0,50	AWG 20	0,90	
		0,75	AWG 18	1,00	
		1,0	AWG 17	1,10	
7.010.901.012	Crimp socket 1 mm (0,08-0,56 mm <sup>2</sup> )	0,08	AWG 28	0,75	2
		0,14	AWG 26	0,78	
		0,25	AWG 24	0,82	
		0,34	AWG 22	0,86	
		0,56	AWG 20	0,90	

These values are only guidelines and actual conductor cross sections depend on manufacturer tolerances.

See page 40 for crimp tool instructions

## Crimp Tool for Connectors M 16

### Crimp Tool Setting for HUMMEL Crimp Contacts (Crimp Tool 7.000.900.904)

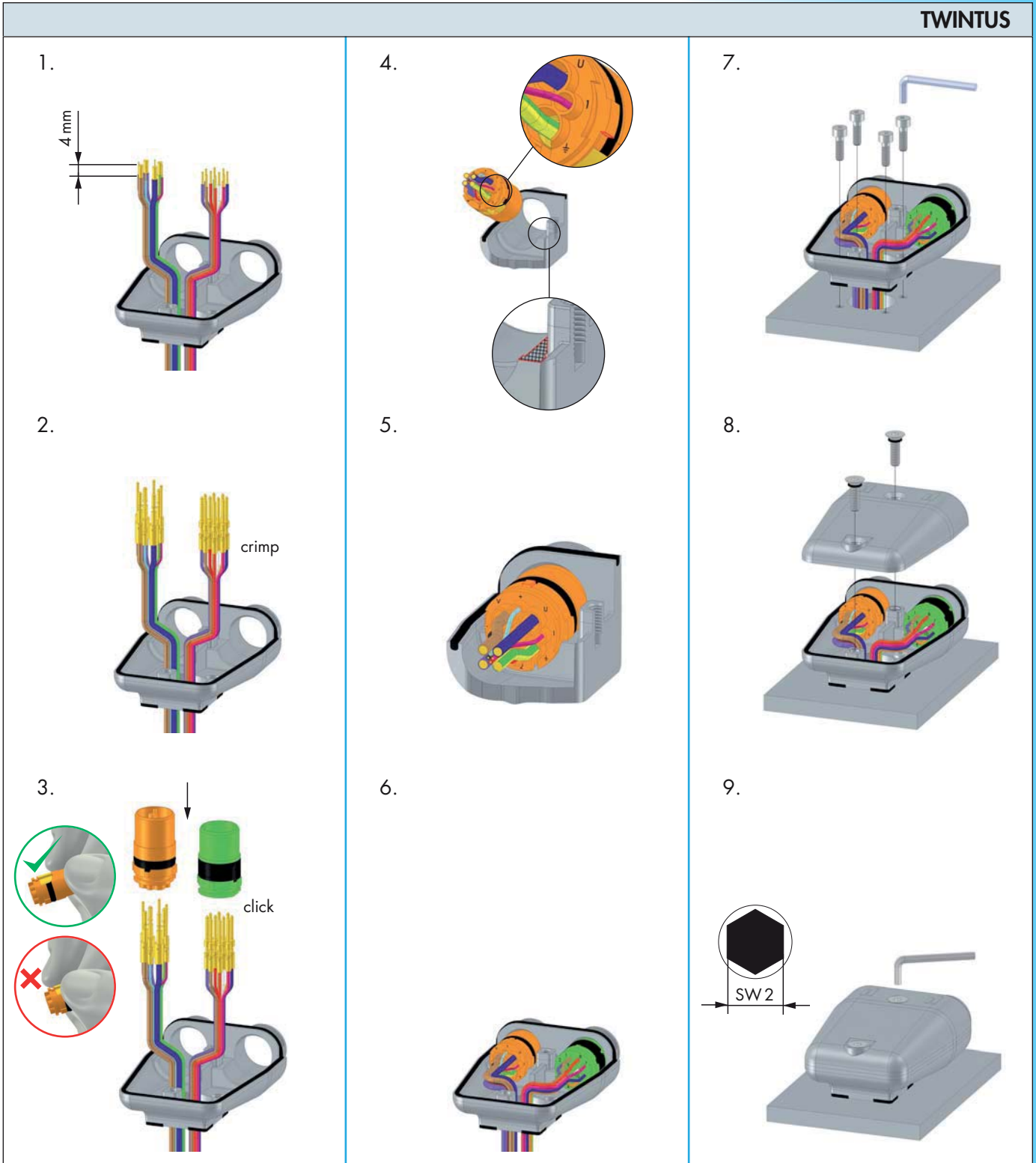
Part Number	Crimp Contact	Cross Section (mm <sup>2</sup> )	AWG	Crimp Tool Setting mm	Locator Setting
7.010.901.002	Crimp socket 1 mm (0,34 – 1 mm <sup>2</sup> )	0,34	AWG 22	0,77	2
		0,56	AWG 20	0,82	
		0,75	AWG 18	0,88	
		1,0	AWG 17	0,95	
7.010.981.201	Crimp pin 1,25 mm	0,5	AWG 20	0,70	2
		0,75	AWG 18	0,73	
