

M8 DISTRIBUTION SYSTEMS EXACT8

- Saves space
- Versatile
- Application oriented

EXACT8 – THE NEW GENERATION OF MURRELEKTRONIK'S M8 DISTRIBUTION BOXES

- Small dimensions (30 mm width)
- PUR/PVC cable for flexible and fixed assembly
- High-quality, halogen-free PUR cable suitable for C-tracks, UL/CSA approved
- Standard or side mounting for limited space
- Quick and easy replacement of connection cables

For Sensors and Actuators – Molded Homerun Cables or Connection Caps



Exact8

- 4-, 6-, 8-, 10-way
- PUR or PUR/PVC homerun cable

Page 4.10.1



Exact8 Basic Modules

- 4-, 6-, 8-, 10-way

Page 4.10.5



Exact8 Connection Caps

- Pre-wired
- PUR or PUR/PVC homerun cable

Page 4.10.8



Exact8 Set

- 4-, 6-, 8-, 10-way
- Field-wireable

Page 4.10.11

For Sensors – with M12 Connection



Exact8

- 4-, 6-, 8-, 10-way
- with 8- or 12-pole M12 connection

Page 4.10.12

M8 DISTRIBUTION SYSTEMS

For sensors and actuators
 – with molded homerun cable
 – inline face or side mounting



Approvals:


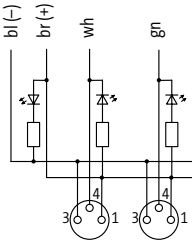
1 Form	84010	86010	88010	80010
Type	PNP, 3-pole	PNP, 3-pole	PNP, 3-pole	PNP, 3-pole
Contact layout	M8-Females 3-pole for 1 signal per port			
2 Cable Type	Jacket Color – No./diameter of wires			
	gray	gray	gray	gray
PUR/PVC	337 – 4 × 0.34 + 2 × 0.75 mm ²	350 – 6 × 0.34 + 2 × 0.75 mm ²	357 – 8 × 0.34 + 2 × 0.75 mm ²	385 – 10 × 0.34 + 2 × 0.75 mm ²
PUR (UL/CSA)	334 – 4 × 0.34 + 2 × 0.75 mm ²	356 – 6 × 0.34 + 2 × 0.75 mm ²	359 – 8 × 0.34 + 2 × 0.75 mm ²	384 – 10 × 0.34 + 2 × 0.75 mm ²
3 Cable Length				
3.0 m	0300			
5.0 m	0500			
10.0 m	1000			
15.0 m	1500			
Technical Data				
Operating voltage	24 V DC			
Total current	max. 10 A			
Protection	IP65, IP67			
Temperature range	-20...+80 °C, depending on cable quality			
Contact Layout				
Contact 1	(+)			
Contact 3	(-)			
Contact 4	(NO)/(S1)			
LED display	LED (green): power / LED (yellow): (S1)			
Article No.				
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 8 0 0 0 - - </div>			
	1	2	3	
	Form	Cable Type	Cable Length	
Notes				

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

- with molded homerun cable
- inline face or side mounting



1 Form	84011	86011	88011	80011																		
Type	NPN, 3-pole	NPN, 3-pole	NPN, 3-pole	NPN, 3-pole																		
Contact layout	M8-Females 3-pole   for 1 signal per port																					
2 Cable Type	Jacket Color – No./diameter of wires <table border="1"> <thead> <tr> <th>gray</th> <th>gray</th> <th>gray</th> <th>gray</th> </tr> </thead> <tbody> <tr> <td>PUR/PVC</td> <td>337 – 4 × 0.34 + 2 × 0.75 mm²</td> <td>350 – 6 × 0.34 + 2 × 0.75 mm²</td> <td>357 – 8 × 0.34 + 2 × 0.75 mm²</td> <td>385 – 10 × 0.34 + 2 × 0.75 mm²</td> </tr> <tr> <td>PUR (UL/CSA)</td> <td>334 – 4 × 0.34 + 2 × 0.75 mm²</td> <td>356 – 6 × 0.34 + 2 × 0.75 mm²</td> <td>359 – 8 × 0.34 + 2 × 0.75 mm²</td> <td>384 – 10 × 0.34 + 2 × 0.75 mm²</td> </tr> </tbody> </table>				gray	gray	gray	gray	PUR/PVC	337 – 4 × 0.34 + 2 × 0.75 mm ²	350 – 6 × 0.34 + 2 × 0.75 mm ²	357 – 8 × 0.34 + 2 × 0.75 mm ²	385 – 10 × 0.34 + 2 × 0.75 mm ²	PUR (UL/CSA)	334 – 4 × 0.34 + 2 × 0.75 mm ²	356 – 6 × 0.34 + 2 × 0.75 mm ²	359 – 8 × 0.34 + 2 × 0.75 mm ²	384 – 10 × 0.34 + 2 × 0.75 mm ²				
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	1	Form	2	Cable Type	3	Cable Length																
Notes																						

