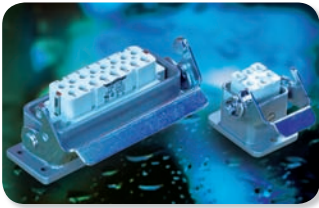
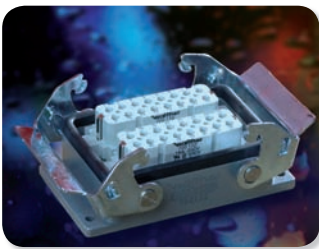


Series A 3 - A 32



Housings of series A 3 to A 16 are provided with a **single locking lever**.

Housings of series A 32 have **two locking levers**.



Series A 3 housings are available either in **plastic or zinc die-casting** - according to your requirements.



Series A 3 connectors are available **both with screw and IDC terminals**.

Series A 4 connectors, however, are **only available with screw terminals**.

Series A 5 is equipped with **crimp contacts** of series B for 16 A. The use of a coding pin prevents incorrect mating of connectors.



If necessary, the engaged crimp contacts can be released by means of a special **removal tool**.

This applies also for the series **A 10, A 16 and A 32**, which are **additionally available with screw contact carriers**.

Screw terminal inserts are equipped with a wire protection. This **wire protection** saves the time-consuming crimping of wire-end ferrules.



Of course, all WALTHER contacts are provided with **open, captive screws**.

The **convenience of IDC connection** is now also available with a classic square connector – a 4-pole (3+PE) industrial plug connector of series A.

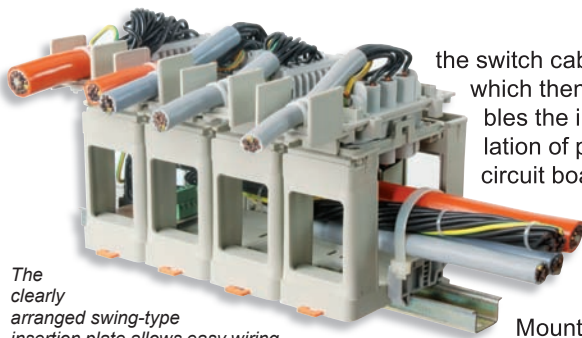
Male and female versions are available in hoods and coupler hoods made of plastic.



Thanks to **insulation displacement connection**, it now only takes a few seconds to connect the 4-pole round conductor: Only the sleeve nut has to be slid over the conductor – since splicing ring, seal and strain relief are included in the sleeve nut.

Snap-on mounting adapters

are ideal for mounting into switch cabinets.



The clearly arranged swing-type insertion plate allows easy wiring.

When installing several mounting plates side-by-side, an additional cable duct can be built up inside

the switch cabinet, which then enables the installation of printed circuit boards.

Mounting is made by snapping connectors onto DIN-rails in transverse direction.



Series A

Specifications

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

Approvals: UR, CSA, MEIE, EZÚ

Number of poles: 3, 4, 5, 10, 16, 32 (2 x 16) + PE

Electrical Data acc. to DIN EN 61 984:

Series 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

Series A5	16 A	230 / 400 V	4 kV	3
Rated current	_____			
Rated voltage conductor - earth	_____			
Rated voltage conductor - conductor	_____			
Rated surge	_____			
Pollution degree	_____			
- Pollution degree 2 also	16 A	320/500 V	4 kV	2

Series 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
(Table with rated surges see chapter "Information")

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: ≥ 500 mating cycles

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

Series A 10 / A 16:

Crimp type terminal mm² (AWG): 0.14 - 4.0 mm² (26-12 AWG)
 Screw type terminal mm² (AWG): 0.5 - 2.5 mm² (14 AWG)

Series A 3 / A 4:

only screw type mm² (AWG): 0.5 - 1.5 mm² (16 AWG)
 Torque/testing torque: A 3 and A 4: 0.25 Nm
 A 10 and A 16: 0.5 Nm

Series A 5:

only crimp terminal mm² (AWG): 0.14 - 2.5 mm² (26-14 AWG)

Wire stripping length:

Series A 3 and A 4: 5 mm
 Series A 5, A 10 and A 16: 7 mm with screw and crimping contacts

Application hint:

Industrial connectors are electrical devices which must not be connected or disconnected under load!

