

Series A

Specifications

Regulations: DIN VDE 0627, DIN VDE 0110, DIN EN 61 984

Approvals: UR, CSA, SEV, MEIE, EZÚ, GOST

Number of poles: 3, 4, 10, 16, 32 (2 x 16) + PE

Electrical data acc. to DIN EN 61 984:

A3/A4 10 A 230 / 400 V 4 kV 3

Rated current _____

Rated voltage conductor - earth _____

Rated voltage conductor - conductor _____

Rated surge _____

Pollution degree _____

or 10 A 250 V 4 kV 3

A 10 / A 16 16 A 250 V 4 kV 3

Rated current _____

Rated voltage _____

Rated surge _____

Pollution degree _____

Pollution degree 2 also 16 A 230 / 400 V 4 kV 2

Rated voltage acc. to UL/CSA: 600 V

Material: Glass-fibre reinforced polyamide

Temperature range: - 40 °C up to + 125 °C

Flame class rating acc. to UL 94: V 0

Mechanical operating life mating cycles: > 500

Contacts

Material: copper alloy

Surface - hard silver plated: 3 µm Ag

- hard gold plated: 2 µm Au over 3 µm Ni

Contact resistance: < 1 m Ω

A 10, A 16:

Crimp type terminal mm² (AWG): 0,5 - 4.0 mm² (20-12 AWG)

Screw type terminal mm² (AWG): 2,5 mm² (14 AWG)

A 3 / A 4:

Only screw type mm² (AWG): 1,5 mm² (16 AWG)

Torque/testing torque: A 3 and A 4: 0,25 Nm

A 10 and A 16: 0,5 Nm

Plastic housings A 3 / A 4

Material: Glass-fibre reinforced polyamide

Locking levers: Polyamide

Flame class rating acc. to UL 94: V 0

Housing seal: NBR

Temperature range: - 40 °C up to + 125 °C

Protection degree acc. to DIN EN 60 529 in closed position: IP 44, IP 65¹⁾

Metal housings

Material A 3 up to A 32: Die-cast aluminium

Surface: Powder-coated

Locking levers: Zinc-plated steel

Housing seal: NBR

Temperature range: - 40 °C up to + 125 °C

Protection degree acc. to DIN EN 60 529 in closed position:

- A 3 and A 4: IP 44

- A 10, A 16 and A 32: IP 65¹⁾

Application hint

Heavy duty connectors are electrical devices which under proper use - under load - should not be inserted or separated.

Page

A 3 pole + PE

Inserts 14

- Short overview see page 86 -
- Matching housings see page 87 - 88 -



A 4 pole + PE

Inserts 15

- Short overview see page 86 -
- Matching housings see page 87 - 88 -



A 10 pole + PE

Inserts 16

- Short overview see page 90 -
- Matching housings see page 91 - 92 -



A 16 pole + PE

Inserts 17

- Short overview see page 94 -
- Matching housings s. page 95 - 96 -



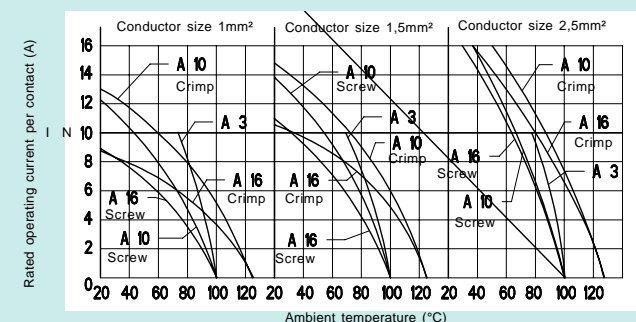
A 32 pole + PE

Inserts 18


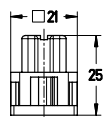

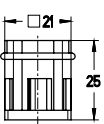



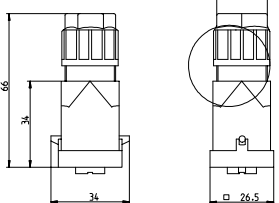

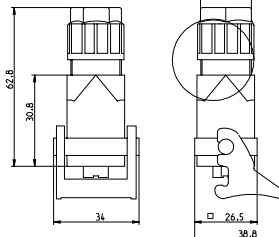
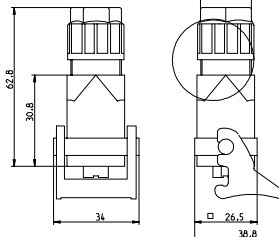
- Short overview see page 98 -
- Matching housings s. page 99 - 101 -