M8 DISTRIBUTION SYSTEMS

For sensors and actuators
– with molded homerun cable
– inline face or side mounting



Approvals:

1 Form	84110	86110	88110	80110
Type	PNP, 4-pole	PNP, 4-pole	PNP, 4-pole	PNP, 4-pole
Contact layout	M8-Females 4-pole 4 (S1) 2 (S2) 3 (-) 1 (+) for 2 signals per port			
2 Cable Type	Jacket Color – No./diameter of wires			
	gray	gray	gray	gray
PUR/PVC	358 – 8 × 0.34 + 2 × 0.75 mm ²	386 – 12 × 0.34 + 2 × 0.75 mm ²	395 – 16 × 0.34 + 2 × 0.75 mm ²	412 – 20 × 0.34 + 2 × 0.75 mm ²
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3 Cable Length				
3.0 m	0300			
5.0 m	0500			
10.0 m	1000			
15.0 m	1500			
Technical Data				
Operating voltage	24 V DC			
Total current	max. 10 A			
Protection	IP65, IP67			
Temperature range	-20...+80 °C, depending on cable quality			
Contact Layout				
Contact 1	(+) / (S2)			
Contact 2	(NC) / (S1)			
Contact 3	(-)			
Contact 4	(NO) / (S1)			
LED display	LED (green): power / LED (yellow): (S1) / LED (white): signal (S2)			
Article No.				
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 8 0 0 0 – ----- – ----- – ----- </div>			
	1 Form	2 Cable Type	3 Cable Length	
Notes				

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

- with molded homerun cable
- inline face or side mounting



Exact8
4-way



Exact8
6-way



Exact8
8-way



Exact8
10-way



1 Form	84111	86111	88111	80111									
Type	NPN, 4-pole	NPN, 4-pole	NPN, 4-pole	NPN, 4-pole									
Contact layout	<p>M8-Females 4-pole</p> <p>4 (S1) 2 (S2) 3 (-) 1 (+)</p> <p>for 2 signals per port</p>												
2 Cable Type	Jacket Color – No./diameter of wires												
	gray	gray	gray	gray									
PUR/PVC	358 – 8 × 0.34 + 2 × 0.75 mm ²	386 – 12 × 0.34 + 2 × 0.75 mm ²	395 – 16 × 0.34 + 2 × 0.75 mm ²	412 – 20 × 0.34 + 2 × 0.75 mm ²									
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8	0	0	0	0	-	-	-	-					
	1 Form		2 Cable Type		3 Cable Length								
Notes													

