

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

	<b>MK 06 ..., MK 07/207 ..., MK 12/212 ..., MK 13/213 ..., MK 17/217 ..., MK 31/231 ...</b>	<b>MK LP 18 ..., MK LP 19 ..., MK LP 218 ..., MK LP 219 ...</b>	<b>PO A ...</b>	<b>SIL 1 ..., SIL 3 ...</b>
<b>contact material</b>	CuZn-alloy			
<b>surface contact / contact sleeve</b>	Ni+0.2μm Au/ Ni+4...6μm Sn		Ni+ ≥0.2μm Au	Ni+0.2μm Au/ Ni +4...6μm Sn
<b>inner contact spring material</b>	CuBe-alloy			
<b>inner contact spring surface</b>	Ni+0,75μm Au		Ni+0,25μm Au	Ni+0,75μm Au
<b>type internal spring</b>	4-fingers			
<b>plugability for circuit points</b>	□0,22x0,25mm... □0,4x0,55mm/ Ø0,4...0,56mm			
<b>insert depth</b>	2.5...3.6mm		2.5...3.4mm	2.5...3.6mm
<b>insertion / drawing force</b>	1.8 N/1.4 N			
<b>shock resistance</b>	50 g			50 g
<b>volume resistance</b>	≤10 mΩ			≤10 mΩ
<b>vibration resistance max.</b>	15 g			15 g
<b>capacity between two adjacent con- tacts</b>	≤0,4 pF			≤0,4 pF
<b>nominal current</b>	1.5 A		3 A	1.5 A
<b>nominal voltage</b>	60 V DC		150 V DC	60 V DC
<b>test voltage</b>	1000 V		1000 V / 1 min.	1000 V
<b>insulating body material</b>	PA 4.6. GF			
<b>temperature range</b>	-40°C... +163°C/ (260°C/10 s)		-55°C... +125°C/ (260°C/10 s)	
<b>class of inflammability</b>	UL 94 V-0			
<b>specific insulation resistance</b>	> 10 <sup>7</sup> Ω·m			

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**Technical data: PCB connectors**

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	<b>SIL 2 ...</b>	<b>BL 1 ..., BL 2 ..., BL 3 ..., BL 4 ...</b>	<b>BL LP ...</b>	<b>BL 11 ...</b>
<b>contact material</b>	CuZn-alloy	CuSn alloy		
<b>surface contact / contact sleeve</b>	Ni+0.2 $\mu$ m Au/ Ni +4...6 $\mu$ m Sn	Ni+ $\geq$ 0.2 $\mu$ m Au/ Ni +4...6 $\mu$ m Sn	Ni+ $\geq$ 0.2 $\mu$ m Au (se- lective)/ Ni+2...4 $\mu$ m Sn (matt finished tin)	Ni+ $\geq$ 0.2 $\mu$ m Au (se- lective)/ Ni+4...6 $\mu$ m Sn
<b>inner contact spring material</b>	CuBe-alloy			
<b>inner contact spring surface</b>	Ni+0,25 $\mu$ m Au			
<b>type internal spring</b>	4-fingers	fork contact		spring contact
<b>plugability for circuit points</b>	□0,22x0,25mm... □0,4x0,55mm/ Ø0,4...0,56mm	□0,5...0,7mm		□0,6...0,65mm
<b>insert depth</b>	2.5...3.6mm	1.5...5mm	2...4mm	$\geq$ 5mm from above/ $\geq$ 8mm from below
<b>insertion / drawing force</b>	1.8 N/1.4 N	1.5 N/1.3 N	2N/1.5N	1.5 N/0.5 N
<b>shock resistance</b>	50 g			
<b>volume resistance</b>		$\leq$ 10 m $\Omega$		$\leq$ 20 m $\Omega$
<b>vibration resistance max.</b>	15 g			
<b>capacity between two adjacent con- tacts</b>	$\leq$ 0,4 pF	$\leq$ 0,9 pF		
<b>nominal current</b>	1.5 A	3 A		
<b>nominal voltage</b>	60 V DC	125 V AC		250 V AC
<b>test voltage</b>	1000 V	1500 V		500 V
<b>insulating body material</b>		PPS		PA 4.6. GF
<b>temperature range</b>		-40°C... +200°C/ (260°C/10 s)		-40°C... +163°C/ (260°C/10 s)
<b>class of inflammability</b>		UL 94 V-0		
<b>specific insulation resistance</b>		$>10^{12}$ $\Omega$ ·m	$>10^{12}$ $\Omega$	$>10^7$ $\Omega$ ·m

