

Walther multipole heavy duty connectors series DD 24 come with single locking system, series DD 144 and DD 216 with double locking system. Series DD 42, DD 72 and DD 108 are either available with single or double locking system.



Contact carriers series DD always come with crimp-type contacts which should be ordered separately according to the relevant conductor size. The contacts are crimped with a special crimping tool and then locked into the contact carrier with an insertion tool. If required they can be released with a special removal tool.



Series DD is the economic and space-saving solution for applications in which high contact density is needed. Up to 216 contacts can be fitted. The high contact density re-quires a high wiring density. In order to ensure comfortable termination, maximum conductor sizes and optimum wiring space, Walther offers housings in higher version. Of course these housings can also be used with the other series.



We recommend using the locking levers on the firmly mountable wall mount housing or panel housing.

If the wall mount housing or panel housing shall be tightly closed with a spring cover, please use the single locking system.



Snap-on mounting adapters are ideal for mounting into switch cabinets. The swing-type, clearly arranged insertion plate allows easy wiring.



The millionfold proven crimp-type contacts guarantee a safe connection.



Instead of silver-plated or gold-plated brass contacts for copper conductors also glass fibre cable contacts out of Polymer Optical Fibre can be used in contact carriers series DD.

Series DD

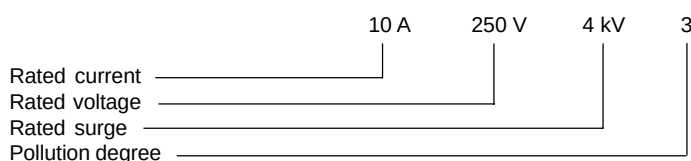
Specifications

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

Approvals: UR, EZÚ, GOST

Number of poles: 24, 42, 72, 108, 144 (2 x 72), 216 (2x108) + PE

Electrical data acc. to DIN EN 61 984:



Rated voltage acc. to UL: 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: ≤ 500
 Mating cycles: ≤ 500

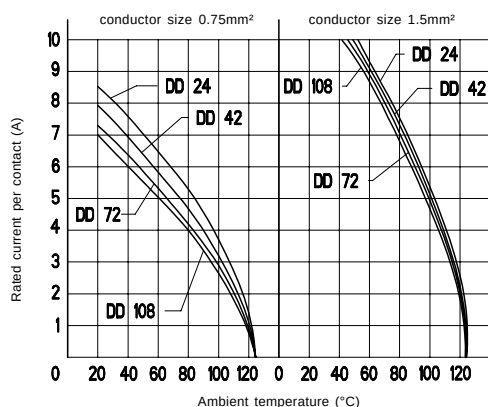
Contacts

Material: copper alloy
 Surface: - hard silver plated: 3 µm Ag
 - hard gold plated: 2 µm Au over 3 µm Ni
 Contact resistance: ≤ 3 m Ω
 Crimp terminal: 0.14 - 2.5 mm² (26 - 14) AWG
 Wire stripping length: 7 mm

Application hint:

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

The derating diagram (corrected current capacity curve) acc. to DIN IEC 60 512 applies to such kind of current which can - depending on ambient temperature and conductor size) circulate through each contact without exceeding the upper limiting temperature.



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Inserts

DD 24 pole + ⊕, DD 24 modified
 DD 12 pole + ⊕
 DD 5 pole + ⊕

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 - matching housings see p. 105 - 107 -



Inserts

DD 42 pole + ⊕, DD 42 modified
 DD 21 pole + ⊕
 DD 11 pole + ⊕

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- short overview see page 108 -
 - matching housings see p. 109 - 115 -



Inserts

DD 72 pole + ⊕, DD 72 modified
 DD 34 pole + ⊕
 DD 17 pole + ⊕

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 - matching housings see p. 117 - 124 -



Inserts

DD 108 pole + ⊕, DD 108 modified
 DD 52 pole + ⊕
 DD 26 pole + ⊕

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Inserts

DD 144 pole + ⊕, DD 144 modified
 DD 68 pole + ⊕
 DD 34.1 pole + ⊕

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 - matching housings see page 135 -