M8 DISTRIBUTION SYSTEMS

stay connected

For sensors and actuators

– Base modules

– inline face or side mounting



Exact8

4-way



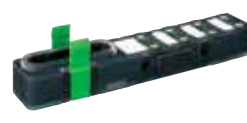
Exact8

6-way



Exact8

8-way



Exact8

10-way

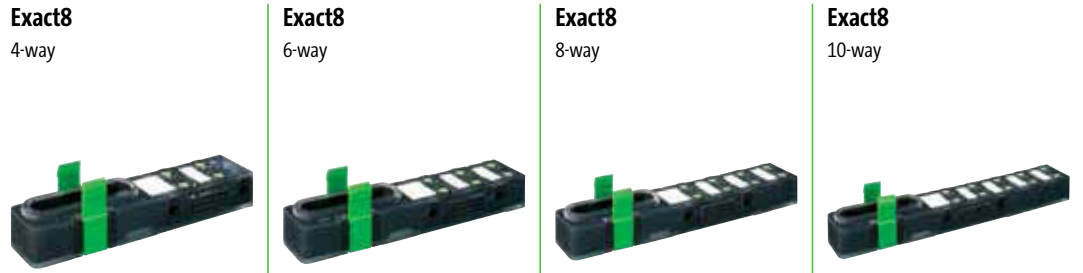


1 Form	84000	86000	88000	80000
Type	PNP, 3-pole	PNP, 3-pole	PNP, 3-pole	PNP, 3-pole
Contact layout	<p>M8-Females 3-pole</p> <p>for 1 signal per port</p>			
Technical Data				
Operating voltage	24 V DC			
Operating current per contact	max. 2 A			
Total current	max. 8 A			
Protection	IP65, IP67			
Temperature range	-20...+70 °C, depending on cable quality			
Contact Layout				
Contact 1	(+)			
Contact 3	(-)			
Contact 4	(NO)/(S1)			
LED display	LED (green): power / LED (yellow): (S1)			
Article No.				
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	1 Form			
Notes				

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

- Base modules
- inline face or side mounting



1 Form	84001	86001	88001	80001
Type	NPN, 3-pole	NPN, 3-pole	NPN, 3-pole	NPN, 3-pole
Contact layout	<p>M8-Females 3-pole</p> <p>4 (N/O)</p> <p>3 (-) 1 (+)</p> <p>for 1 signal per port</p>			
Technical Data				
Operating voltage	24 V DC			
Operating current per contact	max. 2 A			
Total current	max. 8 A			
Protection	IP65, IP67			
Temperature range	-20...+70 °C, depending on cable quality			
Contact Layout				
Contact 1	(+)			
Contact 3	(-)			
Contact 4	(NO)/(S1)			
LED display	LED (green): power / LED (yellow): (S1)			
Article No.				
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	1 Form			
Notes				

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

– Base modules

– inline face or side mounting



Exact8

4-way



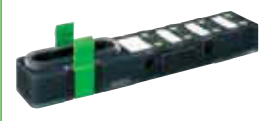
Exact8

6-way



Exact8

8-way




1 Form	84100	86100	88100
Type	PNP, 4-pole	PNP, 4-pole	PNP, 4-pole
Contact layout	<p>M8 Females 4-pole</p> <p>4 (S1) 2 (S2) 3 (-) 1 (+)</p> <p>for 2 signals per port</p>	<p>M8-Females 4-pole</p> <p>4 (S1) 2 (S2) 3 (-) 1 (+)</p> <p>for 2 signals per port</p>	
Technical Data			
Operating voltage	24 V DC		
Operating current per contact	max. 2 A		
Total current	max. 8 A		
Protection	IP65, IP67		
Temperature range	-20...+70 °C, depending on cable quality		
Contact Layout			
Contact 1	(+)		
Contact 2	(NC)/(S2)		
Contact 3	(-)		
Contact 4	(NO)/(S1)		
LED display	LED (green): power / LED (yellow): (S1) / LED (white): signal (S2)		
Article No.			
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	1 Form		
Notes			

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

– Field-wireable (pluggable spring clamp terminals)

Approvals: 

Exact8

Connection cap short



Exact8

Connection cap long



1 Form

84949

80949

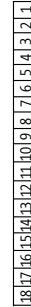
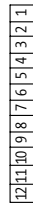
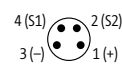
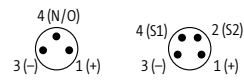
Type for 4-way distribution box, 3-/4-pole, for 4...10-way, 3-pole

6-, and 8-way distribution box, 4-pole

Contact layout

M8-Females 3-pole/4-pole

M8-Females 4-pole



Technical Data

Total current	max. 8 A
Housing	Plastic, flame retardant
Temperature range	-20...+80 °C

Article No.

