

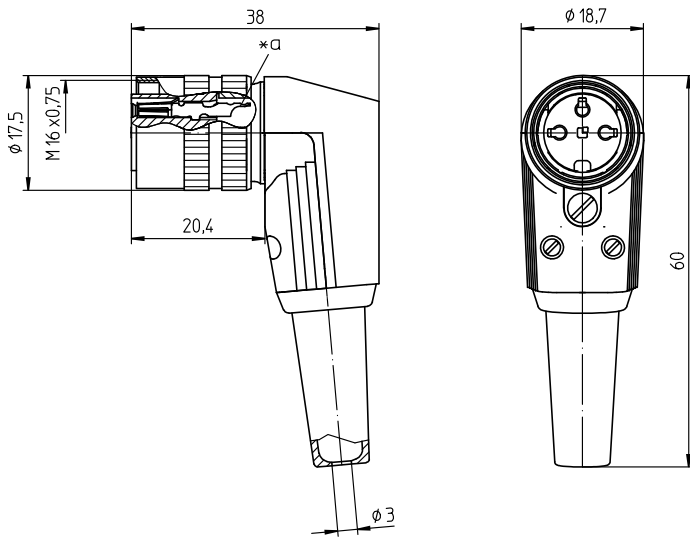
03 WKV

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



Socket acc. to IEC 61076-2-106, IP40, angular version, with threaded joint and solder terminals

**03 WKV**



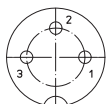
**Environmental conditions**

Temperature range -40 °C/+85 °C

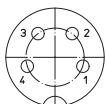
**Materials**

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)
Ground contact spring	CuZn, pre-nickel and tin-plated
Sleeve	steel, zinc-plated
Strain relief	steel, nickel-plated
Housing	PC, HB according to UL94
Knurled nut	CuZn, nickel-plated
Bend protection sleeve	TPE
Screw	special steel/steel chromatiert

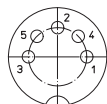
**Pin configurations, solder side view**



**03-a**  
WKV 30



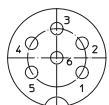
**04-a**  
WKV 40



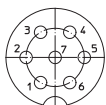
**05-b**  
WKV 50



**05-a**  
WKV 50/6



**06-a**  
WKV 60



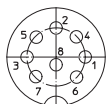
**07-a**  
WKV 70



**07-b**  
WKV 71



**WKV 80**



**08-a**  
WKV 81



**12-a**  
WKV 120

\*a cup-shaped solder terminal

**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	4–6 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)/1 (UL) (400 = CTI < 600)
Overvoltage category	I
Insulation resistance	> 100 MΩ

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**Associated products**

Counterparts

<a href="#">☞ SFV</a>	<a href="#">☞ SGR</a>	<a href="#">☞ SGV</a>
<a href="#">☞ SV</a>	<a href="#">☞ SV ... C</a>	<a href="#">☞ SV ...-8</a>
<a href="#">☞ WSV</a>	<a href="#">☞ WSV ... C</a>	

Accessories

<a href="#">☞ 0381</a>	<a href="#">☞ 038199</a>	<a href="#">☞ 038799</a>
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03 WKV

Designation	Pole Number	PU (Pieces)	MDQ (Pieces)
WKV 30	3	50	100
WKV 40	4	50	100
WKV 50	5	50	100
WKV 50/6	5	50	100
WKV 60	6	50	100
WKV 70	7	50	100
WKV 71	7	50	100
WKV 80	8	50	100
WKV 81	8	50	100
WKV 120	12	50	100

**Packaging:**

pre-assembled, in a cardboard box