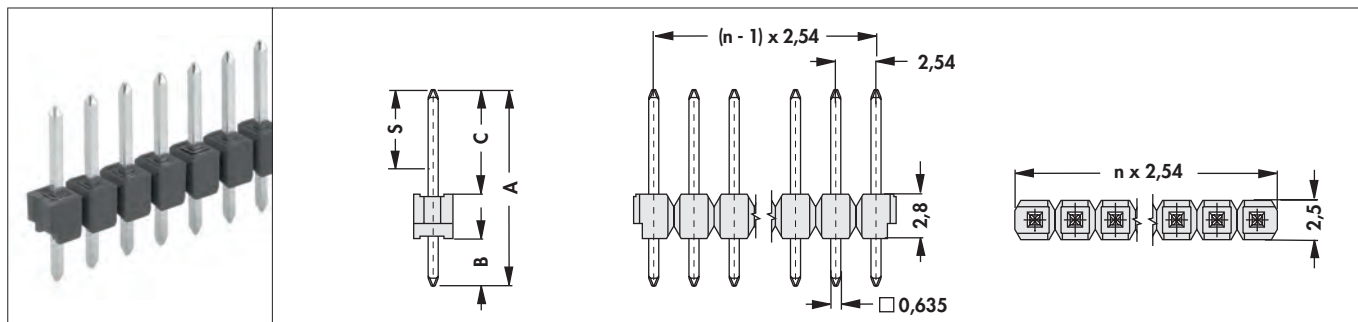


A

Male headers

- every pin length is available on request
- one row, □ 0.635 mm



art. no.	dim. [mm]				art. no.	dim. [mm]			
	A	B	C	S		A	B	C	S
SL 11 097...	9.7	3.0	3.9	4	SL 1 025 ...	11.2	5.8	5.8	4
SL 11 112 ...	11.2		5.4		5	SL 1 053 ...		13.9	
SL 11 124 ...	12.4		6.6	SL 1 078 ...		16.4		7.8	5
SL 11 139 ...	13.9		8.1	SL 1 104 ...		19.0		10.4	
SL 11 164 ...	16.4		10.6	SL 1 128 ...		21.4		12.8	6
SL 11 190 ...	19.0		13.2	SL 1 154 ...		24.0		15.4	
SL 11 214 ...	21.4		15.6	SL 1 179 ...		26.5		17.9	
SL 11 240 ...	24.0		18.2	SL 1 230 ...		31.6		23.0	
SL 11 265 ...	26.5		20.7						
SL 11 316 ...	31.6		25.8						

please indicate:

... no. of contacts	... surface of contact
one row 1 - 36	S = selective gold-plated
	G = gold-plated
	Z = tin-plated