	BL 12 ..., BL 21 ...	BL 5 - 10 ...	BL KG 3 ...	BL 15 - 17 SMD ..., BL 20 SMD ..., BL 5 - 10 ...
<b>contact material</b>	CuSn alloy	CuZn-alloy		
<b>surface contact / contact sleeve</b>	Ni+ $\geq 0,2\mu\text{m}$ Au (selective)/ Ni+4... $6\mu\text{m}$ Sn	Ni+4... $6\mu\text{m}$ Sn		
<b>inner contact spring material</b>		CuBe-alloy		
<b>inner contact spring surface</b>		Ni+0,75 $\mu\text{m}$ Au		
<b>type internal spring</b>	spring contact	6-fingers		
<b>plugability for circuit points</b>	$\square 0,6...0,65\text{mm}$	$\square 0,55...0,65\text{mm}/ \varnothing 0,65...0,85\text{mm}$		
<b>insert depth</b>	$\geq 6\text{mm}$ from above or from below	2.5...6mm		
<b>insertion / drawing force</b>	1.5 N/0.2 N	1.3N/0.3N		
<b>shock resistance</b>		50 g		50 g
<b>volume resistance</b>	$\leq 20\text{ m}\Omega$	$\leq 10\text{ m}\Omega$		$\leq 10\text{ m}\Omega$
<b>vibration resistance max.</b>		15 g		15 g
<b>capacity between two adjacent contacts</b>	$\leq 0,9\text{ pF}$	$\leq 0,3\text{ pF}$		$\leq 0,3\text{ pF}$
<b>nominal current</b>	3 A			
<b>nominal voltage</b>	250 V AC	150 V DC		
<b>test voltage</b>	500 V	1500 V	500 V	1500 V
<b>insulating body material</b>	LCP	PA 4.6. GF	PCT, GF	PA 4.6. GF
<b>temperature range</b>	-55°C... +125°C	-40°C... +163°C/ (260°C/10 s)	-55°C... +125°C/ (260°C/10 s)	-40°C... +163°C/ (260°C/10 s)
<b>class of inflammability</b>	UL 94 V-0			
<b>specific insulation resistance</b>	$> 10^{12}\ \Omega\cdot\text{m}$	$> 10^7\ \Omega\cdot\text{m}$		$> 10^7\ \Omega\cdot\text{m}$

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**Technical data: PCB connectors**