Inserts

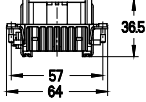
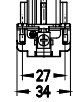
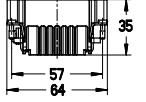
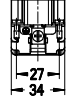
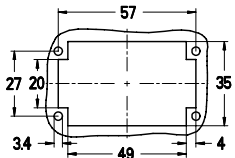
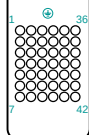
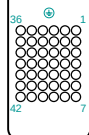
DD 216 pole + ⊕, DD 216 modified
 DD 104 pole + ⊕
 DD 52.1 pole + ⊕

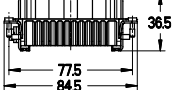
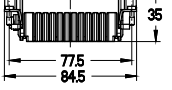
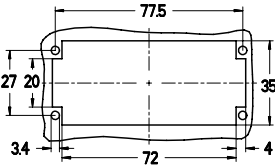
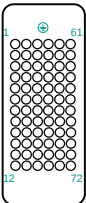
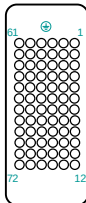
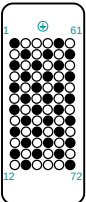
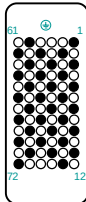
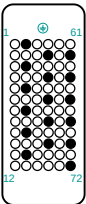
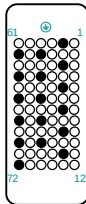
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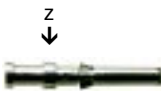
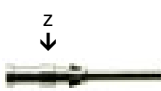
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				Series DD		24 P +					
Description		Part No.				10 A / 250 V UL/CSA: 600 V				EAN No. 4015609...	
Crimp contact carriers											
Contact carrier for sleeve contacts 750 124								10 40		149797	
- Please order crimp contacts and glass fibre cable contacts separately -											
Contact carrier for pin contacts 750 224								10 39		149858	
- Please order crimp contacts and glass fibre cable contacts separately -											
Contact arrangement											
DD 24 completely equipped with 24 contacts rated voltage: 250 V				panel cut out: 				view from termination side: female insert male insert 			
DD 24 modified: DD 12 pole +											
DD 24 equipped with 12 contacts rated voltage: 400 V											
DD 24 modified: DD 5 pole +											
DD 24 equipped with 5 contacts rated voltage: 500 V								● working contact ○ without contact			
Contacts											
Sleeve contacts D				silver-plated gold-plated				100			
crimp-type		720 506		720 686		z		65		031603	
solid, drilled		720 507		720 687		z		68		031610	
weight per 100		720 508		720 688		1 0.14 - 0.37 mm² 26 - 22 AWG		70		031627	
		720 509		720 689		2 0.5 mm² 20 AWG		72		031634	
		720 502		720 690		3 0.75 - 1 mm² 19 - 18 AWG		62		031573	
						4 1.5 mm² 16 AWG					
						5 2.5 mm² 14 AWG					
Pin contacts D				silver-plated gold-plated				100			
crimp-type		720 516		720 691		z		60		031672	
solid, drilled		720 517		720 692		z		63		031689	
weight per 100		720 518		720 693		1 0.14 - 0.37 mm² 26 - 22 AWG		65		031696	
		720 519		720 694		2 0.5 mm² 20 AWG		67		031702	
		720 512		720 695		3 0.75 - 1 mm² 19 - 18 AWG		70		031641	
						4 1.5 mm² 16 AWG					
						5 2.5 mm² 14 AWG					
Sleeve contact								100			
glass fibre cable for plastic cable		720 520		POF* Ø 1 mm				89		157839	
solid, drilled											
weight per 100											
Pin contact								100			
glass fibre cable for plastic cable		720 530		POF* Ø 1 mm				74		157846	
solid, drilled											
weight per 100											
				*POF = Polymer Optical Fibre							

