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COMBICON Direct Plug Connectors ZEC 1 and ZEC 1,5 3.5 / 5.0 and 7.5 mm Pitch

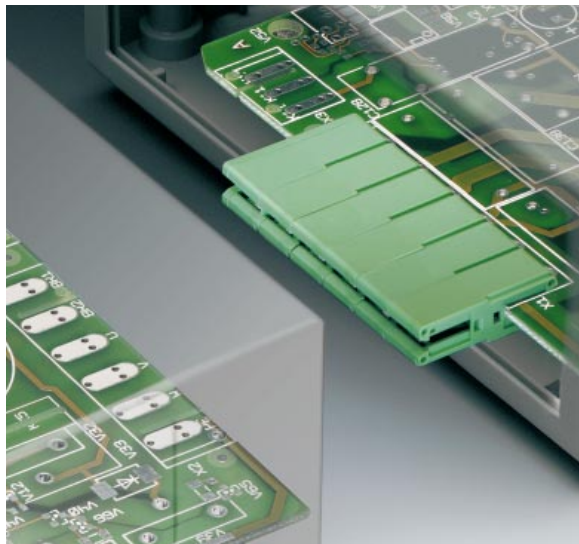
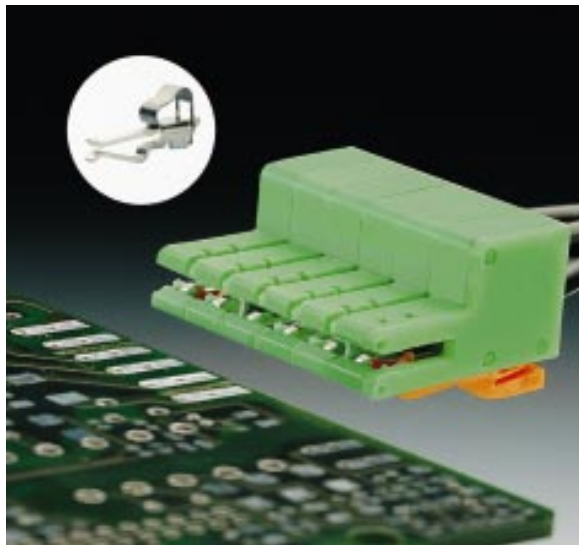
The direct plug connectors ZEC 1 and ZEC 1,5 make contact directly on the p.c.b. without the need for an extra pin strip. The plugs are simply snapped onto the pads at the edge of the 1.6 mm thick p.c.b. The plugs are available with 3.5 mm or 5 and 7.5 mm pitches and can be used for nominal voltages up to 400 V. Currents of up to 10 A can be transmitted through the solid contact springs.

The conductor connection is designed in spring-cage technology that can be accessed from the front with a screwdriver. The terminal compartment can hold solid and flexible conductors up to 1.5 mm² (1 mm² in case of 3.5 mm pitch) with and without ferrule.

To code the plug components, housings with a solid side element can be inserted at any position (standard pos. 2, individual coding on request). An appropriate slit has to be cut on the p.c.b. at this position. This combination guarantees that the plug cannot be inserted incorrectly or the poles reversed.

With the aid of two spring engagement latches, the plugs can be locked onto the p.c.b. All that is needed are two holes at the appropriate positions on the p.c.b. The plug is labeled with the self-adhesive marker cards SK 3,5/2,8, SK 5/3,8 or SK 7,5/3,8 (see COMBICON catalog).

The printed circuit board connectors are used to connect panted circuit boards to each other. If, for example, you want to connect a motor filter to a frequency converter, you simply plug it in. The external connection - i.e. the ZEC direct plug - then changes over to the auxiliary device. Mechanical forces have to be constructively absorbed via the housings of the devices.