The derating diagram (corrected current capacity curve) acc. to DIN/IEC 512 applies to such on ambient temperature and conductor size - circulate through each contact without exceeding the upper limiting temperature. current which can - depending

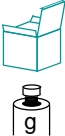
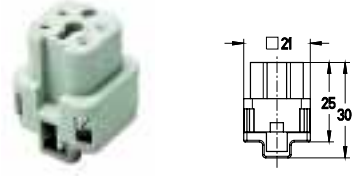
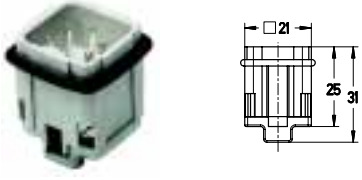








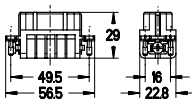

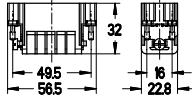

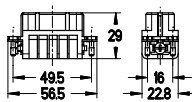

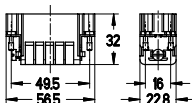
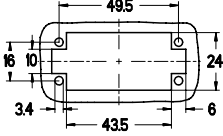
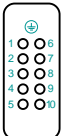
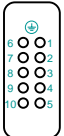


¹⁾ = IP 65 with sealing screw 700 728




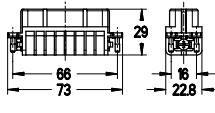

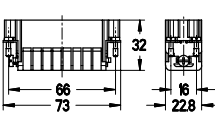

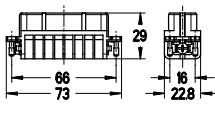

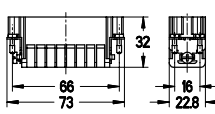
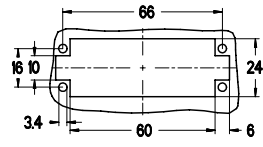

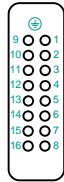


Description	Part No.		Series A 3 P + ⊕ 10 A / 230/400 V UL/CSA: 600 V	 9	EAN-No. 4015609...
Screw terminal inserts					
Female inserts screw terminal without wire protection 0,5-1,5 mm ² (20-16 AWG)	700 103			10 14	025428
Male inserts screw terminal without wire protection 0,5-1,5 mm ² (20-16 AWG)	700 203			10 14	025497
Contact arrangement					
B: Female insert S: Male insert	view from termination side <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> B  </div> <div style="text-align: center;"> S  </div> </div>				
Connectors with insulation displacement technique NEW					
Hood with female insert Height 66 mm for single locking system	700 724			10 25	426812
Hood with male insert Height 66 mm for single locking system	700 725			25	426829
Coupler hood with female insert Height 63 mm with single locking system	700 726			28	426805
Coupler hood with male insert Height 63 mm with single locking system	700 727			28	426799

Specifications of insulation displacement connectors:

General: Key width of sleeve nut 19 mm Torque of sleeve nut 3 Nm Mating cycles ≥500 Cables for insulation displacement technique: Conductor size: 0,75 - 1,5 mm ² / 18 - 16 AWG Stranded cable / smallest wire diameter: VDE 0295 class 2 up to 5 / 0,2 mm Core insulating material: PVC/PE External cable diameter: 6 - 12 mm Wire diameter (incl. isolation) ≤ 3	Mechanical data: Frequency of connection of cables with equal diameter: 10 Material: Contact material / contact surface: copper alloy / nickel base coat, silver-plated Insulating material / flammability acc. to UL 94: PA / V0 Approvals: UL/CSA, VDE-approval is applied for
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Description	Part No.	Series A 4 P + ⚡ 10 A / 230/400 V UL/CSA: 600 V		EAN-No. 4015609...		
Screw terminal inserts						
Female insert screw terminal without wire protection 0,5-1,5 mm ² (20-16 AWG)	700 104		10 17	025435		
Male insert screw terminal without wire protection 0,5-1,5 mm ² (20-16 AWG)	700 204		10 18	025503		
Contact arrangement						
B: Female insert S: Male insert		view from termination side <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> B  </div> <div style="text-align: center;"> S  </div> </div>				