G

H

I

K

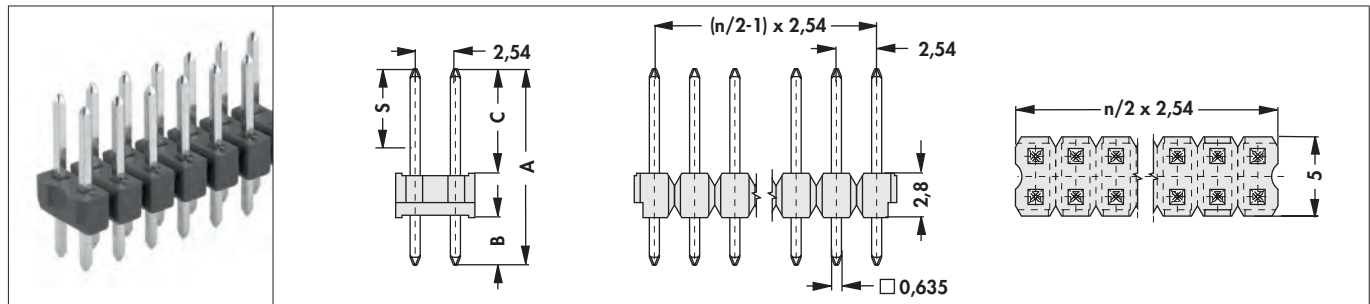
L

M

N

Male headers

- every pin length is available on request
- two rows, □ 0.635 mm



art. no.	dim. [mm]				art. no.	dim. [mm]				
	A	B	C	S		A	B	C	S	
SL 22 097 ...	9.7	3.0	3.9	4	SL 2 025 ...	11.2	5.8	5.8	4	
SL 22 112 ...	11.2		5.4		5	SL 2 053 ...		13.9		5.3
SL 22 124 ...	12.4		6.6	SL 2 078 ...		16.4		7.8		
SL 22 139 ...	13.9		8.1	SL 2 104 ...		19.0		10.4		
SL 22 164 ...	16.4		10.6	SL 2 128 ...		21.4		12.8	6	
SL 22 190 ...	19.0		13.2	SL 2 154 ...		24.0		15.4		
SL 22 214 ...	21.4		15.6	SL 2 179 ...		26.5		17.9		
SL 22 240 ...	24.0		18.2	6		SL 2 230 ...		31.6	23.0	
SL 22 265 ...	26.5		20.7							
SL 22 316 ...	31.6		25.8							

please indicate: ... no. of contacts two rows 2 - 72 ... surface of contact
S = selective gold-plated
G = gold-plated
Z = tin-plated



A
B
C
D
E
F
G
H
I
K
L
M
N

Male headers

Through-Hole-Reflow (THR) soldering technology

– every pin length is available upon request

– one row, \square 0.635 mm

art. no.	dim. [mm]				art. no.	dim. [mm]			
	A	B	C	S		A	B	C	S
SL 20 THR 097 ...	9.7	2	4.9	4	SL 20 THR 139 ...	13.9	2	9.1	5
SL 20 THR 112 ...	11.2		6.4		SL 20 THR 164 ...	16.4		11.6	
SL 20 THR 124 ...	12.4		7.6	5					
please indicate:	... no. of contacts one row 1 - 36				... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated				

– two rows, \square 0.635 mm

art. no.	dim. [mm]				art. no.	dim. [mm]			
	A	B	C	S		A	B	C	S
SL 21 THR 097 ...	9.7	2	4.9	4	SL 21 THR 139 ...	13.9	2	9.1	5
SL 21 THR 112 ...	11.2		6.4		SL 21 THR 164 ...	16.4		11.6	
SL 21 THR 124 ...	12.4		7.6	5					
please indicate:	... no. of contacts two rows 2 - 72				... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated				

Male headers

"Dimensions A + B" changeable

- **separable!** any requested number of contact can be delivered
- any pin length is available upon request

- one row, □ 0,635 mm

- **the surface of dimension "C"** of following articles is selective gold-plated: **SLK 3 025 ... S, SL 3 025 ... S**

art. no.	dim. [mm]				art. no.	dim. [mm]			
	A	B	C	S		A	B	C	S
SL 3 025 ...	4.5	3.0	5.8	5	SL 3 152 ...	16.7	15.2	5.8	6
SL 3 053 ...	6.9	5.4			SL 3 182 ...	19.7	18.2		
SL 3 080 ...	9.5	8.0			SL 3 207 ...	22.2	20.7		
SL 3 101 ...	11.6	10.1		6	SLK 3 025 ...	4.5	3.0	3.0	4
SL 3 131 ...	14.6	13.1							
please indicate:									
... no. of contacts one row 1 - 36				... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated					

- two rows, □ 0,635 mm

- **the surface of dimension "C"** of following articles is selective gold-plated: **SLK 4 025 ... S, SL 4 025 ... S**

art. no.	dim. [mm]				art. no.	dim. [mm]			
	A	B	C	S		A	B	C	S
SL 4 025 ...	4.5	3.0	5.8	5	SL 4 152 ...	16.7	15.2	5.8	6
SL 4 101 ...	11.6	10.1		6	SLK 4 025 ...	4.5	3.0	3.0	4
please indicate:									
... no. of contacts two rows 2 - 72				... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated					

Male headers

Insertion side "dimension C" changeable

- **separable!** any requested number of contact can be delivered
- any pin length is available on request

– one row, □ 0.635 mm

art. no.	dim. [mm]	art. no.	dim. [mm]
	C	S	C
SL 18 042 ...	4.2	5	SL 18 108 ...
SL 18 082 ...	8.2		SL 18 132 ...
please indicate:	... no. of contacts one row 1 - 36	... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated	