ZEC 1,0/...-ST-3,5 3.5 mm Pitch

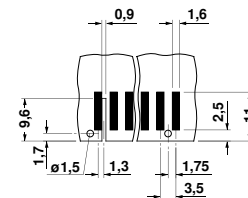
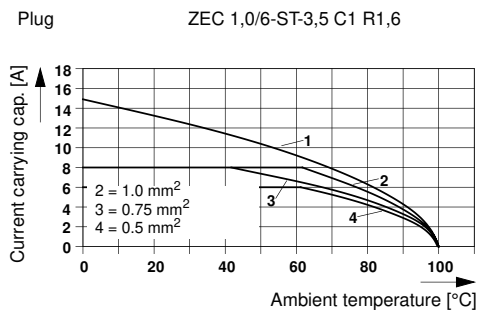


Note:

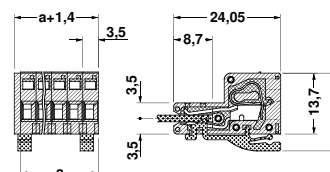
Only actuate COMBICON plug connectors when under no load condition. If for operating reasons small loads must be switched, experimental values are available upon request.

Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
Direct plug connector, 3.5 mm pitch, Color: green	2	7	ZEC 1,0/2-ST-3,5 C1 R1	18 93 68 5	50
	3	10.5	ZEC 1,0/3-ST-3,5 C1 R1,3	18 93 69 8	
	4	14	ZEC 1,0/4-ST-3,5 C1 R1,4	18 93 70 8	
	5	17.5	ZEC 1,0/5-ST-3,5 C1 R1,5	18 93 71 1	
	6	21	ZEC 1,0/6-ST-3,5 C1 R1,6	18 93 72 4	
	7	24.5	ZEC 1,0/7-ST-3,5 C1 R1,7	18 93 73 7	
	8	28	ZEC 1,0/8-ST-3,5 C1 R1,8	18 93 74 0	
	9	31.5	ZEC 1,0/9-ST-3,5 C1 R1,9	18 93 75 3	
	10	35	ZEC 1,0/10-ST-3,5 C1 R1,10	18 93 76 6	
	11	38.5	ZEC 1,0/11-ST-3,5 C1 R1,11	18 93 77 9	
	12	42	ZEC 1,0/12-ST-3,5 C1 R1,12	18 93 78 2	
(1) Screwdriver, Blade: 0.4 x 2.5 x 75 mm, Length: 160 mm,			SZF 0-0,4 x 2,5	12 04 50 4	
(2) Marker card, with 14 pcs., 10-section marker strips, white, self-adhesive, for 140 terminal blocks			SK 3,5/2,8 (see COMBICON catalog)		
Technical data					
Dimensions					
Pitch	[mm] see description 3.5				
Technical data in acc. with IEC / DIN VDE					
Insulating material group	-				
Surge voltage category / contamination class	-/- III / 3 III / 2 II / 2				
Rated voltage	[V] 160 200 320				
Rated surge voltage	[kV] 2.5 2.5 2.5				
Nominal current / cross section	[A]/[mm ²] 8 / 1 8 / 1				
Maximum load current / cross section	[A]/[mm ²] 8 / 1 8 / 1				
Capacity connection					
Solid / stranded / conductor sizes	[mm ²]/[mm ²]/AWG 0.2 - 1.0 / 0.2 - 1.0 / 24 - 16				
Stranded with ferrule without / with plastic sleeve	[mm ²] 0.34 - 1 / 0.25 - 0.75				
Stripping length	[mm] 7				
Insulating material					
Inflammability class in acc. with UL 94	PA V0				
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL: [V]/[A]/AWG 300 / 10 / 26 - 16 CSA: [V]/[A]/AWG --				

Current carrying capacity depending on the ambient temperature 1 = base curve



Size of the p.c.b.: 1.6 ±0.2 mm.



ZEC 1,0/...-LPV-3,5 3.5 mm Pitch



Note:

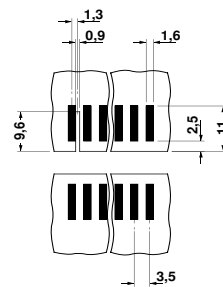
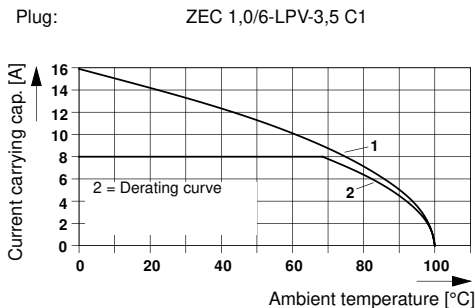
Only actuate COMBICON plug connectors when under no load condition. If for operating reasons small loads must be switched, experimental values are available upon request.

Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
P.C.B. connector, 3.5 mm pitch, Color: green	2	7	ZEC 1,0/2-LPV-3,5 C1	19 15 65 7	50
	3	10.5	ZEC 1,0/3-LPV-3,5 C1	19 15 66 0	
	4	14	ZEC 1,0/4-LPV-3,5 C1	19 15 67 3	
	5	17.5	ZEC 1,0/5-LPV-3,5 C1	19 15 68 6	
	6	21	ZEC 1,0/6-LPV-3,5 C1	19 15 69 9	
	7	24.5	ZEC 1,0/7-LPV-3,5 C1	19 15 70 9	
	8	28	ZEC 1,0/8-LPV-3,5 C1	19 15 71 2	
	9	31.5	ZEC 1,0/9-LPV-3,5 C1	19 15 72 5	
	10	35	ZEC 1,0/10-LPV-3,5 C1	19 15 73 8	
	11	38.5	ZEC 1,0/11-LPV-3,5 C1	19 15 74 1	
	12	42	ZEC 1,0/12-LPV-3,5 C1	19 15 75 4	

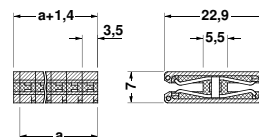
Technical data

Dimensions	see description		
Pitch	3.5		
Technical data in acc. with IEC/ DIN VDE			
Insulating material group	I		
Surge voltage category / contamination class	III / 3	III / 2	II / 2
Rated voltage [V]	160	200	320
Rated surge voltage [kV]	2.5	2.5	2.5
Nominal current / cross section [A]/[mm ²]	8 / -		
Maximum load current / cross section [A]/[mm ²]	8 / -		
Capacity connection			
Solid / stranded / conductor sizes [mm ²]/[mm ²]/AWG	--		
Stranded with ferrule without / with plastic sleeve [mm ²]	--		
Stripping length [mm]	--		
Insulating material		PA	
Inflammability class in acc. with UL 94		V0	
Approval data (UL/CUL and CSA)			
Nominal voltage / current / conductor sizes UL/CUL: [V]/[A]/AWG		--	
CSA: [V]/[A]/AWG		--	

Current carrying capacity depending on the ambient temperature
1 = base curve

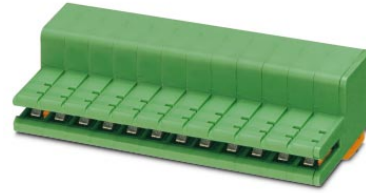


Size of the p.c.b.: 1.6 ± 0.2 mm.



ZEC 1,5/...-ST-5,0

5.0 mm Pitch



Note:

Only actuate COMBICON plug connectors when under no load condition. If for operating reasons small loads must be switched, experimental values are available upon request.

Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
Direct plug connector, 5.0 mm pitch, Color: green					
	2	10	ZEC 1,5/2-ST-5,0 C2 R 1,2	18 83 04 8	50
	3	15	ZEC 1,5/3-ST-5,0 C2 R 1,3	18 83 05 1	
	4	20	ZEC 1,5/4-ST-5,0 C2 R 1,4	18 83 06 4	
	5	25	ZEC 1,5/5-ST-5,0 C2 R 1,5	18 83 07 7	
	6	30	ZEC 1,5/6-ST-5,0 C2 R 1,6	18 83 08 0	
	7	35	ZEC 1,5/7-ST-5,0 C2 R 1,7	18 83 09 3	
	8	40	ZEC 1,5/8-ST-5,0 C2 R 1,8	18 83 10 3	
	9	45	ZEC 1,5/9-ST-5,0 C2 R 1,9	18 83 11 6	
	10	50	ZEC 1,5/10-ST-5,0 C2 R 1,10	18 83 12 9	
	11	55	ZEC 1,5/11-ST-5,0 C2 R 1,11	18 83 13 2	
	12	60	ZEC 1,5/12-ST-5,0 C2 R 1,12	18 83 80 2	

(1) **Screwdriver,**
Blade: 0.6 x 3.5 x 100 mm,
Length: 180 mm



(2) **Marker card,** with 12 pcs.,
10-section marker strips, white,
self-adhesive, for 120 terminal blocks

SZF 1-0,6 x 3,5

12 04 51 7

100

SK 5,08/3,8 (see COMBICON catalog)

