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Lumberg
passion for connections

03 SGV

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

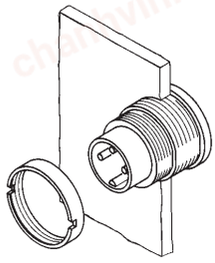


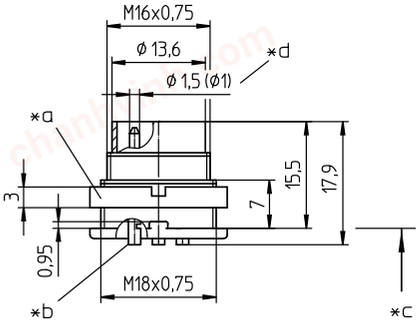
Chassis plug acc. to IEC 61076-2-106, IP40, with threaded joint and solder terminals, for back side mounting

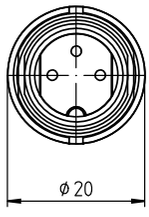
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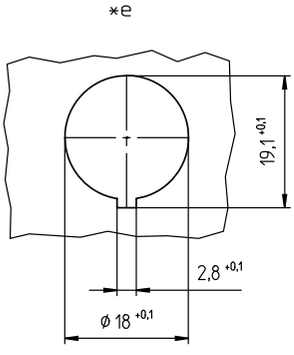
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Environmental conditions

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)
Housing	Zn diecast, pre-copper and nickel-plated
Ring screw	CuZn, nickel-plated

Mechanical data

Tightening torque connector	1-3 Nm
Tightening torque nut	1-3 Nm
Thickness of mounting plate	1-4 mm
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)

Electrical data (at T_{amb} 20 °C)

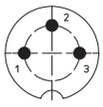
Rated current	5 A (T_{amb} 40 °C, 3-8 poles) 3 A (T_{amb} 40 °C, 12 poles)
Rated voltage	with pollution degree 1: 300 V (versions 30, 40, 50/6, 60, 70) 100 V (versions 50, 71, 80, 81) 160 V (Polbild 120) with pollution degree 2: 250 V (versions 30, 40) 32 V (versions 50, 71, 80, 81) 160 V (versions 50/6, 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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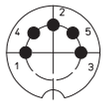
Pin configurations, solder side view



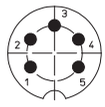
03-a
SGV 30



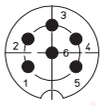
04-a
SGV 40



05-b
SGV 50



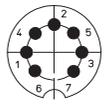
05-a
SGV 50/6



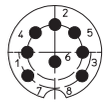
06-a
SGV 60



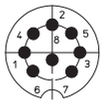
07-a
SGV 70



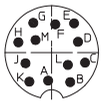
07-b
SGV 71



SGV 80



08-a
SGV 81



12-a
SGV 120

*a nut enclosed separately
*b cup-shaped solder terminal
*c mounting direction
*d 12 pole version Ø 1.0 mm
*e port in mounting plate

Associated products

Counterparts
- KV
- KV ... C
- KV ...-8
- KV ...-8 C
- WKV
- WKV ... C

Accessories
- 0383
- 038399
- 0384
- 0385
- 038899

Harnessing equipment
- ZMS 20

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

Packaging:
in a cardboard box