The composition of your article number is explained on page 3.1.i

8 0 0 0

- - - - -

0 0 0

0 0 0 0

1 Form

Notes

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

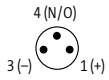

- with homerun cable
- with pluggable spring clamp terminals



Exact8

Connection cap short



1 Form	84049	86049	88049	80049
Type	for 4-way distribution box, 3-pole	for 6-way distribution box, 3-pole	for 8-way distribution box, 3-pole	for 10-way distribution box, 3-pole
Contact layout	M8-Females 3-pole  			
2 Cable Type	Jacket Color – No./diameter of wires			
	gray	gray	gray	gray
PUR/PVC	337 – 4 × 0.34 + 2 × 0.75 mm ²	350 – 6 × 0.34 + 2 × 0.75 mm ²	357 – 8 × 0.34 + 2 × 0.75 mm ²	385 – 10 × 0.34 + 2 × 0.75 mm ²
PUR (UL/CSA)	334 – 4 × 0.34 + 2 × 0.75 mm ²	356 – 6 × 0.34 + 2 × 0.75 mm ²	359 – 8 × 0.34 + 2 × 0.75 mm ²	384 – 10 × 0.34 + 2 × 0.75 mm ²
3 Cable Length				
3.0 m	0300			
5.0 m	0500			
10.0 m	1000			
15.0 m	1500			
Technical Data				
Temperature range	-20...+80 °C, depending on cable quality			
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	1	2	3	
	Form	Cable Type	Cable Length	
Notes				

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

- with homerun cable
- with pluggable spring clamp terminals



Exact8

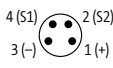
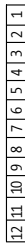
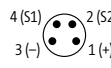
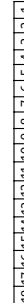
Connection cap short



Exact8

Connection cap long



1 Form	84149	86149	88149
Type	for 4-way distribution box, 4-pole	for 6-way distribution box, 4-pole	for 8-way distribution box, 4-pole
Contact layout	M8-Females 4-pole 4 (S1) 2 (S2) 3 (-) 1 (+)  	M8-Females 4-pole 4 (S1) 2 (S2) 3 (-) 1 (+)  	
2 Cable Type	Jacket Color – No./diameter of wires		
	gray	gray	gray
PUR/PVC	358 – 8 × 0.34 + 2 × 0.75 mm ²	386 – 12 × 0.34 + 2 × 0.75 mm ²	395 – 16 × 0.34 + 2 × 0.75 mm ²
PUR (UL/CSA)	360 – 8 × 0.34 + 2 × 0.75 mm ²	389 – 12 × 0.34 + 2 × 0.75 mm ²	396 – 16 × 0.34 + 2 × 0.75 mm ²
3 Cable Length			
3.0 m	0300		
5.0 m	0500		
10.0 m	1000		
15.0 m	1500		
Technical Data			
Temperature range	-20...+80 °C, depending on cable quality		
Article No.			
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	1 Form	2 Cable Type	3 Cable Length
Notes			

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

– Sets (basic module and cap)

– inline face or side mounting

Exact8

4-way



Exact8

6-way



Exact8

8-way



Exact8

10-way



Approvals:

1 Form	84040	86040	88040	80040								
Type	3-pole	3-pole	3-pole	3-pole								
Contact layout	<p>M8-Females 3-pole</p> <p>for 1 signal per port</p>											
2 Cable Type	<p>Jacket Color – No./diameter of wires</p> <table border="1"> <thead> <tr> <th>gray</th> <th>gray</th> <th>gray</th> <th>gray</th> </tr> </thead> <tbody> <tr> <td>334 – 4 × 0.34 + 2 × 0.75 mm²</td> <td>356 – 6 × 0.34 + 2 × 0.75 mm²</td> <td>359 – 8 × 0.34 + 2 × 0.75 mm²</td> <td>384 – 10 × 0.34 + 2 × 0.75 mm²</td> </tr> </tbody> </table>				gray	gray	gray	gray	334 – 4 × 0.34 + 2 × 0.75 mm ²	356 – 6 × 0.34 + 2 × 0.75 mm ²	359 – 8 × 0.34 + 2 × 0.75 mm ²	384 – 10 × 0.34 + 2 × 0.75 mm ²
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Protection	IP65, IP67											
Temperature range	-20...+80 °C, depending on cable quality											
Contact Layout	<table border="1"> <tbody> <tr> <td>Contact 1</td> <td>(+)</td> </tr> <tr> <td>Contact 3</td> <td>(-)</td> </tr> <tr> <td>Contact 4</td> <td>(NO)/(S1)</td> </tr> <tr> <td>LED display</td> <td>LED (green): power / LED (yellow): (S1)</td> </tr> </tbody> </table>				Contact 1	(+)	Contact 3	(-)	Contact 4	(NO)/(S1)	LED display	LED (green): power / LED (yellow): (S1)
Contact 1	(+)											
Contact 3	(-)											
Contact 4	(NO)/(S1)											
LED display	LED (green): power / LED (yellow): (S1)											
Article No.	<p>The composition of your article number is explained on page 3.1.i</p> <p>8 0 0 0 – – – – –</p>											
	1 Form	2 Cable Type	3 Cable Length									
Notes												