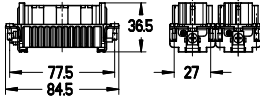
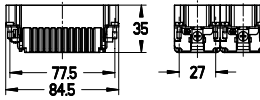
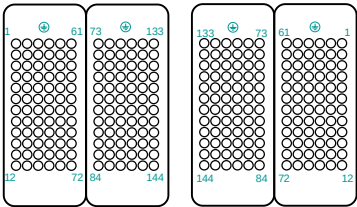
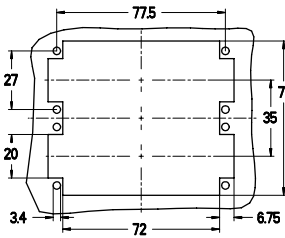
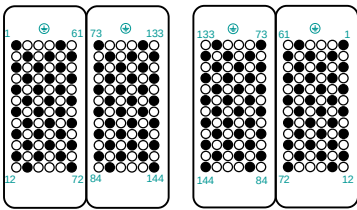
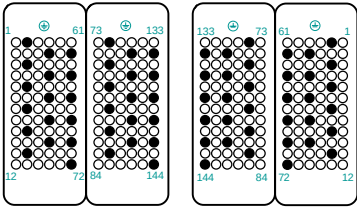
Description	Part No.	Series DD	42 P + 	 	EAN No. 4015609...
Crimp contact carriers					
Contact carrier for sleeve contacts	750 142	  			10 51 149803
- Please order crimp contacts and glass fibre cable contacts separately -					
Contact carrier for pin contacts	750 242	  			10 47 149865
- Please order crimp contacts and glass fibre cable contacts separately -					
Contact arrangement					
DD 42 completely equipped with 42 contacts rated voltage: 250 V		panel cut out:  view from termination side female insert  male insert 			
DD 42 modified: DD 21 pole + 		DD 42 equipped with 21 contacts rated voltage: 400 V			
DD 42 modified: DD 11 pole + 		DD 42 equipped with 11 contacts rated voltage: 500 V			
Contacts					
Sleeve contacts D	silver-plated gold-plated	conductor size marked by z			
crimp-type	720 506 720 686	z 			100
solid, drilled	720 507 720 687	1 0.14 - 0.37 mm ² 26 - 22 AWG			65
weight per 100	720 508 720 688	2 0.5 mm ² 20 AWG			68
	720 509 720 689	3 0.75 - 1 mm ² 19 - 18 AWG			70
	720 502 720 690	4 1.5 mm ² 16 AWG			72
		5 2.5 mm ² 14 AWG			62
Pin contacts D	silver-plated gold-plated	z 			100
crimp-type	720 516 720 691	1 0.14 - 0.37 mm ² 26 - 22 AWG			60
solid, drilled	720 517 720 692	2 0.5 mm ² 20 AWG			63
weight per 100	720 518 720 693	3 0.75 - 1 mm ² 19 - 18 AWG			65
	720 519 720 694	4 1.5 mm ² 16 AWG			67
	720 512 720 695	5 2.5 mm ² 14 AWG			70
Sleeve contact					
glass fibre cable for plastic cable	720 520	 POF* Ø 1 mm			100 89
solid, drilled					
weight per 100					157839
Pin contact					
glass fibre cable for plastic cable	720 530	 POF* Ø 1 mm			100 74
solid, drilled					
weight per 100					157846
		*POF= Polymer Optical Fibre			

Description	Part No.		Series DD 72 P +  10 A / 250 V UL/CSA: 600 V	 	EAN No. 4015609...
Crimp contact carriers					
Contact carrier for sleeve contacts 750 172 - Please order crimp contacts and glass fibre cable contacts separately -			  	10 64	149810
Contact carrier for pin contacts 750 272 - Please order crimp contacts and glass fibre cable contacts separately -			  	10 58	149872
Contact arrangement					
DD 72 completely equipped with 72 contacts rated voltage: 250 V			panel cut out:  view from termination side: female insert  male insert 		
DD 72 modified: DD 34 pole +  DD 72 equipped with 34 contacts rated voltage: 400 V			female insert  male insert 		
DD 72 modified: DD 17 pole +  DD 72 equipped with 17 contacts rated voltage: 500 V			female insert  male insert   working contact  without contact		

