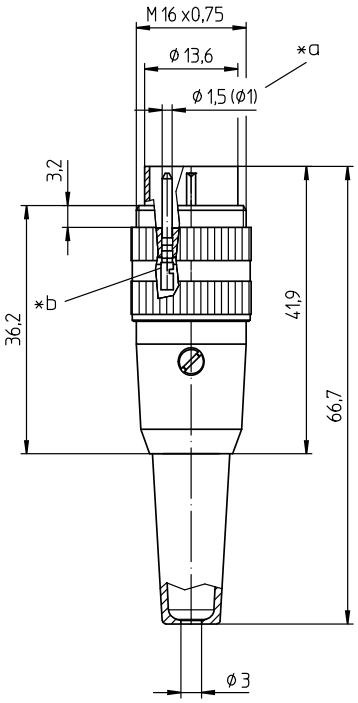
03 SV

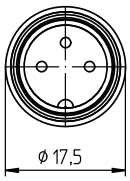
Circular connectors with threaded joint M16 acc. to IEC 61076-2-106, IP40/IP68



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

03 SV





Environmental conditions

Temperature range	-40 °C/+85 °C

Materials

Insulating body	PA GF, V-0 according to UL94
Contact pin	CuZn, pre-nickel and silver-plated, passivated (3-8 poles) CuZn, pre-nickel and gold-plated (12 poles)
Shielding contact	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[1]

[1] according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

Connectable conductors for solder area

Section	≤ 0.75 mm² (AWG 20) (3-8 poles) ≤ 0.25 mm² (AWG 24) (12 poles)
Cable diameter	4–6 mm

Electrical data (at T_{amb} 20 °C)

Rated current	5 A (T_{amb} 40 °C, 3-8 poles) 3 A (T_{amb} 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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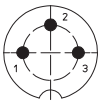
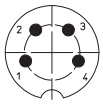
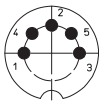
Pin configurations, solder side view



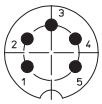
03-a
SV 30



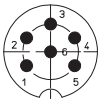
04-a
SV 40



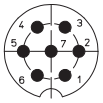
05-b
SV 50



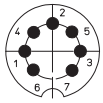
05-a
SV 50/6



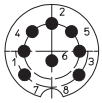
06-a
SV 60



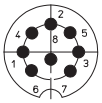
07-a
SV 70



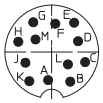
07-b
SV 71



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

- 030398
- KFR
- KFV
- KFV ... C
- KGR
- KGV
- KGV ... C
- KV
- KV ... C
- KV ...-8
- KV ...-8 C
- WKV
- WKV ... C

Accessories

- 0383
- 038399
- 038899

03 SV

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:
unassembled, individually in a plastic bag, in a cardboard box (SV)
sorted individual parts in a cardboard box (SV unmontiert)