M8 DISTRIBUTION SYSTEMS

For sensors

- M12 plug connection
- 12-pole
- inline face or side mounting



Exact8
4-way



Exact8
6-way



Exact8
8-way



Exact8
10-way



1 Form	84060	86060	88060	80060
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Type	3-pole	3-pole	3-pole	3-pole
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Contact layout	<p>for 1 signal per port</p>			
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Technical Data

Operating voltage	24 V DC
Operating current per contact	max. 1.5 A
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Housing	Plastic, flame retardant
Temperature range	-20...+70 °C, depending on cable quality

Contact Layout

Contact 1	(+)
Contact 3	(-)
Contact 4	(NO)/(S1)
LED display	LED (green): power / LED (yellow): (S1)

Article No.

The composition of your article number is explained on page 3.1.i	8 0 0 0 - - - - - - - - - - 0 0 0 0 0 0 0
	1 Form

Notes

M8 DISTRIBUTION SYSTEMS

For sensors

- M12 plug connection
- 12-pole
- inline face or side mounting

Approvals:  

Exact8

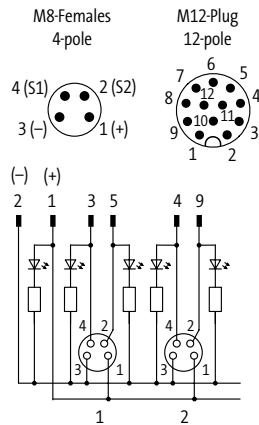
4-way



1 Form 84160

Type 4-pole

Contact layout



for 2 signals per port

Technical Data

Operating voltage	24 V DC
Operating current per contact	max. 1.5 A
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Housing	Plastic, flame retardant
Temperature range	-20...+70 °C, depending on cable quality

Contact Layout

Contact 1	(+)
Contact 2	(NC)/(S2)
Contact 3	(-)
Contact 4	(NO)/(S1)
LED display	LED (green): power / LED (yellow): (S1) / LED (white): signal (S2)

Article No.

The composition of your article number is explained on page 3.1.i	<u>8</u> <u>0</u> <u>0</u> <u>0</u> - <u>8</u> <u>4</u> <u>1</u> <u>6</u> <u>0</u> - <u>0</u> <u>0</u> <u>0</u> <u>0</u>
	1 Form

Notes

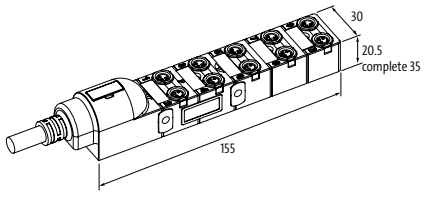
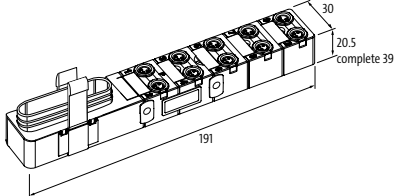
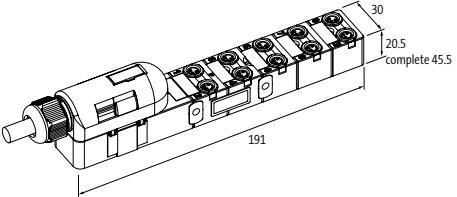
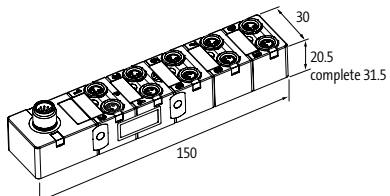
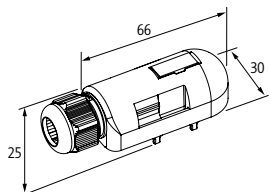
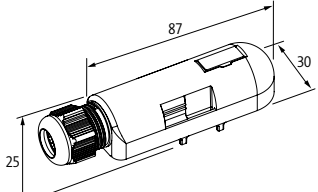
M8 DISTRIBUTION SYSTEMS