Technical data

Dimensions

Pitch [mm]

see description

5

Technical data in acc. with IEC/ DIN VDE

Insulating material group

-

Surge voltage category / contamination class

-/-

Rated voltage

[V]

Rated surge voltage

[kV]

Nominal current / cross section

[A]/[mm²]

Maximum load current / cross section

[A]/[mm²]

	I	II / 2
III / 3	III / 2	II / 2
250	320	630
4	4	4
	10 / 1.5	
	10 / 1.5	

Capacity connection

Solid / stranded / conductor sizes [mm²]/[mm²]/AWG

0.2 - 1.5 / 0.2 - 1.5 / 24 - 16

Stranded with ferrule without / with plastic sleeve [mm²]

0.25 - 1.5 / 0.25 - 1.5

Stripping length [mm]

7

Internal cylindrical gauge (IEC 60 947-1)

-

A 1

Insulating material

Inflammability class in acc. with UL 94

PA

Approval data (UL/CUL and CSA)

V0

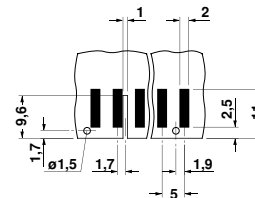
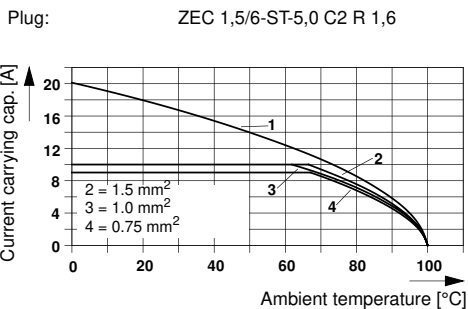
Nominal voltage / current / conductor sizes UL/CUL: [V]/[A]/AWG
CSA: [V]/[A]/AWG

300 / 10 / 26 - 16

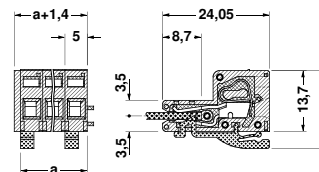
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Current carrying capacity depending on the ambient temperature

1 = base curve

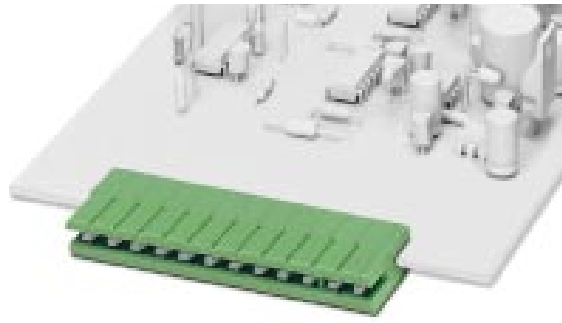


Size of the p.c.b.: 1.6 ± 0.2 mm.



ZEC 1,5/...-LPV-5,0

5.0 mm Pitch



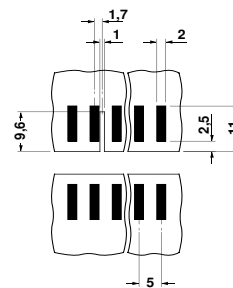
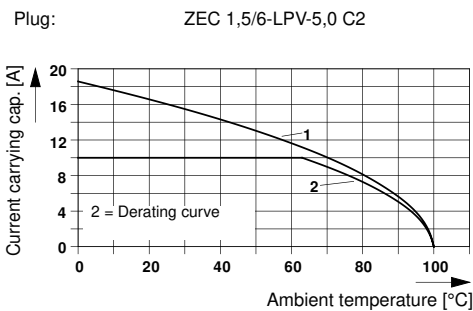
Note:

Only actuate COMBICON plug connectors when under no load condition. If for operating reasons small loads must be switched, experimental values are available upon request.