Page

A 3-pole + ⊕

Inserts 14

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



A 4-pole + ⊕

Inserts 15

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



A 5-pole + ⊕

Inserts 15

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



A 10-pole + ⊕

Inserts 16

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



A 16-pole + ⊕

Inserts 17

- Short overview see page 98 -
 - Matching housings see page 99 - 100 -



A 32-pole + ⊕

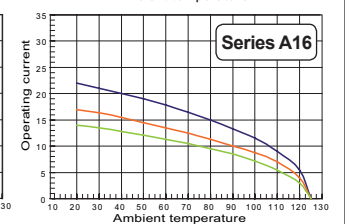
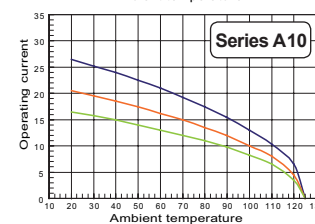
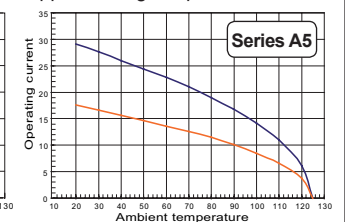
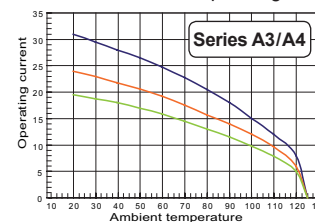
Inserts 18

- Short overview see page 102 -
 - Matching housings see page 103 - 105 -




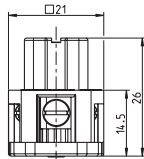

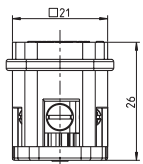
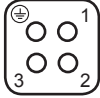
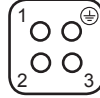

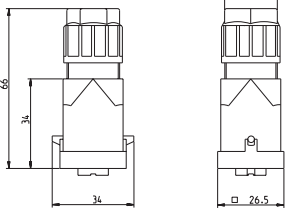





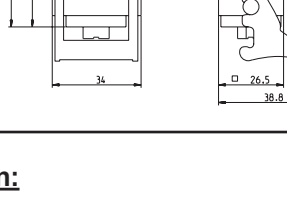


The derating diagram (corrected current capacity curve) acc. to DIN IEC 60 512 applies to such current which can - depending on

ambient temperature and conductor size - circulate through each contact without exceeding the upper limiting temperature.



— 2.5 mm² — 1.5 mm² — 1.0 mm²

Description	Part no.	Series A 3 P + \oplus 10 A / 230/400 V UL/CSA: 600 V	 
Screw terminal inserts			
Female insert Screw terminal without wire protection 0.5-1.5 mm ² (20-16 AWG)	700 103	 	10 14
Male insert Screw terminal without wire protection 0.5-1.5 mm ² (20-16 AWG)	700 203	 	10 14
Contact arrangement			
View from termination side <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Female insert  </div> <div style="text-align: center;"> Male insert  </div> </div>			
Connectors with insulation displacement connection (IDC)			
Hood with female insert Height 66 mm for single locking system	700 724	 	10 25
Hood with male insert Height 66 mm for single locking system	700 725	 	10 25
Coupler hood with female insert Height 63 mm with single locking system	700 726	 	10 28
Coupler hood with male insert Height 63 mm with single locking system	700 727	 	10 28

Specifications of connectors with insulation displacement connection:
General:

Key width of sleeve nut	19 mm
Torque of sleeve nut	3 Nm
Mating cycles	≤ 500

Cable specifications for IDC connection:





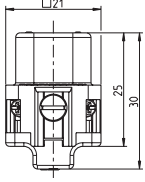
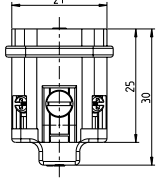