Description	Part No.		Series A 10 P +  16 A / 250 V UL/CSA: 600 V	 	EAN-No. 4015609...																														
Screw terminal inserts																																			
Female inserts screw terminal with wire protection 0,5-2,5 mm ² (20-14 AWG)	700 110		 	10 46	025442																														
Male inserts screw terminal with wire protection 0,5-2,5 mm ² (20-14 AWG)	700 210		 	10 47	025510																														
Crimp contact carriers																																			
Contact carrier for sleeve contacts	700 310		 	10 26	025565																														
Please order crimp contacts separately																																			
Contact carrier for pin contacts	700 410		 	10 27	025619																														
Please order crimp contacts separately																																			
Contact arrangement B: Female inserts S: Male inserts			panel cut out view from termination side B S   																																
Contacts																																			
Sleeve contacts B crimp-type solid, drilled weight per 100	silver-plated 710 504 710 500 710 501 710 502 710 503	gold-plated 710 842 710 843 710 844 710 845 710 846	 <table border="1" data-bbox="917 1556 1276 1769"> <thead> <tr> <th>n</th> <th colspan="2">conductor size marked by n-grooves</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0,5 mm²</td> <td>20 AWG</td> <td>160</td> <td>027583</td> </tr> <tr> <td>1</td> <td>0,75 - 1 mm²</td> <td>18 AWG</td> <td>171</td> <td>027545</td> </tr> <tr> <td>2</td> <td>1,5 mm²</td> <td>16 AWG</td> <td>173</td> <td>027552</td> </tr> <tr> <td>3</td> <td>2,5 mm²</td> <td>14 AWG</td> <td>168</td> <td>027569</td> </tr> <tr> <td>0</td> <td>4,0 mm²</td> <td>12 AWG</td> <td>163</td> <td>027576</td> </tr> </tbody> </table>	n	conductor size marked by n-grooves				0	0,5 mm ²	20 AWG	160	027583	1	0,75 - 1 mm ²	18 AWG	171	027545	2	1,5 mm ²	16 AWG	173	027552	3	2,5 mm ²	14 AWG	168	027569	0	4,0 mm ²	12 AWG	163	027576	100 160 171 173 168 163	027583 027545 027552 027569 027576
n	conductor size marked by n-grooves																																		
0	0,5 mm ²	20 AWG	160	027583																															
1	0,75 - 1 mm ²	18 AWG	171	027545																															
2	1,5 mm ²	16 AWG	173	027552																															
3	2,5 mm ²	14 AWG	168	027569																															
0	4,0 mm ²	12 AWG	163	027576																															
Pin contacts B crimp-type solid, drilled weight per 100	silver-plated 710 514 710 510 710 511 710 512 710 513	gold-plated 710 847 710 848 710 849 710 850 710 851	 <table border="1" data-bbox="917 1780 1276 1928"> <thead> <tr> <th>n</th> <th colspan="2">conductor size marked by n-grooves</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0,5 mm²</td> <td>20 AWG</td> <td>130</td> <td>027637</td> </tr> <tr> <td>1</td> <td>0,75 - 1 mm²</td> <td>18 AWG</td> <td>124</td> <td>027590</td> </tr> <tr> <td>2</td> <td>1,5 mm²</td> <td>16 AWG</td> <td>128</td> <td>027606</td> </tr> <tr> <td>3</td> <td>2,5 mm²</td> <td>14 AWG</td> <td>129</td> <td>027613</td> </tr> <tr> <td>0</td> <td>4,0 mm²</td> <td>12 AWG</td> <td>125</td> <td>027620</td> </tr> </tbody> </table>	n	conductor size marked by n-grooves				0	0,5 mm ²	20 AWG	130	027637	1	0,75 - 1 mm ²	18 AWG	124	027590	2	1,5 mm ²	16 AWG	128	027606	3	2,5 mm ²	14 AWG	129	027613	0	4,0 mm ²	12 AWG	125	027620	100 130 124 128 129 125	027637 027590 027606 027613 027620
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2	1,5 mm ²	16 AWG	128	027606																															
3	2,5 mm ²	14 AWG	129	027613																															
0	4,0 mm ²	12 AWG	125	027620																															