		1,0	AWG 17	0,79	
		1,5	AWG 16	0,88	
7.010.981.202	Crimp socket 1,25 mm	0,5	AWG 20	0,70	2
		0,75	AWG 18	0,73	
		1,0	AWG 17	0,79	
		1,5	AWG 16	0,88	
7.010.981.211	Crimp pin 1,25 mm	0,34	AWG 22	0,80	B9
		0,5	AWG 20	0,84	
		0,75	AWG 18	0,90	
		1,0	AWG 17	1,00	
		1,5	AWG 16	1,10	
7.010.981.212	Crimp socket 1,25 mm	0,34	AWG 22	1,00	B10
		0,5	AWG 20	1,04	
		0,75	AWG 18	1,10	
		1,0	AWG 17	1,20	
		1,5	AWG 16	1,30	
7.010.981.601	Crimp pin 1,6 mm	0,34	AWG 22	0,80	6
		0,56	AWG 20	0,84	
		0,75	AWG 18	0,90	
		1,0	AWG 17	1,00	
		1,5	AWG 16	1,10	
7.010.981.602	Crimp socket 1,6 mm	0,34	AWG 22	0,83	9
		0,56	AWG 20	0,90	
		0,75	AWG 18	0,97	
		1,0	AWG 17	1,02	
		1,5	AWG 16	1,10	
7.010.982.001	Crimp pin 2 mm	1,0	AWG 17	1,35	4
		1,5	AWG 16	1,45	
		2,5	AWG 14	1,60	
7.010.982.002	Crimp socket 2 mm	1,0	AWG 17	1,35	5
		1,5	AWG 16	1,45	
		2,5	AWG 14	1,60	