– two rows, □ 0.635 mm

art. no.	dim. [mm]	art. no.	dim. [mm]
	C	S	C
SL 19 082 ...	8.2	5	SL 19 132 ...
SL 19 108 ...	10.8		
please indicate:	... no. of contacts two rows 2 - 72	... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated	

Male headers

Low profile, straight

– any pin length is available on request

– one row, □ 0.635 mm

art. no.	dim. [mm]				art. no.	dim. [mm]			
	A	B	C	S		A	B	C	S
SL LP 1 082 ...	8.2	3	3.5	3	SL LP 1 139 ...	13.9	3	9.2	5
SL LP 1 097 ...	9.7		5.0	4	SL LP 1 164 ...	16.4		11.7	
SL LP 1 112 ...	11.2		6.5		SL LP 1 190 ...	19.0		14.3	
please indicate:	... no. of contacts one row 1 - 36				... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated				

– two rows, □ 0.635 mm

art. no.	dim. [mm]				art. no.	dim. [mm]			
	A	B	C	S		A	B	C	S
SL LP 2 082 ...	8.2	3	3.5	3	SL LP 2 139 ...	13.9	3	9.2	5
SL LP 2 097 ...	9.7		5.0	4	SL LP 2 164 ...	16.4		11.7	
SL LP 2 112 ...	11.2		6.5		SL LP 2 190 ...	19.0		14.3	
please indicate:	... no. of contacts two rows 2 - 72				... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated				

A

Male headers

Low profile, angled

– any pin length is available on request

– one row, □ 0.635 mm

art. no.	dim. [mm]				art. no.	dim. [mm]			
	A	B	C	S		A	B	C	S
SL LP 3 041 ...	4.5	3	4.1	4	SL LP 3 069 ...	4.5	3	6.9	5
please indicate:	... no. of contacts one row 1 - 36				... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated				

– two rows, □ 0.635 mm

art. no.	dim. [mm]			art. no.	dim. [mm]			
	A	B	C		A	B	C	S
SL LP 4 041 ... G	4.5	3	4.1	SL LP 4 069 ...	4.5	3	6.9	5
SL LP 4 041 ... Z								
please indicate:	... no. of contacts two rows 2 - 72			... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated				

N

Male headers

Sandwich-design

- "S" selective gold-plated up to 33 mm pin length
- for interconnections of stacked PCBs
- within the total length of the pin the insulator position can be changed as required ... **Design specification-sheet**
- **separable!** any requested number of contact can be delivered

- one row, □ 0,635 mm

art. no.	dim. [mm]			art. no.	dim. [mm]			art. no.	dim. [mm]	
	A	L	S		A	L	S		A	L
SL 5 071 ...	7.1	16.4	5	SL 5 156 Z	15.6	24.9	6	SL 5 285 ...	28.5	37.8
SL 5 097 ...	9.7	19.0		SL 5 172 ...	17.2	26.5		SL 5 315 ...	31.5	40.8
SL 5 121 ...	12.1	21.4	6	SL 5 197 ...	19.7	29.0	SL 5 360 ...	36.0	45.3	
SL 5 147 ...	14.7	24.0		SL 5 223 ...	22.3	31.6	SL 5 415 ...	41.5	50.8	
SL 5 156 G	15.6	24.9		SL 5 237 ...	23.7	33.0	SL 5 525 ...	52.2	61.5	
please indicate:	... no. of contacts one row 1 - 36			... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated						

- two rows, □ 0,635 mm

art. no.	dim. [mm]			art. no.	dim. [mm]			art. no.	dim. [mm]	
	A	L	S		A	L	S		A	L
SL 6 071 ...	7.1	16.4	5	SL 6 156 Z	15.6	24.9	6	SL 6 285 ...	28.5	37.8
SL 6 097 ...	9.7	19.0		SL 6 172 ...	17.2	26.5		SL 6 315 ...	31.5	40.8
SL 6 121 ...	12.1	21.4	6	SL 6 197 ...	19.7	29.0	SL 6 360 ...	36.0	45.3	
SL 6 147 ...	14.7	24.0		SL 6 223 ...	22.3	31.6	SL 6 415 ...	41.5	50.8	
SL 6 156 G	15.6	24.9		SL 6 237 ...	23.7	33.0	SL 6 525 ...	52.2	61.5	
please indicate:	... no. of contacts two rows 2 - 72			... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated						