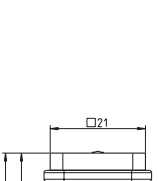
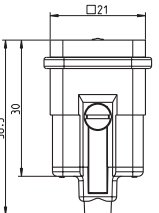



















Conductor cross section area:	0.75 - 1.5 mm ² / 18 -16 AWG
Stranded cable / smallest wire diameter:	VDE 0295 class 2 up to 5/0.2 mm
Core insulating material:	PVC/PE
External cable diameter:	6 - 12 mm
Wire diameter (incl. insulation)	≤ 3

Mechanical specifications:





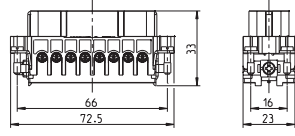

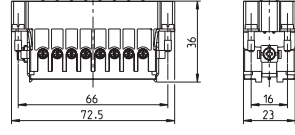

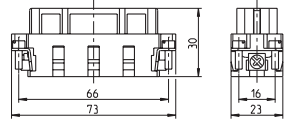

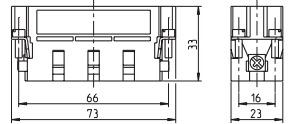
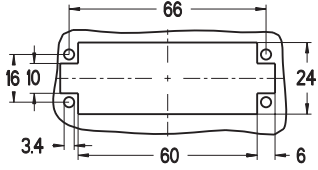
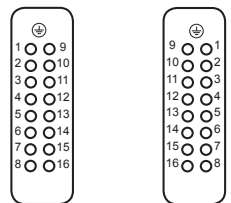
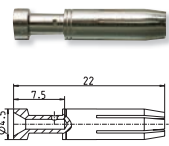
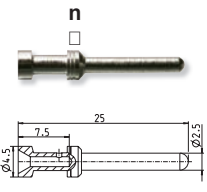

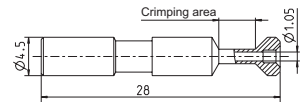

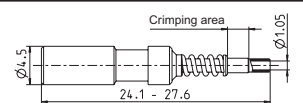

Frequency of connection of cables with equal diameter: 10

Material:

 Contact material / contact surface: Copper alloy/nickel base coat, silver-plated
 Insulating material/flammability acc. to UL 94: PA / V0
Approvals: UL/CSA