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	<b>BL 13 ... , BL 14 ... , BL 18 ... , BL 19 ...</b>	<b>BL ... SHK ...</b>	<b>MK 21/221 ... , MK 22/222 ... , MK 24 SMD ...</b>	<b>MK 01/201 ... , MK 220 SMD ... , MK 228 THR ... , MK 23/223 ... , MK 25 SMD ...</b>
<b>contact material</b>	CuZn-alloy			
<b>surface contact / contact sleeve</b>	Ni+ $\geq 0.2\mu\text{m}$ Au		Ni+4... $6\mu\text{m}$ Sn	
<b>inner contact spring material</b>	CuBe-alloy		CuBe-alloy	
<b>inner contact spring surface</b>	Ni+0,75 $\mu\text{m}$ Au		Ni+0,75 $\mu\text{m}$ Au	Ni+0,25 $\mu\text{m}$ Au
<b>type internal spring</b>	6-fingers	fork contact	6-fingers	4-fingers
<b>plugability for circuit points</b>	$\square 0,55...0,65\text{mm}/$ $\varnothing 0,65...0,85\text{mm}$	$\square 0,64\text{mm}/ \square 1,14\text{mm}$	$\square 0,55...0,65\text{mm}/$ $\varnothing 0,65...0,85\text{mm}$	$\square 0,22 \times 0,25\text{mm}...$ $\square 0,4 \times 0,55\text{mm}/$ $\varnothing 0,4...0,56\text{mm}$
<b>insert depth</b>	2.5...6mm	3.3...5.7mm	2.5...3.6mm	
<b>insertion / drawing force</b>	1.3N/0.3N		1.3N/0.3N	1.8 N/1.4 N
<b>shock resistance</b>	50 g		50 g	
<b>volume resistance</b>	$\leq 10 \text{ m}\Omega$			
<b>vibration resistance max.</b>	15 g		15 g	
<b>capacity between two adjacent con- tacts</b>	$\leq 0,3 \text{ pF}$		$\leq 0,3 \text{ pF}$	$\leq 0,4 \text{ pF}$
<b>nominal current</b>	3 A	8.2 A/ 3 A	3 A	1.5 A
<b>nominal voltage</b>	150 V DC	250 V AC	150 V DC	60 V DC
<b>test voltage</b>	1500 V	1000 V	1500 V	1000 V
<b>insulating body material</b>	PA 4.6. GF	PCT, GF	PA 4.6. GF	
<b>temperature range</b>	-40°C... +163°C/ (260°C/10 s)	-40°C ... +105°C (260°C / 10s)	-40°C... +163°C/ (260°C/10 s)	
<b>class of inflammability</b>	UL 94 V-0			
<b>specific insulation resistance</b>	$> 10^7 \Omega \cdot \text{m}$		$> 10^7 \Omega \cdot \text{m}$	
	<b>BLP 1 ... , BLP 2 ...</b>	<b>BL LP ... LED ...</b>	<b>BLY ...</b>	<b>BLY ... SHK ...</b>
<b>contact material</b>	CuZn-alloy		CuSn alloy	
<b>surface contact / contact sleeve</b>	Ni+4... $6\mu\text{m}$ Sn	Ni+ $\geq 0.2\mu\text{m}$ Au (se- lective)/ Ni+2... $4\mu\text{m}$ Sn (matt finished tin)	Ni+4... $6\mu\text{m}$ Sn	Ni+ $\geq 0.2\mu\text{m}$ Au
<b>inner contact spring material</b>	CuBe-alloy		CuBe-alloy	
<b>inner contact spring surface</b>	Ni+0,75 $\mu\text{m}$ Au		Ni+0,25 $\mu\text{m}$ Au	
<b>type internal spring</b>	6-fingers	fork contact	6-fingers	fork contact
<b>plugability for circuit points</b>	$\square 0,55...0,65\text{mm}/$ $\varnothing 0,65...0,85\text{mm}$	$\square 0,5...0,7\text{mm}$	$\square 0,45...0,5\text{mm}/$ $\varnothing 0,4...0,56\text{mm}$	$\square 0,45...0,5\text{mm}/$ $\square 1,14\text{mm}$
<b>insert depth</b>	2.5...6mm	2...4mm	2.5...3.8mm	
<b>insertion / drawing force</b>	1.3N/0.3N	2N/1.5N	1.3N/0.3N	
<b>shock resistance</b>	50 g		50 g	
<b>volume resistance</b>	$\leq 10 \text{ m}\Omega$			
<b>vibration resistance max.</b>	15 g		15 g	
<b>capacity between two adjacent con- tacts</b>	$\leq 0,3 \text{ pF}$	$\leq 0,9 \text{ pF}$	$\leq 0,7 \text{ pF}$	
<b>nominal current</b>	2 A	3 A	2.5 A	8.2 A/ 2.5 A
<b>nominal voltage</b>	150 V DC	125 V AC	100 V DC	250 V AC
<b>test voltage</b>	1000 V	1500 V	500 V	
<b>insulating body material</b>	PA 4.6. GF	LCP	PA 4.6. GF	PCT, GF
<b>temperature range</b>	-40°C... +163°C/ (260°C/10 s)	-40°C...+230°C/ (260°C/10 s)	-40°C... +163°C/ (260°C/10 s)	-40°C ... +105°C (260°C / 10s)
<b>class of inflammability</b>	UL 94 V-0			
<b>specific insulation resistance</b>	$> 10^7 \Omega \cdot \text{m}$	$> 10^{15} \Omega \cdot \text{cm}$	$> 10^7 \Omega \cdot \text{m}$	