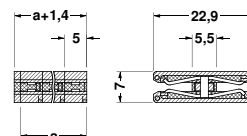
Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
P.C.B. connector, 5.0 mm pitch, Color: green	2	10	ZEC 1,5/2-LPV-5,0 C2	18 98 26 6	50
	3	15	ZEC 1,5/3-LPV-5,0 C2	18 98 27 9	
	4	20	ZEC 1,5/4-LPV-5,0 C2	18 98 28 2	
	5	25	ZEC 1,5/5-LPV-5,0 C2	18 98 29 5	
	6	30	ZEC 1,5/6-LPV-5,0 C2	18 98 30 5	
	7	35	ZEC 1,5/7-LPV-5,0 C2	18 98 31 8	
	8	40	ZEC 1,5/8-LPV-5,0 C2¹⁾	18 98 32 1	
Technical data					
Dimensions					
Pitch	[mm] see description				
5					
Technical data in acc. with IEC/ DIN VDE					
Insulating material group	-				
Surge voltage category / contamination class	-/-				
Rated voltage	[V]				
Rated surge voltage	[kV]				
Nominal current / cross section	[A]/[mm ²]				
Maximum load current / cross section	[A]/[mm ²]				
Capacity connection					
Solid / stranded / conductor sizes	[mm ²]/[mm ²]/AWG				
Stranded with ferrule without / with plastic sleeve	[mm ²]				
Stripping length					
[mm]					
Internal cylindrical gauge (IEC 60 947-1)					
-					
Insulating material					
Inflammability class in acc. with UL 94	PA				
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL: [V]/[A]/AWG				
	CSA: [V]/[A]/AWG				

¹⁾ Further numbers of positions on request.

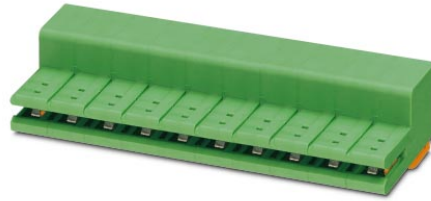
Current carrying capacity depending on the ambient temperature
1 = base curve



Size of the p.c.b.: 1.6 ± 0.2 mm.




ZEC 1,5/...-ST-7,5 7.5 mm Pitch



Note:

Only actuate COMBICON plug connectors when under no load condition. If for operating reasons small loads must be switched, experimental values are available upon request.

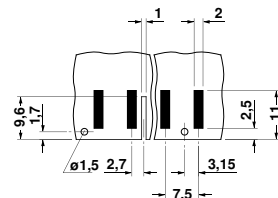
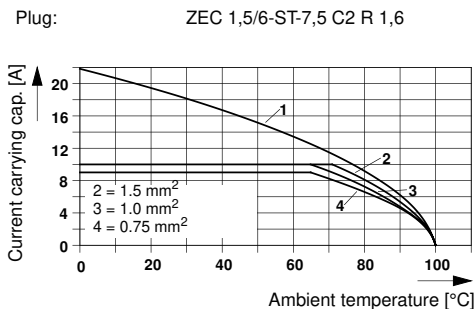
Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
Direct plug connector, 7.5 mm pitch, Color: green	2	15	ZEC 1,5/2-ST-7,5 C2 R 1,2	18 83 14 5	50
	3	22.5	ZEC 1,5/3-ST-7,5 C2 R 1,3	18 83 15 8	
	4	30	ZEC 1,5/4-ST-7,5 C2 R 1,4	18 83 16 1	
	5	37.5	ZEC 1,5/5-ST-7,5 C2 R 1,5	18 83 17 4	
	6	45	ZEC 1,5/6-ST-7,5 C2 R 1,6	18 83 18 7	
	7	52.5	ZEC 1,5/7-ST-7,5 C2 R 1,7	18 83 19 0	
	8	60	ZEC 1,5/8-ST-7,5 C2 R 1,8	18 83 20 0	
	9	67.5	ZEC 1,5/9-ST-7,5 C2 R 1,9	18 83 21 3	
	10	75	ZEC 1,5/10-ST-7,5 C2 R 1,10	18 83 22 6	
	11	82.5	ZEC 1,5/11-ST-7,5 C2 R 1,11	18 83 23 9	
	12	90	ZEC 1,5/12-ST-7,5 C2 R 1,12	18 83 24 2	
(1) Screwdriver, Blade: 0.6 x 3.5 x 100 mm, Length 180 mm			SZF 1-0,6 x 3,5	12 04 51 7	
(2) Marker card, with 12 pcs., 10-section marker strips, white, self-adhesive, for 120 terminal blocks			SK 7,5/3,8 (see COMBICON catalog)		

