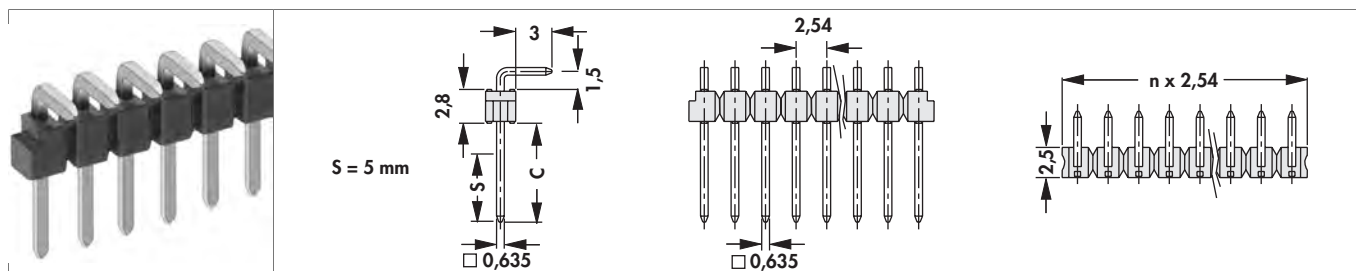


Male headers

Insertion side "dimension C" changeable

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

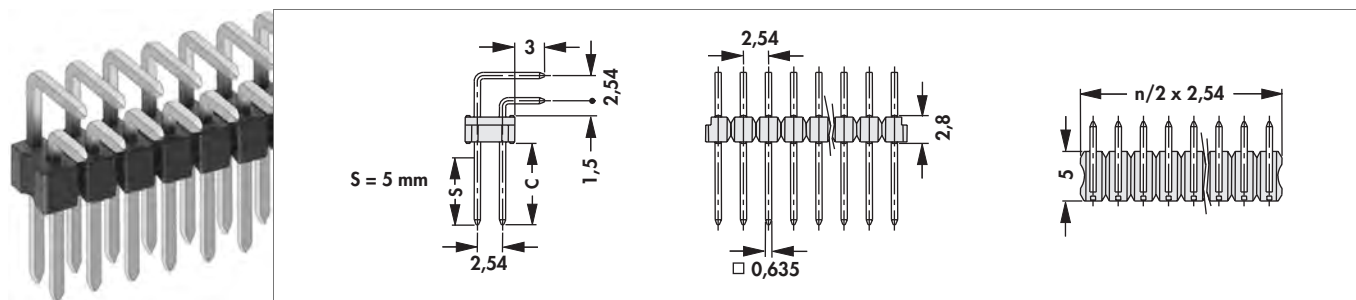
- one row, □ 0.635 mm



art. no.	dim. [mm] C	art. no.	dim. [mm] C
SL 18 042 ...	4.2	SL 18 108 ...	10.8
SL 18 082 ...	8.2	SL 18 132 ...	13.2

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] C	art. no.	dim. [mm] C
SL 19 082 ...	8.2	SL 19 132 ...	13.2
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

	MK ..., MK LP ...	SL ..., SL ... THR, SLK ... , SL LP ...	SLU ...	SL KA 3 ..., SL KG 3 ...
contact material	CuZn-alloy	CuSn alloy		CuZn-alloy
surface contact / contact sleeve	Ni+ $\geq 0.2\mu\text{m Au}$ / Ni+4...6 $\mu\text{m Sn}$		Ni+0.2 $\mu\text{m Au}$ (selective)/ Ni+4...6 $\mu\text{m Sn}$	Ni+ $\geq 0.2\mu\text{m Au}$ / Ni+4...6 $\mu\text{m Sn}$
shock resistance	50 g			
volume resistance	$\leq 10\text{ m}\Omega$	$\leq 5\text{ m}\Omega$	$\leq 10\text{ m}\Omega$	$\leq 20\text{ m}\Omega$
vibration resistance max.	15 g			
capacity between two adjacent contacts	$\leq 0,4\text{ pF}$			
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 flammability	UL 94 V-0			
specific insulation resistance	$> 10^7\ \Omega\cdot\text{m}$			

	SLP 1 ..., SLP 2 ..., SLUP 31 ...	SLY ...	SLM N ..., SLV N ..., SLV W ...	SLR ...
contact material	CuSn alloy		CuZn-alloy	
surface contact / contact sleeve	Ni+ $\geq 0.2\mu\text{m Au}$ / Ni+4...6 $\mu\text{m Sn}$			
volume resistance	$\leq 10\text{ m}\Omega$	$\leq 5\text{ m}\Omega$		$\leq 20\text{ m}\Omega$
nominal current	3 A		1.5 A	1 A
nominal voltage	250 V AC	100 V DC	125 V AC	100 V AC/ 150 V DC
test voltage	1000 V	500 V	300 V	500 V
insulating body material	PA 4.6. GF			PCT, GF
temperature range	-40°C... +163°C/ (260°C/10 s)			-40°C... +105°C/ (260°C/10 s)
class of flammability	UL 94 V-0			
specific insulation resistance	$> 10^7\ \Omega\cdot\text{m}$			