Description	Part No.	Series A	16 P + 	 9	EAN-No. 4015609...	
Screw terminal inserts						
Female inserts screw terminal with wire protection 0,5-2,5 mm ² (20-14 AWG)	700 116			10 65	025459	
Male inserts screw terminal with wire protection 0,5-2,5 mm ² (20-14 AWG)	700 216			10 63	025527	
Crimp contact carriers						
Contact carrier for sleeve contacts	700 316			10 32	025572	
Please order crimp contacts separately						
Contact carrier for pin contacts	700 416			10 31	025626	
Please order crimp contacts separately						
Contact arrangement						
B: Female insert S: Male insert						
		panel cut out	view from termination side			
			<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>S</p>  </div> </div>			
Contacts						
		conductor size marked by n-grooves				
Sleeve contacts B	silver-plated gold-plated		n			
crimp-type	710 504 710 842		0	0,5 mm ² 20 AWG	160	027583
solid, drilled	710 500 710 843		1	0,75 - 1 mm ² 18 AWG	171	027545
weight per 100	710 501 710 844		2	1,5 mm ² 16 AWG	173	027552
	710 502 710 845		3	2,5 mm ² 14 AWG	168	027569
	710 503 710 846		0	4,0 mm ² 12 AWG	163	027576
Pin contacts B	silver-plated gold-plated		n			
crimp-type	710 514 710 847		0	0,5 mm ² 20 AWG	130	027637
solid, drilled	710 510 710 848		1	0,75 - 1 mm ² 18 AWG	124	027590
weight per 100	710 511 710 849		2	1,5 mm ² 16 AWG	128	027606
	710 512 710 850		3	2,5 mm ² 14 AWG	129	027613
	710 513 710 851		0	4,0 mm ² 12 AWG	125	027620

Description	Part No.		Series A 32 P + 16 A / 250 V UL/CSA: 600 V	 	EAN-No. 4015609...
Screw terminal inserts					
Female inserts screw terminal with wire protection 1 - 16 700 116 0,5-2,5 mm ² (20-14 AWG) with wire protection 17 - 32 700 132 0,5-2,5 mm ² (20-14 AWG)					
Male inserts screw terminal with wire protection 1 - 16 700 216 0,5-2,5 mm ² (20-14 AWG) with wire protection 17 - 32 700 232 0,5-2,5 mm ² (20-14 AWG)			 	10 69 69	025459 025466
Crimp contact carriers					
Contact carriers for sleeve contacts 1 - 16 700 316 for sleeve contacts 17 - 32 700 332 Please order crimp contacts separately					
Contact carriers for pin contacts 1 - 16 700 416 for pin contacts 17 - 32 700 432 Please order crimp contacts separately					
Contact arrangement					
B: Female inserts S: Male insert panel cut out view from termination side 					
Contacts					
Sleeve contacts B silver-plated gold-plated crimp-type 710 504 710 842 solid, drilled 710 500 710 843 weight per 100 710 501 710 844 710 502 710 845 710 503 710 846					
 Sleeve contacts B silver-plated gold-plated crimp-type 710 514 710 847 solid, drilled 710 510 710 848 weight per 100 710 511 710 849 710 512 710 850 710 513 710 851			conductor size marked by n-grooves n 0 0,5 mm ² 20 AWG 1 0,75 - 1 mm ² 18 AWG 2 1,5 mm ² 16 AWG 3 2,5 mm ² 14 AWG 0 4,0 mm ² 12 AWG	100 160 171 173 168 163	027583 027545 027552 027569 027576