These values are only guidelines and actual conductor cross sections depend on manufacturer tolerances.

See page 40 for crimp tool instructions

# Connectors M 16 / Assembly Instructions

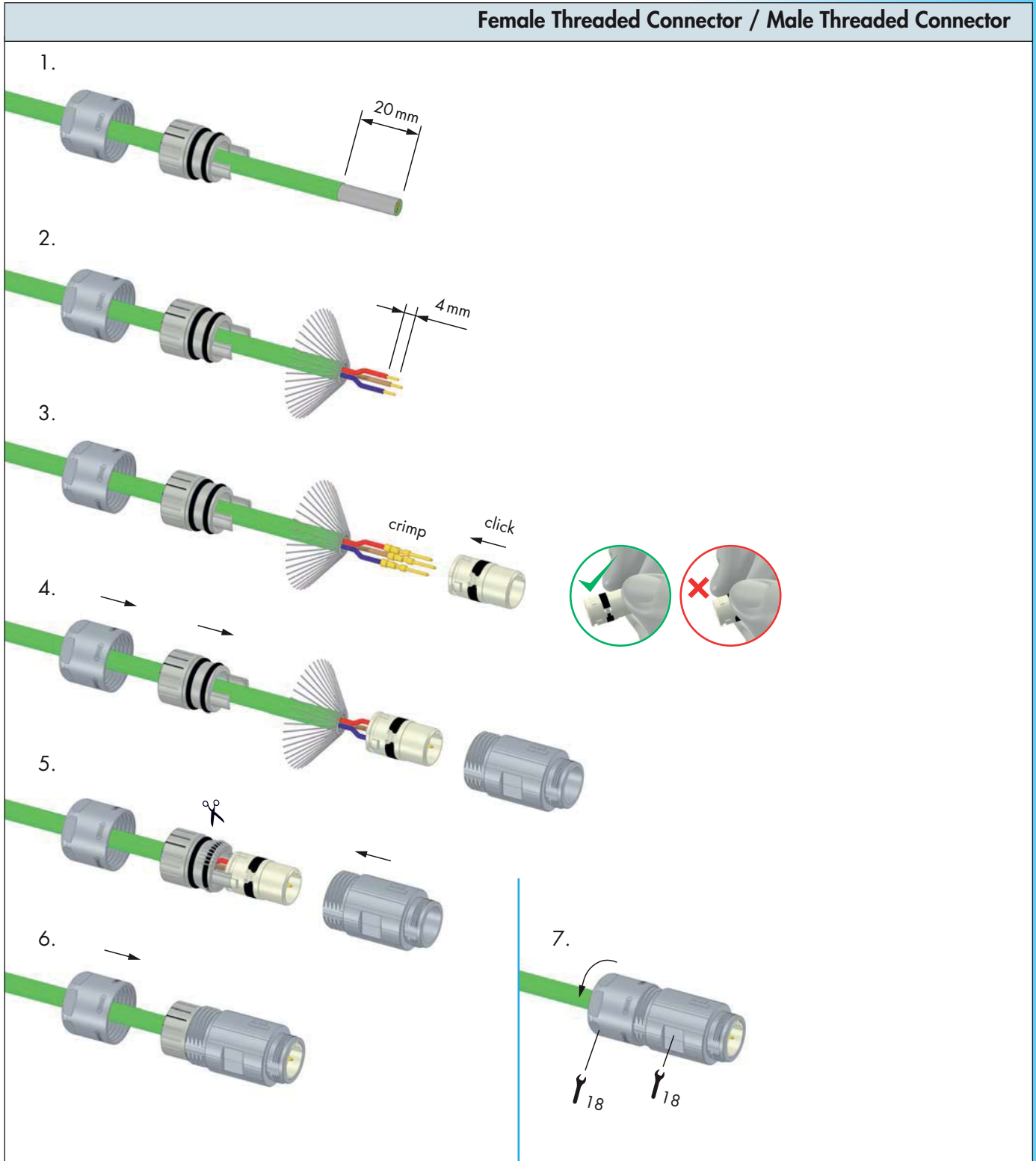
TWINTUS