Technical data PCB connectors

	MK 06 ..., MK 07/207 ..., MK 12/212 ..., MK 13/213 ..., MK 17/217 ...	MK 01/201 ..., MK 220 SMD ..., MK 228 THR ..., MK 23/223 ..., MK 25 SMD ..., MK LP 18 ..., MK LP 19 ..., MK LP 218 ..., MK LP 219 ...	PO A ...	SIL 1 ..., SIL 3 ...
contact material	CuZn-alloy			
surface contact / contact sleeve	Ni+4...6µm Sn	Ni+≥0.2µm Au/ Ni+4...6µm Sn		Ni+4...6µm Sn
inner contact spring material	CuBe-alloy			
inner contact spring surface	Ni+0,75µm Au	Ni+0,25µm Au		Ni+0,75µm Au
type internal spring	4-fingers			
plugability for circuit points	□0,22x0,25mm... □0,4x0,55mm/ Ø0,4...0,56mm			
insert depth	2.5...3.6mm	2.5...3.4mm	2.5...3.6mm	
insertion / drawing force	1.8 N/1.4 N			
shock resistance	50 g		50 g	
volume resistance	≤10 mΩ		≤10 mΩ	
vibration resistance max.	15 g		15 g	
capacity between two adjacent contacts	≤0,4 pF		≤0,4 pF	
nominal current	1.5 A	3 A	1.5 A	
nominal voltage	60 V DC	150 V DC	60 V DC	
test voltage	1000 V	1000 V / 1 min.	1000 V	
insulating body material	PA 4.6. GF			
temperature range	-40°C... +163°C/ (260°C/10 s)	-55°C... +125°C/ (260°C/10 s)		
class of flammability	UL 94 V-0			
specific insulation resistance	>10 ⁷ Ω·m			

	SIL 2 ...	BL 1 ..., BL 2 ..., BL 3 ..., BL 4 ...	BL 11 ...	BL 12 ..., BL 21 ...
contact material	CuZn-alloy	CuSn alloy		
surface contact / contact sleeve	Ni+4...6 μ m Sn	Ni+ \geq 0.2 μ m Au/ Ni+4...6 μ m Sn	Ni+4...6 μ m Sn	
inner contact spring material	CuBe-alloy			
inner contact spring surface	Ni+0,25 μ m Au			
type internal spring	4-fingers	fork contact	spring contact	
plugability for circuit points	□0,22x0,25mm... □0,4x0,55mm/ Ø0,4...0,56mm	□0,5...0,7mm	□0,6...0,65mm	
insert depth	2.5...3.6mm	1.5...5mm	\leq 5mm from above/ \leq 8mm from below	\leq 6mm from above or from be- low
insertion / drawing force	1.8 N/1.4 N	1.5 N/1.3 N	1.5 N/0.5 N	1.5 N/0.2 N
shock resistance	50 g			
volume resistance	\leq 10 m Ω		\leq 20 m Ω	
vibration resistance max.	15 g			
capacity between two adjacent contacts	\leq 0,4 pF	\leq 0,9 pF		
nominal current	1.5 A		3 A	
nominal voltage	60 V DC	125 V AC	250 V AC	
test voltage	1000 V		1500 V	
insulating body material		PPS	PA 4.6. GF	LCP
temperature range		-40°C... +200°C/ (260°C/10 s)	-40°C... +163°C/ (260°C/10 s)	-55°C... +125°C
class of flammability		UL 94 V-0		
specific insulation resistance		$>10^{12}$ Ω ·m	$>10^7$ Ω ·m	$>10^{12}$ Ω ·m

Technical data PCB connectors

	BL KG 3 ...	BL 13 ..., BL 14 ..., BL 18 ..., BL 19 ...	BL LP ...	BL 15-17 SMD ..., BL 20 SMD ..., BL 5 - 10 ...
contact material	CuZn-alloy		CuSn alloy	CuZn-alloy
surface contact / contact sleeve	Ni+4...6µm Sn	Ni+≥0.2µm Au	Ni+0.2µm Au (selective)/ Ni+2...4µm Sn (matt finished tin)	Ni+4...6µm Sn
inner contact spring material	CuBe-alloy			CuBe-alloy
inner contact spring surface	Ni+0,75µm Au			Ni+0,75µm Au
type internal spring	6-fingers		fork contact	6-fingers
plugability for circuit points	□0,55...0,65mm/ Ø0,65...0,85mm		□0,5...0,7mm	□0,55...0,65mm/ Ø0,65...0,85mm
insert depth	2.5...6mm		2...4mm	2.5...6mm
insertion / drawing force	1.3N/0.3N			1.3N/0.3N
shock resistance		50 g		50 g
volume resistance		≤10 mΩ		
vibration resistance max.		15 g		15 g
capacity between two adjacent contacts		≤ 0,3 pF	≤ 0,9 pF	≤ 0,3 pF
nominal current	3 A			
nominal voltage	150 V DC		125 V AC	150 V DC
test voltage	500 V	1500 V		
insulating body material	PCT, GF	PA 4.6. GF	PPS	PA 4.6. GF
temperature range	-55°C... +125°C/ (260°C/10 s)	-40°C... +163°C/ (260°C/10 s)	-40°C... +200°C/ (260°C/10 s)	-40°C... +163°C/ (260°C/10 s)
class of flammibility	UL 94 V-0			
specific insulation resistance		>10 ⁷ Ω·m	>10 ¹² Ω	>10 ⁷ Ω·m