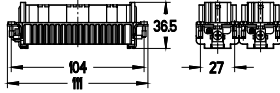
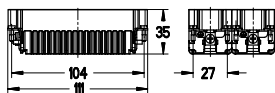
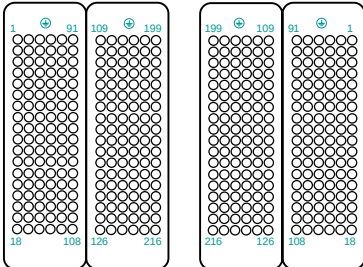
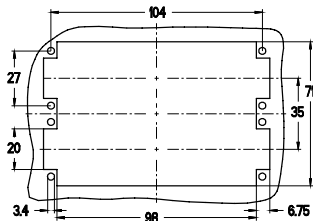
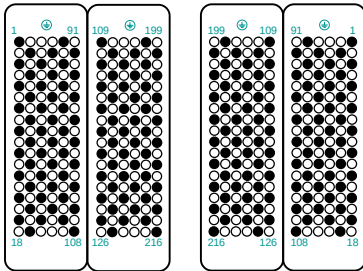
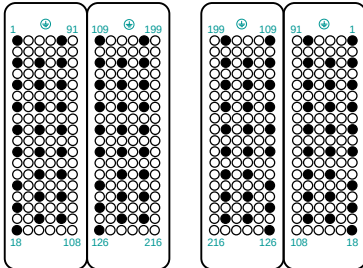
Description	Part No.		Series DD	72 P + 		EAN No. 4015609...		
			10 A / 250 V UL/CSA: 600 V					
Contacts			conductor size marked by z					
Sleeve contacts D			z		100			
	silver-plated	gold-plated						
crimp-type	720 506	720 686		1	0.14 - 0.37 mm ²	26 - 22 AWG	65	031603
solid, drilled	720 507	720 687		2	0.5 mm ²	20 AWG	68	031610
weight per 100	720 508	720 688		3	0.75 - 1 mm ²	19 - 18 AWG	70	031627
	720 509	720 689		4	1.5 mm ²	16 AWG	72	031634
	720 502	720 690		5	2.5 mm ²	14 AWG	62	031573
Pin contacts D			z		100			
	silver-plated	gold-plated						
crimp-type	720 516	720 691		1	0.14 - 0.37 mm ²	26 - 22 AWG	60	031672
solid, drilled	720 517	720 692		2	0.5 mm ²	20 AWG	63	031689
weight per 100	720 518	720 693		3	0.75 - 1 mm ²	19 - 18 AWG	65	031696
	720 519	720 694		4	1.5 mm ²	16 AWG	67	031702
	720 512	720 695		5	2.5 mm ²	14 AWG	70	031641
Sleeve contact					100			
glass fibre cable for plastic cable	720 520			POF* Ø 1 mm		89	157839	
solid, drilled								
weight per 100								
Pin contact					100			
glass fibre cable for plastic cable	720 530			POF* Ø 1 mm		74	157846	
solid, drilled								
weight per 100								
					*POF= Polymer Optical Fibre			

Description	Part No.		Series DD 108 P + 10 A / 250 V UL/CSA: 600 V	 g	EAN No. 4015609...
Crimp contact carrier			 	10 83	149827
Contact carrier for sleeve contacts 750 108 - Please order crimp contacts and glass fibre cable contacts separately -					
Contact carrier for pin contacts 750 208 - Please order crimp contacts and glass fibre cable contacts separately -			 	10 73	149889
Contact arrangement DD 108 completely equipped with 108 contacts rated voltage: 250 V			panel cut out: view from termination side: female insert male insert		
DD 108 modified: DD 52 pole + DD 108 equipped with 52 contacts rated voltage: 400 V			 		
DD 108 modified: DD 26 pole + DD 108 equipped with 26 contacts rated voltage: 500 V			 ● working contact ○ without contact		

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Description	Part No.	Series DD	144 P + 	 	EAN No. 4015609...	
Crimp contact carrier		 			10 83 83	149810 149834
Contact carriers for sleeve contacts 1 - 72 750 172 for sleeve contacts 73 - 144 750 144 - Please order crimp contacts and glass fibre cable contacts separately -						
Contact carriers for pin contacts 1 - 72 750 272 for pin contacts 73 - 144 750 244 - Please order crimp contacts and glass fibre cable contacts separately -		 			10 73 73	149872 149896
Contact arrangement		view from termination side: female insert male insert 				
DD 144 completely equipped with 144 contacts rated voltage: 250 V		panel cut out:  				
DD 144 modified: DD 68 pole + 						
DD 144 equipped with 2 x 34 contacts rated voltage: 400 V						
DD 144 modified: DD 34 pole + 						
DD 144 equipped with 2 x 17 contacts rated voltage: 500 V						
		● working contact ○ without contact				