# Connectors M 16 / Assembly Instructions

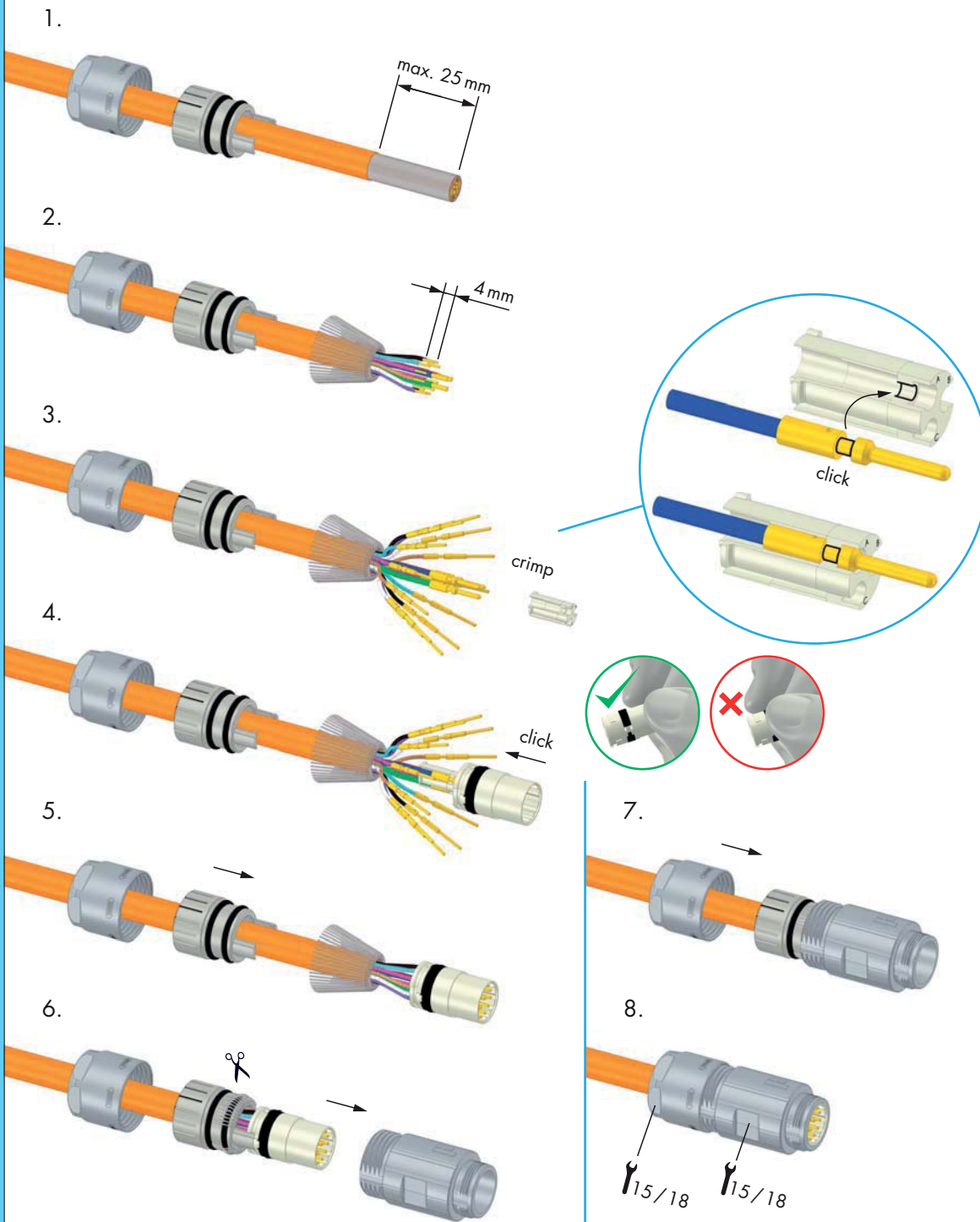
TWINTUS M16 / M12		
<p>1.</p> <p>4 mm</p>	<p>4.</p>	<p>7.</p>
<p>2.</p> <p>crimp</p>	<p>5.</p>	<p>8.</p>
<p>3.</p> <p>4 mm</p> <p>solder</p> <p>45°</p> <p>click</p>	<p>6.</p>	<p>9.</p> <p>SW 2</p>

