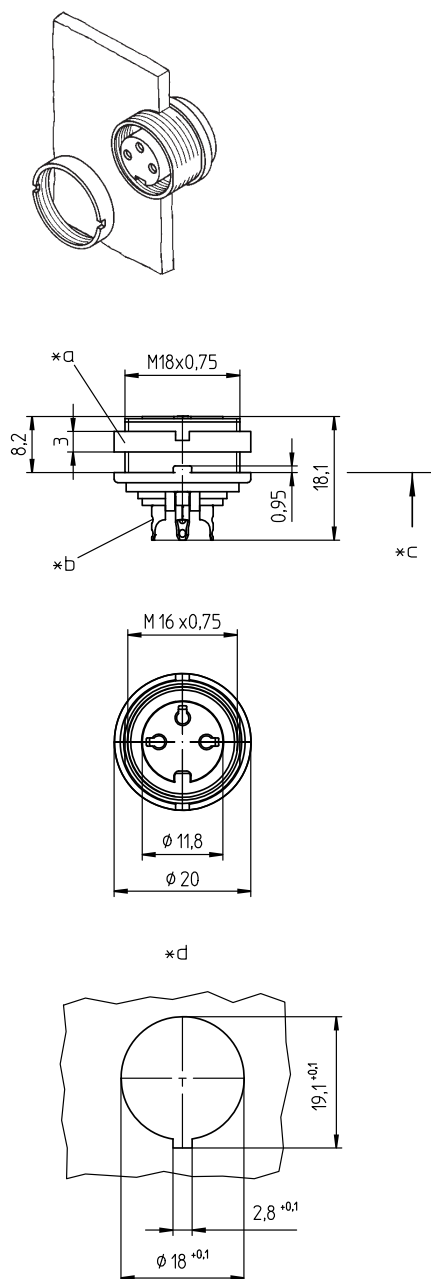


Circular connectors with threaded joint M16 acc. to IEC 61076-2-106, IP40/IP68



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



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

Mechanical data

Insertion force/contact $\leq 5.0 \text{ N}^1$
Withdrawal force/contact $\geq 1.2 \text{ N}$ (3-8 poles)
 $\geq 0.9 \text{ N}$ (12 poles)¹
Tightening torque connector 1-3 Nm
Tightening torque nut 1-3 Nm
Protection class IP40²

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

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

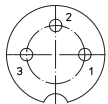
Connectable conductors for solder area

Section $\leq 0.75 \text{ mm}^2$ (AWG 20)
(3-8 poles)
 $\leq 0.25 \text{ mm}^2$ (AWG 24)
(12 poles)

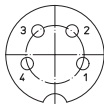
Electrical data (at $T_{\text{amb}} 20 \text{ °C}$)

Contact resistance $\leq 5 \text{ m}\Omega$
Rated current 5 A ($T_{\text{amb}} 40 \text{ °C}$, 3-8 poles)
3 A ($T_{\text{amb}} 40 \text{ °C}$, 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) ($400 \leq CTI < 600$)
Overvoltage category I
Insulation resistance $> 100 \text{ M}\Omega$

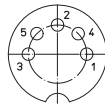
Pin configurations, solder side view



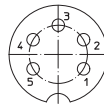
03-a
KGV 30



04-a
KGV 40



05-b
KGV 50



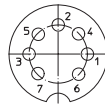
05-a
KGV 50/6



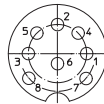
06-a
KGV 60



07-a
KGV 70



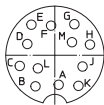
07-b
KGV 71



KGV 80



08-a
KGV 81



12-a
KGV 120

- *a nut enclosed separately
- *b cup-shaped solder terminal
- *c mounting direction
- *d port in mounting plate

Associated products

Counterparts

☑ SV	☑ SV ... C	☑ SV ...-8
☑ SV ...-8 C	☑ WSV	☑ WSV ... C

Accessories

☑ 0381	☑ 038199	☑ 0384
☑ 0385	☑ 038799	

Harnessing equipment

☑ ZMS 20

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

Packaging:
in a cardboard box