Description	Part no.	Series A	4 P + ⊕	10 A / 230/400 V UL/CSA: 600 V	  9																																		
Screw terminal inserts		   			10																																		
Female insert Screw terminal without wire protection 0.5-1.5 mm ² (20-16 AWG)					700 104	17																																	
Male insert Screw terminal without wire protection 0.5-1.5 mm ² (20-16 AWG)		700 204	10	18																																			
Contact arrangement		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Series A 4</p> <p>Female insert</p>  </div> <div style="text-align: center;"> <p>Male insert</p>  </div> <div style="text-align: center;"> <p>Series A 5</p> <p>Female insert</p>  </div> <div style="text-align: center;"> <p>Male insert</p>  </div> </div> <p style="text-align: center;">- View from termination side -</p>																																					
Description	Part no.	Series A	5 P + ⊕	16 A / 400 V UL/CSA: 600 V	  9																																		
Crimp contact carrier		   			10																																		
Contact carrier for sleeve contacts					700 105	18																																	
Contact carrier for pin contacts		700 205	10	14																																			
Coding pin	700 734	 <p>The use of a coding pin prevents confusion of equal connectors. The pin contact opposite to the coding pin is not equipped.</p>			10 1																																		
Contacts for crimp contact carriers		<table border="0"> <thead> <tr> <th>Number of grooves =</th> <th>n</th> <th colspan="2">Terminal cross section indicated by grooves</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>0</td> <td>0.14-0.37 mm²</td> <td>26-22 AWG</td> <td>100</td> </tr> <tr> <td></td> <td>0</td> <td>0.5 mm²</td> <td>20 AWG</td> <td>162</td> </tr> <tr> <td></td> <td>1</td> <td>0.75 mm²</td> <td>18 AWG</td> <td>160</td> </tr> <tr> <td></td> <td>1</td> <td>1 mm²</td> <td>18 AWG</td> <td>148</td> </tr> <tr> <td></td> <td>2</td> <td>1.5 mm²</td> <td>16 AWG</td> <td>148</td> </tr> <tr> <td></td> <td>3</td> <td>2.5 mm²</td> <td>14 AWG</td> <td>150</td> </tr> </tbody> </table>			Number of grooves =	n	Terminal cross section indicated by grooves				0	0.14-0.37 mm ²	26-22 AWG	100		0	0.5 mm ²	20 AWG	162		1	0.75 mm ²	18 AWG	160		1	1 mm ²	18 AWG	148		2	1.5 mm ²	16 AWG	148		3	2.5 mm ²	14 AWG	150
Number of grooves =	n	Terminal cross section indicated by grooves																																					
	0	0.14-0.37 mm ²	26-22 AWG	100																																			
	0	0.5 mm ²	20 AWG	162																																			
	1	0.75 mm ²	18 AWG	160																																			
	1	1 mm ²	18 AWG	148																																			
	2	1.5 mm ²	16 AWG	148																																			
	3	2.5 mm ²	14 AWG	150																																			
Sleeve contacts for series A 5		silver-plated	gold-plated																																				
	710 508		710 916																																				
	710 504		710 842																																				
crimp-type, solid, turned, weight per 100	710 509		710 917																																				
	710 500		710 843																																				
	710 501		710 844																																				
	710 502		710 845																																				
Pin contacts for series A 5		silver-plated	gold-plated																																				
	710 518		710 918		100																																		
	710 514		710 847		125																																		
crimp-type, solid, turned, weight per 100	710 519		710 919		124																																		
	710 510		710 848		128																																		
	710 511		710 849		128																																		
	710 512		710 850		132																																		
						132																																	

Description	Part no.	Series A	10 P + \oplus	16 A / 250 V UL/CSA: 600 V	 9	
Screw terminal inserts						
Female insert Screw terminal with wire protection 0.5-2.5 mm ² (20-14 AWG)	700 110				10 46	
Male insert Screw terminal with wire protection 0.5-2.5 mm ² (20-14 AWG)	700 210				10 47	
Crimp contact carrier						
Contact carrier for sleeve contacts	700 310				10 26	
Contact carrier for pin contacts	700 410				10 27	
		Please order crimp contacts separately				
Contact arrangement						
		Panel cut-out	View from termination side Female insert Male insert			
Contacts for crimp contact carriers						
Sleeve contacts for series A 10	silver-plated 710 508 710 504 710 509 crimp-type, solid, turned, weight per 100 710 500 710 501 710 502 710 503	gold-plated 710 916 710 842 710 917 710 843 710 844 710 845 710 846	Number of grooves = n 	n 0 0 1 1 2 3 0	Terminal cross section indicated by grooves 0.14-0.37 mm ² 26-22 AWG 0.5 mm ² 20 AWG 0.75 mm ² 18 AWG 1 mm ² 18 AWG 1.5 mm ² 16 AWG 2.5 mm ² 14 AWG 4.0 mm ² 12 AWG	100 162 160 148 148 150 154 165
Pin contacts for series A 10	silver-plated 710 518 710 514 710 519 crimp-type, solid, turned, weight per 100 710 510 710 511 710 512 710 513	gold-plated 710 918 710 847 710 919 710 848 710 849 710 850 710 851	n 	n 0 0 1 1 2 3 0	0.14-0.37 mm ² 26-22 AWG 0.5 mm ² 20 AWG 0.75 mm ² 18 AWG 1 mm ² 18 AWG 1.5 mm ² 16 AWG 2.5 mm ² 14 AWG 4.0 mm ² 12 AWG	100 125 124 128 128 132 132 134
Sleeve contact Optical waveguide for POF, solid, turned	710 521	Weight per 100	 POF* Ø 1 mm		100 89	
Pin contact Optical waveguide for POF, solid, turned	710 531	Weight per 100	 POF* Ø 1 mm		100 74	
Coding pin	700 734			The use of a coding pin prevents confusion of equal connectors. The pin contact opposite to the coding pin is not equipped.	10 1	