	MK 21/221 ..., MK 22/222 ..., MK 24 SMD ...	BLP 1 ..., BLP 2 ...	BLY ...	BLR ...
contact material	CuZn-alloy			
surface contact / contact sleeve	Ni+4...6µm Sn			
inner contact spring material	CuBe-alloy			
inner contact spring surface	Ni+0,75µm Au		Ni+0,25µm Au	Ni+0,75µm Au
type internal spring	6-fingers			3-fingers
plugability for circuit points	□0,55...0,65mm/ Ø0,65...0,85mm		□0,45...0,5mm/ Ø0,4...0,56mm	Ø0,35...0,46mm
insert depth	2.5...3.6mm	2.5...6mm	2.5...3.8mm	2.5...3mm
insertion / drawing force	1.3N/0.3N			1.2N/0.6N
shock resistance	50 g			
volume resistance	≤10 mΩ			≤20 mΩ
vibration resistance max.	15 g			
capacity between two adjacent contacts	≤0,3 pF	≤0,3 pF	≤0,7 pF	≤1,0 pF
nominal current	3 A	2 A	2.5 A	1 A
nominal voltage	150 V DC		100 V DC	
test voltage	1500 V	1000 V	500 V	
insulating body material	PA 4.6. GF			PCT, GF
temperature range	-40°C... +163°C/ (260°C/10 s)			-40°C... +105°C/ (260°C/10 s)
class of flammability	UL 94 V-0			
specific insulation resistance	>10 ⁷ Ω·m			

Technical data PCB connectors

	BLM ...	DF 1 ..., DF 2 ...	DF OB ...	CAB 4 ...
contact material	CuSn alloy			
surface contact / contact sleeve	Ni+ $\geq 0.2\mu\text{m Au}$ / Ni+4... $6\mu\text{m Sn}$	Ni+4... $6\mu\text{m Sn}$	Ni+ $7\mu\text{m Sn}$	0.1 $\mu\text{m Au}$ / 5 $\mu\text{m Sn}$
type internal spring	fork contact		spring contact	
plugability for circuit points	$\square 0,3...0,4\text{mm}$			
insert depth	2.5...6mm			4...6.1mm
insertion / drawing force	1.3 N/1.1 N			
volume resistance	$\leq 10\text{ m}\Omega$			
capacity between two adjacent contacts	$\leq 0,4\text{ pF}$			
nominal current	1.5 A	2 A	3 A	1.5 A
nominal voltage	125 V AC			250 V AC
test voltage	500 V		800 V	
insulating body material	PA 4.6. GF	polycarbonate	PA 4.6. GF	PBT
temperature range	-40°C... +163°C/ (260°C/10 s)	-40°C... +125°C	-40°C... +125°C/ (260°C/10 s)	-40°C... +105°C
class of flammability	UL 94 V-0			
specific insulation resistance	$> 10^7\ \Omega\cdot\text{m}$			
PCB thickness		0,7...0,9 mm	1,4...1,8 mm	
mounting				without mounting eyelets

	CAB 5 ...	CAB 6 ...	CAB 9 ...	CAB 10 G S
surface contact / contact sleeve	0.5 μm Au/ 1 μm Au/ 5 μm Sn		0.1 μm Au	
insert depth	4...5.5mm	5mm...plug through	4...5.6mm	4mm...plug through
nominal current	3 A	1.5 A	3 A	1.5 A
nominal voltage	250 V AC		500 V AC	150 V DC
insulating body material	PA 6		PBT	
temperature range	-40°C... +105°C		-40°C... +105°C/ (resistance to soldering heat 235°C/30-60s)	-40°C... +105°C

	CAB 11 G S	CAB 15 G S
surface contact / contact sleeve	0.1 μm Au	<0.1 μm Au
insert depth	5mm...plug through	2.2...2.4mm
nominal current	1.5 A	1 A
nominal voltage	150 V DC	100 V AC
insulating body material	PBT	PA 66
temperature range	-40°C... +105°C	-40°C... +150°C