Male headers

Sandwich-design

- "S" selective gold-plated up to 33 mm pin length
- for interconnections of stacked PCBs
- for plugging the the female headers **BL 11 (SL 13 ...)** → G 67 and **BL 12 (SL 14 ...)** → G 67
- suitable for PCB thicknesses between 1.5 mm and 33 mm
- **separable!** any requested number of contact can be delivered

– one row □ 0.635 mm

art. no.	dim. [mm]		S	art. no.	dim. [mm]	
	A	L			A	L
SL 13 071 ...	7.1	21.4	6	SL 13 235 ...	23.5	37.8
SL 13 097 ...	9.7	24.0		SL 13 265 ...	26.5	40.8
SL 13 122 ...	12.2	26.5		SL 13 310 ...	31.0	45.3
SL 13 147 ...	14.7	29.0		SL 13 365 ...	36.5	50.8
SL 13 187 ...	18.7	33.0				
please indicate:	... no. of contacts one row 1 - 36			... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated		

– two rows, □ 0.635 mm

art. no.	dim. [mm]		S	art. no.	dim. [mm]	
	A	L			A	L
SL 14 071 ...	7.1	21.4	6	SL 14 235 ...	23.5	37.8
SL 14 097 ...	9.7	24.0		SL 14 265 ...	26.5	40.8
SL 14 122 ...	12.2	26.5		SL 14 310 ...	31.0	45.3
SL 14 147 ...	14.7	29.0		SL 14 365 ...	36.5	50.8
SL 14 187 ...	18.7	33.0				
please indicate:	... no. of contacts two rows 2 - 72			... surface of contact S = selective gold-plated G = gold-plated Z = tin-plated		

date: _____
 pieces per order: _____
 company: _____
 name, dept.: _____
 town: _____
 street: _____
 fax: _____
 signature: _____

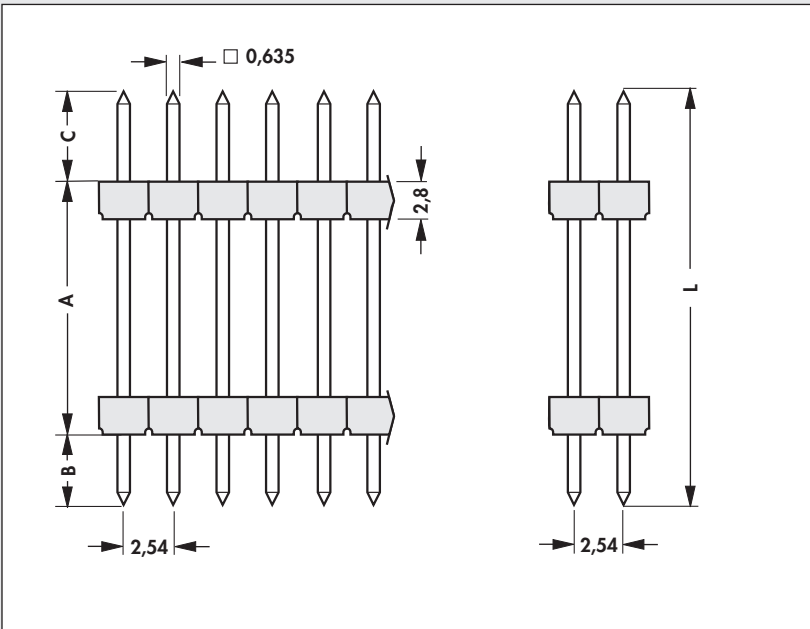
- inquiry
 order

surface finish

selective gold-plated
 gold-plated
 tin-plated

one row 1 - 36 contacts possible
 two rows 2 - 72 contacts possible

number of contacts



L = total contact length
A = distance between PCBs
B = solder side
C = insertion side

dimensions:

L

A

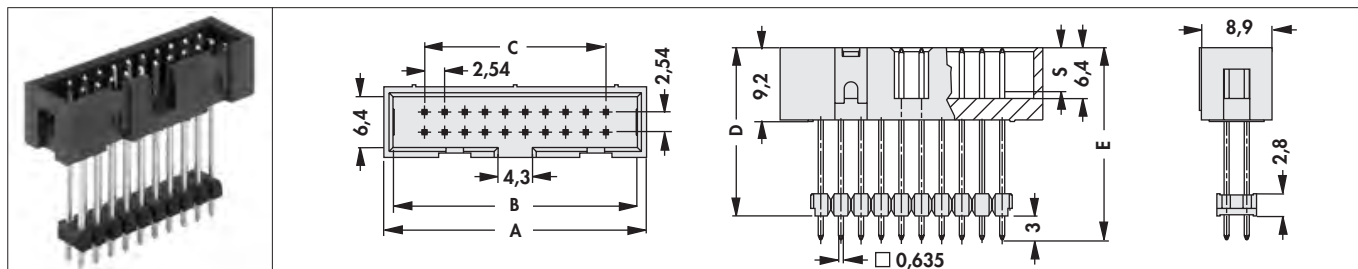
B

C

Male headers

Shrouded male header, with coding and bolting device

– suitable for many flat cable connectors in 2.54 mm pitch



art. no.	no. of con- tacts	dim. [mm]					
		A	B	C	D	E	S
SLU 10 165 ...	10	20.4	17.8	10.16	13.5	16.5	5
SLU 10 191 ...					16.1	19.1	
SLU 10 241 ...					21.1	24.1	6
SLU 10 266 ...					23.6	26.6	
SLU 16 165 ...	16	28.0	25.4	17.78	13.5	16.5	5
SLU 16 191 ...					16.1	19.1	
SLU 16 241 ...					21.1	24.1	6
SLU 16 266 ...					23.6	26.6	
SLU 20 165 ...	20	33.1	30.5	22.86	13.5	16.5	5
SLU 20 191 ...					16.1	19.1	
SLU 20 241 ...					21.1	24.1	6
SLU 20 266 ...					23.6	26.6	
SLU 26 165 ...	26	40.7	38.1	30.48	13.5	16.5	5
SLU 26 191 ...					16.1	19.1	
SLU 26 241 ...					21.1	24.1	6
SLU 26 266 ...					23.6	26.6	
SLU 40 165 ...	40	58.5	55.9	48.26	13.5	16.5	5
SLU 40 191 ...					16.1	19.1	
SLU 40 241 ...					21.1	24.1	6
SLU 40 266 ...					23.6	26.6	
SLU 50 165 ...	50	71.2	68.6	60.96	13.5	16.5	5
SLU 50 191 ...					16.1	19.1	
SLU 50 241 ...					21.1	24.1	6
SLU 50 266 ...					23.6	26.6	

please indicate:

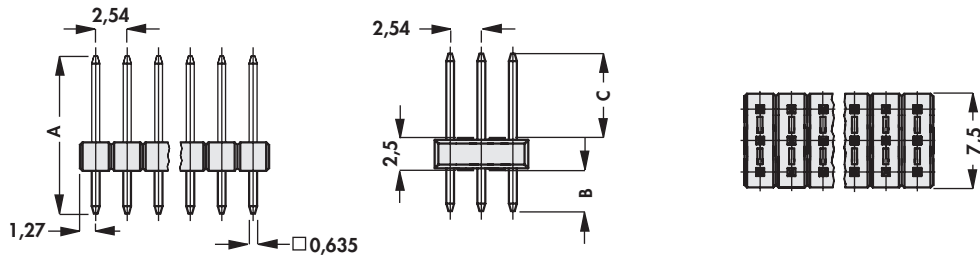
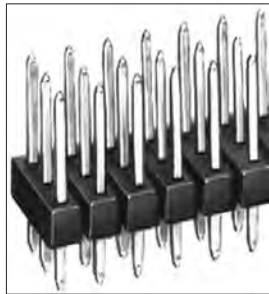
... surface of contact

S = selective gold-plated

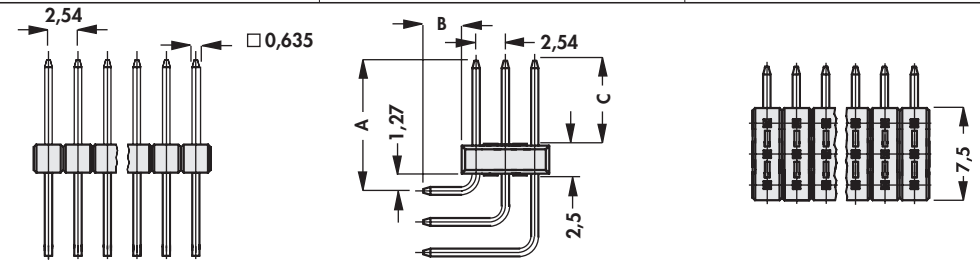
Z = tin-plated

Male headers

Three rows, □ 0.635 mm



art. no.	dim. [mm]		
	A	B	C
SL KG 3 113 ...	11.3	3.3	5.5
SL KG 3 126 ...	12.6		6.8
SL KG 3 147 ...	14.7		8.9



