



### Highlights

1 to 4 poles

Push-In connection

Spacing 4.0 mm

Wire entry parallel to PCB

With lever

Reflow soldering

Automatic assembly (tape-on-reel)

### SMD

### Wire Sizes

Solid min	0.2 mm <sup>2</sup>
Solid max	0.75 mm <sup>2</sup>
Stranded (flexible) min	0.2 mm <sup>2</sup>
Stranded (flexible) max	0.75 mm <sup>2</sup>
Stranded with ferrule min	0.14 mm <sup>2</sup>
Stranded with ferrule max	0.34 mm <sup>2</sup>

### Dimensions

Stripped length	7.0 mm
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### Materials

Metal	Copper Alloy
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### Insulating Material

Material	PPA
Flammability class	UL 94 V-0

### Temperatures

Operating temperature	-60 °C (without mech. load) - 105 °C
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### Wave Soldering Process

Soldering temperature, recommended	-
Peak soldering time, recommended	-

Spacing 4.0 mm

**Reflow Process**

Soldering temperature, recommended	217 - 245 °C
Peak soldering time, recommended	60 s

**Colours**

WHITE, RAL 9003

Colours according to RAL, there may be variations on colour due to production conditions.

**Ratings**



Rated voltage (1 pole)	600 V
Rated voltage (2 up to 4 pole)	320 V
Rated current	9 A
Rated wire size	
- solid	AWG 24-18
- stranded	AWG 24-18

**Ratings**



Overvoltage category	II		III		III	
Pollution Degree	2		2		3	
Rated voltage	320 V		160 V		63 V	
Rated current	9 A		9 A		9 A	
Rated wire size	min	max	min	max	min	max
- solid	0.2 mm <sup>2</sup>	0.75 mm <sup>2</sup>	0.2 mm <sup>2</sup>	0.75 mm <sup>2</sup>	0.2 mm <sup>2</sup>	0.75 mm <sup>2</sup>
- stranded	0.2 mm <sup>2</sup>	0.75 mm <sup>2</sup>	0.2 mm <sup>2</sup>	0.75 mm <sup>2</sup>	0.2 mm <sup>2</sup>	0.75 mm <sup>2</sup>
Test voltage	2.5 kV		2.5 kV		2.5 kV	

**Tape on Reel**

Number of Poles	Reel (RD/")	Width (R/mm)	Pitch (RP/mm)	Pieces (PCS)
1	13	24	8	1500
2	13	24	12	1000
3	13	24	16	750
4	13	24	20	600

**Order Data (Spacing 4.0 mm)**

Number of Poles	Width (mm)	Article Designation	Article Number	PU
1	4.00	AK4091/1KD-4.0-WH-SMD	54091019001R	1500
2	8.00	AK4091/2KD-4.0-WH-SMD	54091029001R	1000
3	12.00	AK4091/3KD-4.0-WH-SMD	54091039001R	750
4	16.00	AK4091/4KD-4.0-WH-SMD	54091049001R	600



Technical Data // **AK4091/..KD-4.0-WH-SMD**

Spacing 4.0 mm

Technical drawing

