

03

KV ...-8

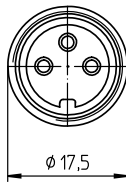
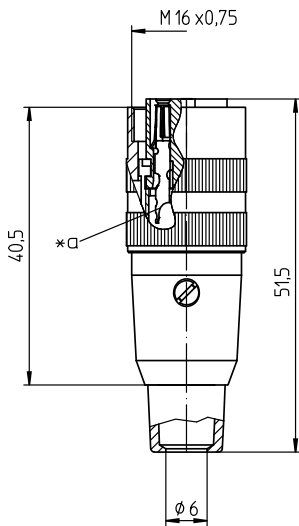
Circular connectors with threaded joint M16 acc. to IEC 61076-2-106, IP40/IP68



Socket acc. to IEC 61076-2-106, IP40, straight version, with threaded joint, solder terminals and bend protection, for cable diameter up to 8 mm

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#### Environmental conditions

Temperature range -40 °C/+85 °C

#### Materials

Insulating body	PA GF, V-0 according to UL94
Contact bush	CuZn, silver-plated and flash gold-plated (3-8 poles) CuZn, pre-nickel and gold-plated (12 poles)
Sleeve	PC, HB according to UL94
Strain relief	steel, nickel-plated
Housing	CuZn, nickel-plated
Knurled nut	CuZn, nickel-plated
Bend protection sleeve	TPE
Screw	steel, nickel-plated

#### Mechanical data

Insertion force/contact	≤ 5.0 N <sup>1</sup>
Withdrawal force/contact	≥ 1.2 N (3-8 poles) ≥ 0.9 N (12 poles) <sup>1</sup>
Tightening torque connector	1–3 Nm
Protection class	IP40 <sup>2</sup>

<sup>1</sup> measured with a polished steel pin, nominal thickness 1.5 mm (1.0 mm with 12 poles)

<sup>2</sup> according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

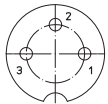
#### Connectable conductors for solder area

Section	≤ 0.75 mm <sup>2</sup> (AWG 20) (3-8 poles) ≤ 0.25 mm <sup>2</sup> (AWG 24) (12 poles)
Cable diameter	6–8 mm

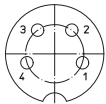
#### Electrical data (at T<sub>amb</sub> 20 °C)

Contact resistance	≤ 5 mΩ
Rated current	5 A (T <sub>amb</sub> 40 °C, 3-8 poles) 3 A (T <sub>amb</sub> 40 °C, 12 poles)
Rated voltage	with pollution degree 1: 300 V (versions 30, 40, 50/6, 60, 70) 100 V (versions 50, 71, 80, 81) 160 V (Polbild 120) with pollution degree 2: 250 V (versions 30, 40) 32 V (versions 50, 71, 80, 81) 160 V (versions 50/6, 60, 70, 120)
Rated impulse voltage	1500 V (versions 30, 40, 50/6, 60, 70, 120) 500 V (versions 50, 71, 80, 81)
Material group	II (IEC)/I (UL) (400 ≤ CTI < 600)
Overvoltage category	I
Insulation resistance	> 100 MΩ

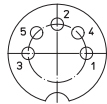
Pin configurations, solder side view



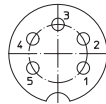
**03-a**  
KV 30-8



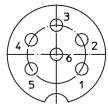
**04-a**  
KV 40-8



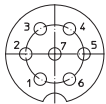
**05-b**  
KV 50-8



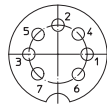
**05-a**  
KV 50/6-8



**06-a**  
KV 60-8



**07-a**  
KV 70-8



**07-b**  
KV 71-8



**KV 80-8**



**08-a**  
KV 81-8



**12-a**  
KV 120-8

Associated products

Counterparts

<input type="checkbox"/> SFV	<input type="checkbox"/> SFV ... C	<input type="checkbox"/> SGR
<input type="checkbox"/> SGV	<input type="checkbox"/> SGV ... C	<input type="checkbox"/> SV
<input type="checkbox"/> SV ... C	<input type="checkbox"/> SV ...-8	<input type="checkbox"/> SV ...-8 C
<input type="checkbox"/> WSV	<input type="checkbox"/> WSV ... C	

Accessories

<input type="checkbox"/> 0381	<input type="checkbox"/> 038199	<input type="checkbox"/> 038799
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\*a cup-shaped solder terminal

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Designation	Pole Number	PU (Pieces)	MDQ (Pieces)
KV 30-8	3	50	500
KV 40-8	4	50	500
KV 50-8	5	50	500
KV 50/6-8	5	50	500
KV 60-8	6	50	500
KV 70-8	7	50	500
KV 71-8	7	50	500
KV 80-8	8	50	500
KV 81-8	8	50	500
KV 120-8	12	50	500

**Packaging:**

pre-assembled, in a cardboard box