art. no.	dim. [mm]		
	A	B	C
SL KA 3 072 ...	7.2	3.3	3.4
SL KA 3 085 ...	8.5		4.7
SL KA 3 108 ...	10.8		7.0

please indicate: ... no. of contacts three rows 3 - 150 ... surface of contact
G = gold-plated
Z = tin-plated

	MK ..., MK LP 240 ..., MK LP 241 ..., MK LP 242 ..., MK LP 40 ..., MK LP 41 ..., MK LP 42 ..., MK LP 43 ...	SL 7 - 9	SLU ...	SL KA 3 ..., SL KG 3 ...
contact material	CuZn-alloy		CuSn alloy	CuZn-alloy
surface contact / contact sleeve	Ni+≥0.2μm Au/ Ni+4...6μm Sn		Ni+≥0.2μm Au (se- lective)/ Ni+4...6μm Sn	Ni+≥0.2μm Au/ Ni +4...6μm Sn
shock resistance	50 g			
volume resistance	≤10 mΩ	≤5 mΩ	≤10 mΩ	≤20 mΩ
vibration resistance max.	15 g			
capacity between two adjacent con- tacts	≤0,4 pF			
nominal current	1.5 A	3 A		
nominal voltage	60 V DC	250 V AC	100 V DC	250 V AC
test voltage	1000 V	2000 V	1000 V	
insulating body material	PA 4.6. GF			
temperature range	-40°C... +163°C/ (260°C/10 s)			-40°C... +163°C/ (260°C/5 s)
class of inflammability	UL 94 V-0			
specific insulation resistance	>10 ⁷ Ω·m			
	SL ... SHK ...	SL ..., SL ... THR, SLK ..., SL LP ...	SLP 1 ..., SLP 2 ..., SLUP 31 ...	SL ... LED ...
contact material	CuZn-alloy	CuSn alloy		
surface contact / contact sleeve	Ni+≥0.2μm Au	Ni+≥0.2μm Au/ Ni+4...6μm Sn		
volume resistance	≤10 mΩ	≤5 mΩ	≤10 mΩ	≤5 mΩ
nominal current	8.2 A/ 3 A	3 A		
nominal voltage	250 V AC			
test voltage	1000 V	2000 V	1000 V	2000 V
insulating body material	PCT, GF	PA 4.6. GF		LCP
temperature range	-40°C ... +105°C (260°C / 10s)	-40°C... +163°C/ (260°C/10 s)		-40°C...+230°C/ (260°C/10 s)
class of inflammability	UL 94 V-0			
specific insulation resistance	>10 ⁷ Ω·m			>10 ¹⁵ Ω·cm
	SLY ...	SLY ... SHK ...	SLM N ..., SLV N ..., SLV W ...	SLR ...
contact material	CuSn alloy	CuZn-alloy		
surface contact / contact sleeve	Ni+≥0.2μm Au/ Ni +4...6μm Sn	Ni+≥0.2μm Au	Ni+≥0.2μm Au/ Ni+4...6μm Sn	
volume resistance	≤5 mΩ	≤10 mΩ	≤5 mΩ	≤20 mΩ
nominal current	3 A	8.2 A/ 2.5 A	1.5 A	1 A
nominal voltage	100 V DC	250 V AC	125 V AC	100 V AC/ 150 V DC
test voltage	500 V	1000 V	300 V	500 V
insulating body material	PA 4.6. GF	PCT, GF	PA 4.6. GF	PCT, GF
temperature range	-40°C... +163°C/ (260°C/10 s)	-40°C ... +105°C (260°C / 10s)	-40°C... +163°C/ (260°C/10 s)	-40°C... +105°C/ (260°C/10 s)
class of inflammability	UL 94 V-0			
specific insulation resistance	>10 ⁷ Ω·m	>10 ⁷ Ω·m		