Description	Part No.		Series DD	144 P + 	 	EAN No. 4015609...
Contacts			conductor size marked by z			
Sleeve contacts D	silver-plated	gold-plated		z 1 0.14 - 0.37 mm ² 26 - 22 AWG 2 0.5 mm ² 20 AWG 3 0.75 - 1 mm ² 19 - 18 AWG 4 1.5 mm ² 16 AWG 5 2.5 mm ² 14 AWG	100	
crimp-type	720 506	720 686			65	031603
solid, drilled	720 507	720 687			68	031610
weight per 100	720 508	720 688			70	031627
	720 509	720 689			72	031634
	720 502	720 690			62	031573
Pin contacts D	silver-plated	gold-plated		z 1 0.14 - 0.37 mm ² 26 - 22 AWG 2 0.5 mm ² 20 AWG 3 0.75 - 1 mm ² 19 - 18 AWG 4 1.5 mm ² 16 AWG 5 2.5 mm ² 14 AWG	100	
crimp-type	720 516	720 691			60	031672
solid, drilled	720 517	720 692			63	031689
weight per 100	720 518	720 693			65	031696
	720 519	720 694			67	031702
	720 512	720 695			70	031641
Sleeve contact			POF* Ø 1 mm		100	
glass fibre cable for plastic cable	720 520				89	157839
solid, drilled						
weight per 100						
Pin contact			POF* Ø 1 mm		100	
glass fibre cable for plastic cable	720 530				74	157846
solid, drilled						
weight per 100						

Description	Part No.	Series DD	216 P + 	 	EAN No. 4015609...
Crimp contact carriers		 		10 64 64	149827 149841
Contact carriers for sleeve contacts 1 - 108 750 108 for sleeve contacts 109 - 216 750 116 - Please order crimp contacts and glass fibre cable contacts separately -					
Contact carriers for pin contacts 1 - 108 750 208 for pin contacts 109 - 216 750 216 - Please order crimp contacts and glass fibre cable contacts separately -		 		10 58 58	149889 149902
Contact arrangement		view from termination side: female insert male insert  panel cut out:    ● working contact ○ without contact			
DD 216 completely equipped with 216 contacts rated voltage: 250 V					
DD 216 modified: DD 104 pole + 					
DD 216 equipped with 2 x 52 contacts rated voltage: 400 V					
DD 216 modified: DD 52.1 pole + 					
DD 216 equipped with 2 x 26 contacts rated voltage: 500 V					

Description	Part No.		Series DD	216 P + 	 	EAN No. 4015609...		
			10 A / 250 V UL/CSA: 600 V					
Contacts			conductor size marked by z					
			z		100			
Sleeve contacts D crimp-type solid, drilled weight per 100	silver-plated	gold-plated		1	0.14 - 0.37 mm ²	26 - 22 AWG	65	031603
	720 506	720 686		2	0.5 mm ²	20 AWG	68	031610
	720 507	720 687		3	0.75 - 1 mm ²	19 - 18 AWG	70	031627
	720 508	720 688		4	1.5 mm ²	16 AWG	72	031634
	720 509	720 689		5	2.5 mm ²	14 AWG	62	031573
	720 502	720 690						
Pin contacts D crimp-type solid, drilled weight per 100	silver-plated	gold-plated		1	0.14 - 0.37 mm ²	26 - 22 AWG	60	031672
	720 516	720 691		2	0.5 mm ²	20 AWG	63	031689
	720 517	720 692		3	0.75 - 1 mm ²	19 - 18 AWG	65	031696
	720 518	720 693		4	1.5 mm ²	16 AWG	67	031702
	720 519	720 694		5	2.5 mm ²	14 AWG	70	031641
	720 512	720 695						
Sleeve contact glass fibre cable for plastic cable solid, drilled weight per 100			POF* Ø 1 mm		100 89	157839		
Pin contact glass fibre cable for plastic cable solid, drilled weight per 100			POF* Ø 1 mm		100 74	157846		