Plug accessories			Art-No.
	Torque wrench set M8 (0.4 Nm, AF9)		7000-99101-0000000
	Screw plug M8 x 1 mm (for female) Plastic, hex	Quantity: 10 pcs.	3858627
	Adapter M8/M12 3-pole 4-pole	M8 Distribution Systems M8 Distribution Systems	7000-88521-0000000 7000-88531-0000000
	Label plates KES 20 x 8 (white)	(10 pieces/2 plates)	996067
	T-coupler (Nano) M8 - M8 Distribution function (NO)	M8 distribution systems, 4-pole	7000-88602-0000000
	Screw plug M12 x 1 mm (for male) Plastic	Quantity: 4 pcs.	56951
Homerun cable accessories			Art-No.
	Connection cap short Spring clamp terminals, 12-pole	4-way distribution box, 3-/4-pole, 4...10-way, 3-pole Cable diameter (7.4...13 mm)	8000-84949-0000000
	Connection cap long Spring clamp terminals, 18-pole	6-, and 8-way distribution box, 4-pole Cable diameter (7.4...13 mm)	8000-80949-0000000
	Cable rings (50 m), 3-pole, PUR/PVC 4x0.34 + 2x0.75 mm ² 4x0.34 + 2x0.75 mm ²	4-way distribution boxes M8 4-way distribution boxes M8	8000-00000-3375000 8000-00000-3345000

M8 DISTRIBUTION SYSTEMS

Homerun cable accessories			Art-No.
	Cable rings (50 m), 3-pole, PUR/PVC $6 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	6-way distribution boxes M8	8000-00000-3505000
	$6 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	6-way distribution boxes M8	8000-00000-3565000
	Cable rings (50 m), 3-pole, PUR/PVC $8 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	8-way distribution boxes M8	8000-00000-3575000
	$8 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	8-way distribution boxes M8	8000-00000-3595000
	Cable rings (50 m), 3-pole, PUR/PVC $10 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	10-way distribution boxes M8	8000-00000-3855000
	$10 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	10-way distribution boxes M8	8000-00000-3845000
	Cable rings (50 m), 4-pole, PUR/PVC $8 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	4-way distribution boxes M8	8000-00000-3585000
	$8 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	4-way distribution boxes M8	8000-00000-3605000
	Cable rings (50 m), 4-pole, PUR/PVC $12 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	6-way distribution boxes M8	8000-00000-3865000
	$12 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	6-way distribution boxes M8	8000-00000-3895000
	Cable rings (50 m), 4-pole, PUR/PVC $16 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	8-way distribution boxes M8	8000-00000-3955000
	$16 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	8-way distribution boxes M8	8000-00000-3965000
	Cable rings (50 m), 4-pole, PUR (UL/CSA), halogen free $20 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	10-way distribution boxes M8	8000-00000-4115000
	$20 \times 0.34 + 2 \times 0.75 \text{ mm}^2$	10-way distribution boxes M8	8000-00000-4125000

M8 Distribution Systems Technical Data

	Description Exact8 Molded homerun cable	4-way 96 mm	6-way 109 mm	8-way 132 mm	10-way 155 mm
	Description Exact8 Basic module 3-pole Basic module 4-pole	4-way 132 mm 132 mm	6-way 145 mm 166 mm	8-way 168 mm 189 mm	10-way 191 mm –
	Description Exact8 Sets 3-pole Sets 4-pole	4-way 132 mm 132 mm	6-way 145 mm 166 mm	8-way 168 mm 189 mm	10-way 191 mm –
	Description Exact8 M12 plug connection	4-way 91,5 mm	6-way 104 mm	8-way 127 mm	10-way 150 mm
	Description Exact8 Short connection cap				
	Description Exact8 Long connection cap				