Description	Part no.	Series A	16 P + 	  g	
Screw terminal inserts					
Female insert Screw terminal with wire protection 0.5-2.5 mm ² (20-14 AWG)	700 116			10 65	
Male insert Screw terminal with wire protection 0.5-2.5 mm ² (20-14 AWG)	700 216			10 63	
Crimp contact carrier					
Contact carrier for sleeve contacts	700 316			10 32	
Contact carrier for pin contacts	700 416			10 31	
Please order crimp contacts separately					
Contact arrangement					
Panel cut-out		View from termination side Female insert Male insert			
					
Contacts for crimp contact carriers					
Sleeve contacts for series A 16	silver-plated 710 508 710 504 710 509 crimp-type, solid, turned, weight per 100 710 500 710 501 710 502 710 503	gold-plated 710 916 710 842 710 917 710 843 710 844 710 845 710 846	Number of grooves = n 	Terminal cross section indicated by grooves n 0 0.14-0.37 mm ² 26-22 AWG 0 0.5 mm ² 20 AWG 1 0.75 mm ² 18 AWG 1 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	100 162 160 148 148 150 154 165
Pin contacts for series A 16	silver-plated 710 518 710 514 710 519 crimp-type, solid, turned, weight per 100 710 510 710 511 710 512 710 513	gold-plated 710 918 710 847 710 919 710 848 710 849 710 850 710 851	n 	n 0 0.14-0.37 mm ² 26-22 AWG 0 0.5 mm ² 20 AWG 1 0.75 mm ² 18 AWG 1 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	100 125 124 128 128 132 132 134
Sleeve contact Optical waveguide for POF, solid, turned	710 521	Weight per 100			100 89
Pin contact Optical waveguide for POF, solid, turned	710 531	Weight per 100			100 74
Coding pin	700 734			The use of a coding pin prevents confusion of equal connectors. The pin contact opposite to the coding pin is not equipped.	10 1

Description	Part no.	Series A	32 P +	
			16 A / 250 V UL/CSA: 600 V	
Screw terminal inserts				
Female insert Screw terminal, 0.5-2.5 mm ² (20-14 AWG)				
with wire protection 1 - 16	700 116			10 69 69
with wire protection 17 - 32	700 132			
Male insert Screw terminal, 0.5-2.5 mm ² (20-14 AWG)				
with wire protection 1 - 16	700 216			10 64 64
with wire protection 17 - 32	700 232			
Crimp contact carrier				
Contact carriers for sleeve contacts 1 - 16				
	700 316			10 38 38
for sleeve contacts 17 - 32	700 332			
Contact carriers for pin contacts 1 - 16				
	700 416			10 36 36
for pin contacts 17 - 32	700 432			
Please order crimp contacts separately				
Contact arrangement				
Panel cut-out		View from termination side		
		Female insert	Male insert	
Contacts for crimp contact carriers				
Sleeve contacts for series A 10		silver-plated	gold-plated	
	710 508		710 916	
	710 504		710 842	
	710 509		710 917	
crimp-type, solid, turned, weight per 100	710 500		710 843	
	710 501		710 844	
	710 502		710 845	
	710 503		710 846	
Pin contacts for series A 10		silver-plated	gold-plated	
	710 518		710 918	
	710 514		710 847	
	710 519		710 919	
crimp-type, solid, turned, weight per 100	710 510		710 848	
	710 511		710 849	
	710 512		710 850	
	710 513		710 851	
Sleeve contact Optical waveguide for POF, solid, turned		710 521	Weight per 100	
Pin contact Optical waveguide for POF, solid, turned		710 531	Weight per 100	
Coding pin		700 734		
			The use of a coding pin prevents confusion of equal connectors. The pin contact opposite to the coding pin is not equipped.	