# Connectors M 16 / Assembly Instructions

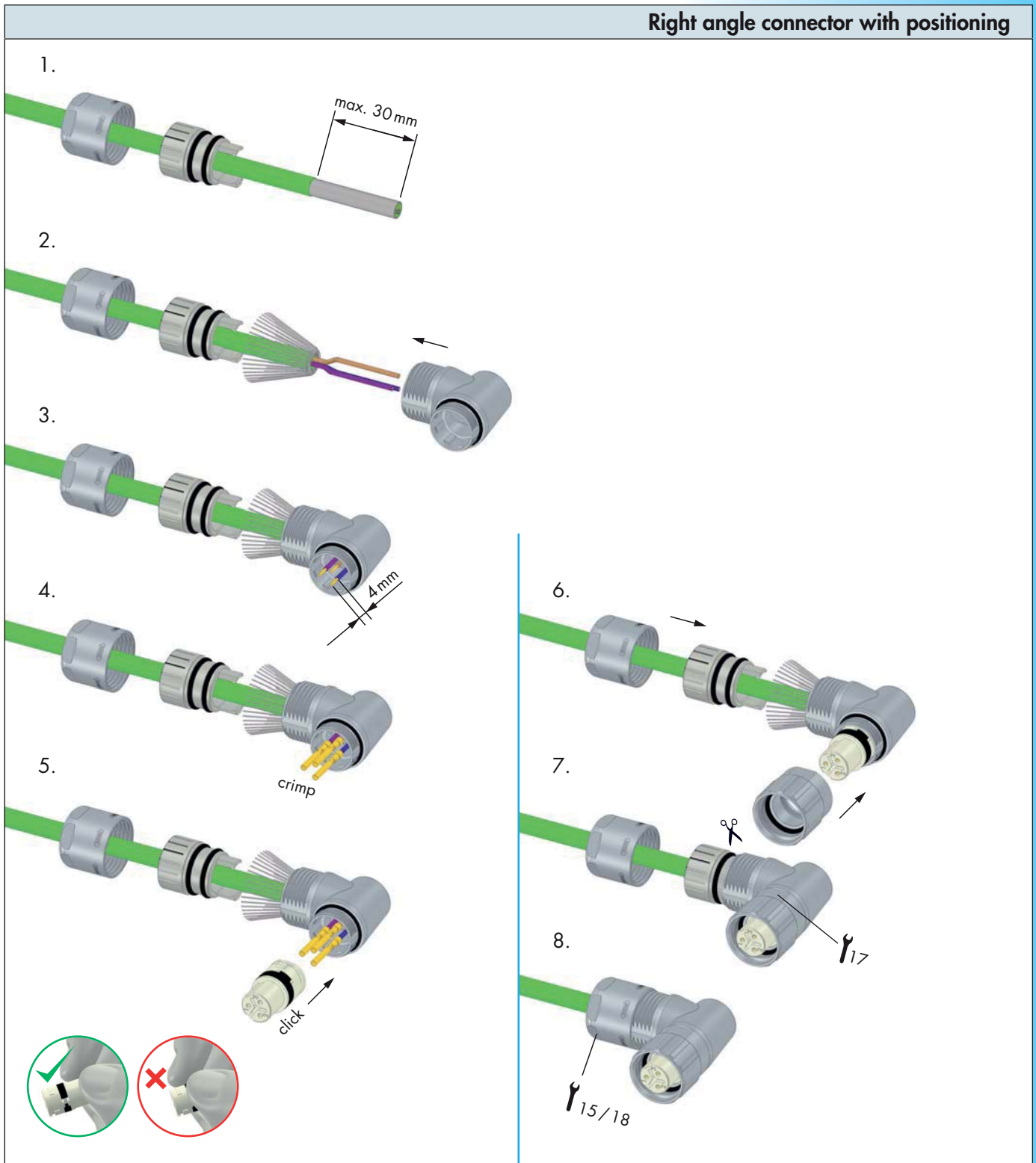


# Connectors M 16 / Assembly Instructions

## Female Threaded Connector / Male Threaded Connector 12+3

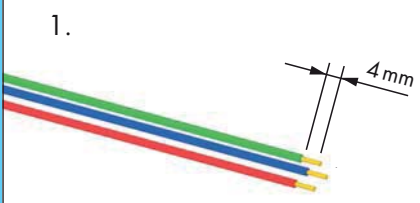
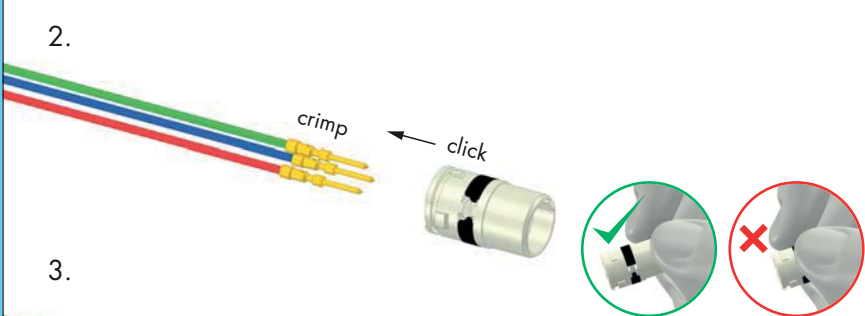
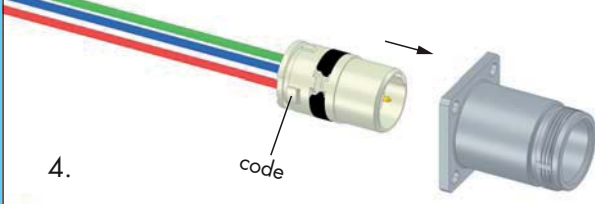
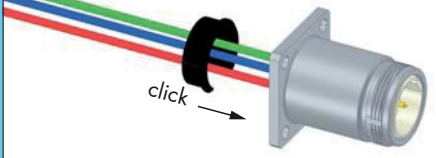


# Connectors M 16 / Assembly Instructions



# Connectors M 16 / Assembly Instructions

**Panel Connector**

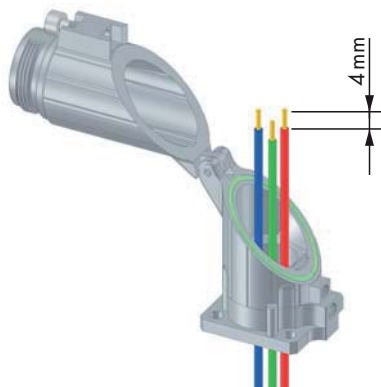
1. 
2. 
3. 
4. 