Technical data

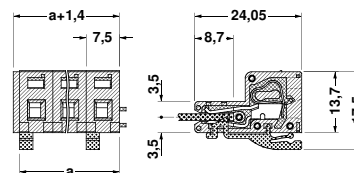
Dimensions	see description		
Pitch	7.5		
Technical data in acc. with IEC/ DIN VDE			
Insulating material group	I		
Surge voltage category / contamination class	III / 3	III / 2	II / 2
Rated voltage [V]	400	630	1000
Rated surge voltage [kV]	6	6	6
Nominal current / cross section [A]/[mm ²]	10 / 1.5		
Maximum load current / cross section [A]/[mm ²]	10 / 1.5		
Capacity connection			
Solid / stranded / conductor sizes [mm ²]/[mm ²]/AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrule without / with plastic sleeve [mm ²]	0.25 - 1.5 / 0.25 - 1.5		
Stripping length [mm]	7		
Internal cylindrical gauge (IEC 60 947-1)	A 1		
Insulating material	PA		
Inflammability class in acc. with UL 94	V0		
Approval data (UL/CUL and CSA)			
Nominal voltage / current / conductor sizes	UL/CUL: [V]/[A]/AWG	300 / 10 / 26 - 16	
	CSA: [V]/[A]/AWG	--	

Current carrying capacity depending on the ambient temperature

1 = base curve



Size of the p.c.b.: 1,6 ± 0,2 mm.



ZEC 1,5/...-LPV-7,5 7.5 mm Pitch



Note:

Only actuate COMBICON plug connectors when under no load condition. If for operating reasons small loads must be switched, experimental values are available upon request.

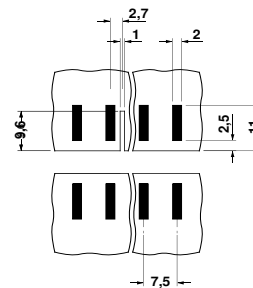
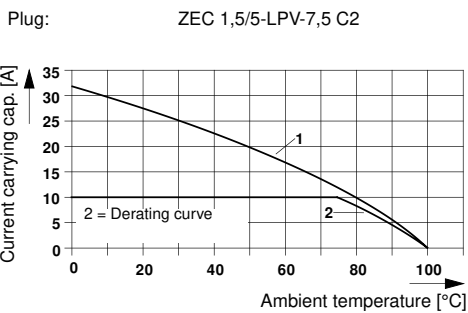
Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
P.C.B. connector, 7.5 mm pitch, Color: green					
	2	15	ZEC 1,5/2-LPV-7,5 C2	18 98 37 6	50
	3	22.5	ZEC 1,5/3-LPV-7,5 C2	18 98 38 9	
	4	30	ZEC 1,5/4-LPV-7,5 C2	18 98 39 2	
	5	37.5	ZEC 1,5/5-LPV-7,5 C2	18 98 40 2	
	6	45	ZEC 1,5/6-LPV-7,5 C2	18 98 41 5	
	7	52.5	ZEC 1,5/7-LPV-7,5 C2	18 98 42 8	
	8	60	ZEC 1,5/8-LPV-7,5 C2 ¹⁾	18 98 43 1	

Technical data

Dimensions	see description		
Pitch	7,5		
Technical data in acc. with IEC/ DIN VDE			
Insulating material group		I	
Surge voltage category / contamination class		III / 3	III / 2
Rated voltage [V]		400	630
Rated surge voltage [kV]		6	6
Nominal current / cross section [A]/[mm ²]			10 / --
Maximum load current / cross section [A]/[mm ²]			10 / --
Capacity connection			
Solid / stranded / conductor sizes [mm ²]/[mm ²]/AWG			--
Stranded with ferrule without / with plastic sleeve [mm ²]			--
Stripping length [mm]			--
Internal cylindrical gauge (IEC 60 947-1)			--
Insulating material			PA
Inflammability class in acc. with UL 94			V0
Approval data (UL/CUL and CSA)			
Nominal voltage / current / conductor sizes UL/CUL: [V]/[A]/AWG			--
CSA: [V]/[A]/AWG			--

¹⁾ Further numbers of positions on request.

Current carrying capacity depending on the ambient temperature
1 = base curve



Size of the p.c.b.: 1.6 ± 0.2 mm.