**Technical data: PCB connectors**

	<b>BLM ...</b>	<b>BLV 2 ...</b>	<b>BLR ...</b>	<b>DF 2 ...</b>
<b>contact material</b>	CuSn alloy		CuZn-alloy	CuSn alloy
<b>surface contact / contact sleeve</b>	Ni+ $\geq 0.2\mu\text{m}$ Au/ Ni +4... $6\mu\text{m}$ Sn	Ni+ $\geq 0.2\mu\text{m}$ Au	Ni+4... $6\mu\text{m}$ Sn	
<b>inner contact spring material</b>			CuBe-alloy	
<b>inner contact spring surface</b>			Ni+0,25 $\mu\text{m}$ Au	
<b>type internal spring</b>	fork contact		3-fingers	
<b>plugability for circuit points</b>	$\square 0,3...0,4\text{mm}$	$\square 0,4\text{mm}$	$\varnothing 0,35...0,46\text{mm}$	
<b>insert depth</b>	2.5... $6\text{mm}$	2.5...4.2	2.5... $3\text{mm}$	
<b>insertion / drawing force</b>	1.3 N/1.1 N		1.2N/0.6N	
<b>shock resistance</b>			50 g	
<b>volume resistance</b>	$\leq 10\text{ m}\Omega$		$\leq 20\text{ m}\Omega$	
<b>vibration resistance max.</b>			15 g	
<b>capacity between two adjacent contacts</b>	$\leq 0,4\text{ pF}$		$\leq 1,0\text{ pF}$	
<b>nominal current</b>	1.5 A	1 A		2 A
<b>nominal voltage</b>	125 V AC	100 V DC		125 V AC
<b>test voltage</b>	500 V			
<b>insulating body material</b>	PA 4.6. GF	PCT, GF		polycarbonate
<b>temperature range</b>	-40°C... +163°C/ (260°C/10 s)	-40°C... +105°C/ (260°C/10 s)		-40°C... +125°C
<b>class of inflammability</b>	UL 94 V-0			
<b>specific insulation resistance</b>	$> 10^7\ \Omega\cdot\text{m}$			
<b>PCB thickness</b>				0,7...0,9 mm

## Technical data: PCB connectors

	DF OB ...	CAB 5 ...	CAB 4 G ...	CAB 6 ...
<b>contact material</b>	CuSn alloy			
<b>surface contact / contact sleeve</b>	Ni+7µm Sn	0.5 µm Au/ 1 µm Au/ 5 µm Sn	0.1 µm Au/ 5 µm Sn	0.5 µm Au/ 1 µm Au/ 5 µm Sn
<b>type internal spring</b>	spring contact			
<b>insert depth</b>		4...5.5mm	4...6.1mm	5mm...plug through
<b>nominal current</b>		3 A		1.5 A
<b>nominal voltage</b>	125 V AC		250 V AC	
<b>test voltage</b>	800 V			
<b>insulating body material</b>	PA 4.6. GF	PA 66	PBT	PA 66
<b>temperature range</b>	-40°C... +125°C/ (260°C/10 s)		-40°C... +105°C	
<b>class of inflammability</b>	UL 94 V-0			
<b>PCB thickness</b>	1,4...1,8 mm			
<b>mounting</b>	without mounting eye-lets			
	CAB 9 ...	CAB 10 G S	CAB 11 G S	CAB 15 G S
<b>surface contact / contact sleeve</b>		0.1 µm Au		<0.1µm Au
<b>insert depth</b>	4...5.6mm	4mm...plug through	5mm...plug through	2.2...2.4mm
<b>nominal current</b>	3 A	1.5 A		1 A
<b>nominal voltage</b>	500 V AC	150 V DC		100 V AC
<b>insulating body material</b>		PBT		PA 66
<b>temperature range</b>	-40°C... +105°C/ (re- sistance to soldering heat 235°C/30-60s)	-40°C... +105°C		-40°C... +150°C
	CAB 16 G ...			
<b>surface contact / contact sleeve</b>	<0.1µm Au			
<b>insert depth</b>	2.2...2.4mm			
<b>nominal current</b>	1 A			
<b>nominal voltage</b>	100 V AC			
<b>insulating body material</b>	PBT			
<b>temperature range</b>	-40°C... +105°C			