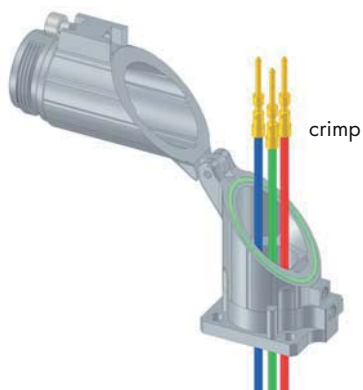
# Connectors M 16 / Assembly Instructions

## Right Angle Panel Connector

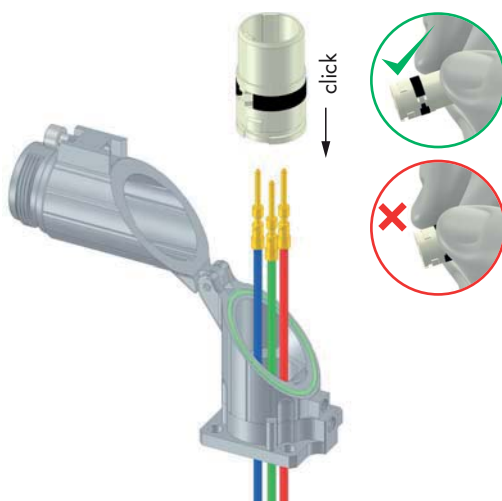
1.



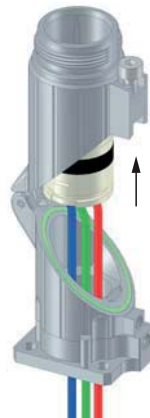
2.



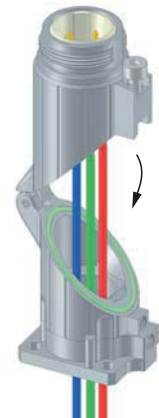
3.



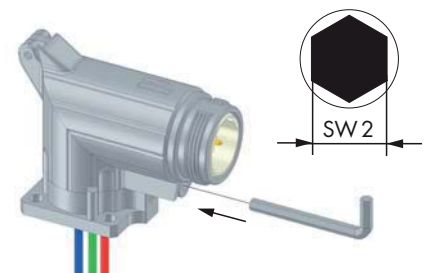
4.



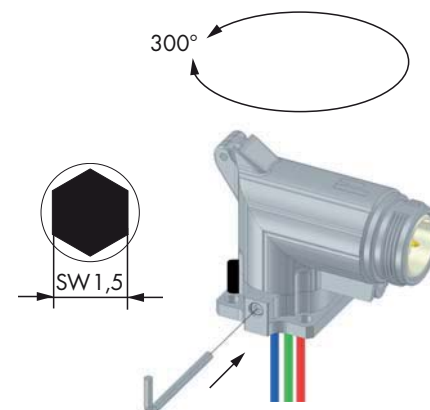
5.



6.

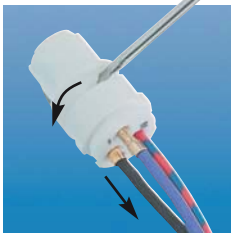
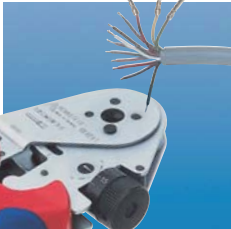


7.



## Crimping, Assembly and Disassembly of Contacts

### Crimping, Assembly and Disassembly of Contacts



#### Crimping

- Remove conductor insulation 4 mm (.16") max.
- Select appropriate Crimp tool setting (see page 31 - 32)
- Push crimp contact into opening of crimping tool
- Insert stripped wire into the funnel shaped end of the crimp contact
- Squeeze handles of crimping tool together connect contact to wire

#### Assembly

- Remove crimped assembly and pull on wire to test connection
- Push into desired position of insert


#### Disassembly of Contacts from Insert

A small screwdriver is needed to remove the contacts from the insert.

- Release the white ring by a screwdriver out of the insert
- Move the misplaced contacts out of the insert
- Enter the ring back into the insert
- Push the contacts back into insert

#### Shielding

- Assemble strain relief insert with insert
- Fold stranding of the shield back over the first O-Ring of the strain relief insert
- Cut back the overextending braid

 The stranding of the shield is not allowed to touch the second O-Ring. Otherwise the assembly may not be proof.