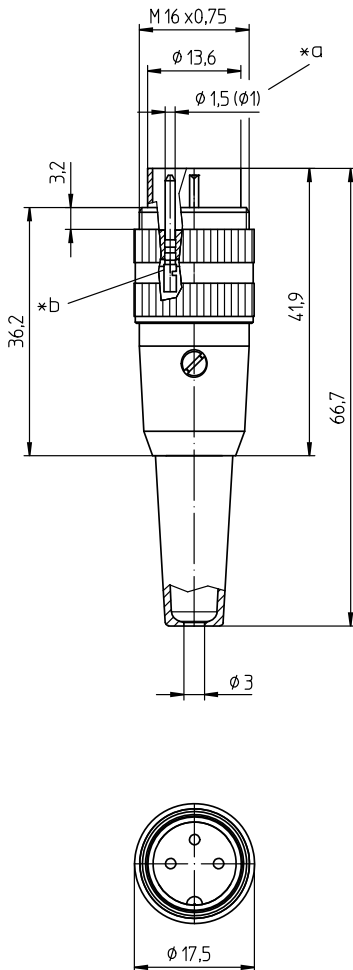


03 SV

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



Plug acc. to IEC 61076-2-106, IP40, straight version, with threaded joint, solder terminals and bend protection, for cable diameter up to 6 mm



#### Environmental conditions

Temperature range -40 °C/+85 °C

#### Materials

Insulating body	PA GF, V-0 according to UL94
Contact pin	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	PC, HB according to UL94
Strain relief	steel, nickel-plated
Housing	CuZn, nickel-plated
Knurled screw	CuZn, nickel-plated
Bend protection sleeve	TPE
Screw	steel, nickel-plated

#### Mechanical data

Tightening torque connector 1-3 Nm  
Protection class IP40<sup>1</sup>

<sup>1</sup> according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

#### Connectable conductors for solder area

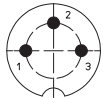
Section ≤ 0,75 mm<sup>2</sup> (AWG 20) (3-8 poles)  
≤ 0,25 mm<sup>2</sup> (AWG 24) (12 poles)  
Cable diameter 4-6 mm

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

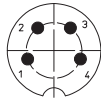
Rated current 5 A (T<sub>amb</sub> 40 °C, 3-8 poles)  
3 A (T<sub>amb</sub> 40 °C, 12 poles)  
Rated voltage with pollution degree 1:  
300 V (versions 30, 40, 50/6, 60, 70)  
100 V (versions 50, 71, 80, 81)  
160 V (Polbild 120)  
with pollution degree 2:  
250 V (versions 30, 40)  
32 V (versions 50, 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

03 SV

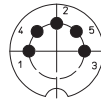
Pin configurations, solder side view



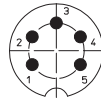
03-a  
SV 30



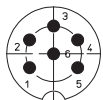
04-a  
SV 40



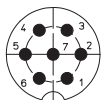
05-b  
SV 50



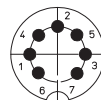
05-a  
SV 50/6



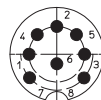
06-a  
SV 60



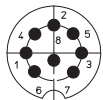
07-a  
SV 70



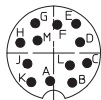
07-b  
SV 71



SV 80



08-a  
SV 81



12-a  
SV 120

\*a 12 pole version Ø 1.0 mm  
\*b cup-shaped solder terminal

Associated products

Counterparts

<input type="checkbox"/> 030398	<input type="checkbox"/> KFR	<input type="checkbox"/> KfV
<input type="checkbox"/> KfV ... C	<input type="checkbox"/> KGR	<input type="checkbox"/> KGV
<input type="checkbox"/> KGV ... C	<input type="checkbox"/> KV	<input type="checkbox"/> KV ... C
<input type="checkbox"/> KV ...-8	<input type="checkbox"/> KV ...-8 C	<input type="checkbox"/> KV ...-8 C
<input type="checkbox"/> WKV	<input type="checkbox"/> WKV ... C	

Accessories

<input type="checkbox"/> 0383	<input type="checkbox"/> 038399	<input type="checkbox"/> 038899
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Designation	Pole Number	PU (Pieces)	MDQ (Pieces)
SV 30	3	50	100
SV 40	4	50	100
SV 50	5	50	100
SV 50/6	5	50	100
SV 60	6	50	100
SV 70	7	50	100
SV 71	7	50	100
SV 80	8	50	100
SV 81	8	50	100
SV 120	12	50	100
SV 50 unmontiert	5	50	100
SV 50/6 unmontiert	5	50	100
SV 60 unmontiert	6	50	100
SV 70 unmontiert	7	50	100

**Packaging:**

preassembled, in a cardboard box (SV)

sorted individual parts in a cardboard box (SV unmontiert)