

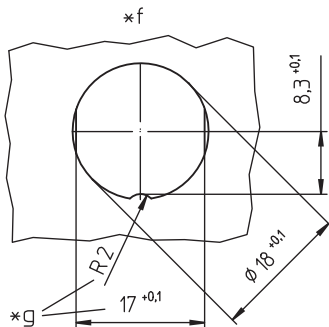
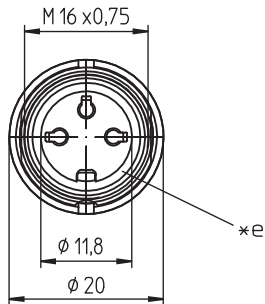
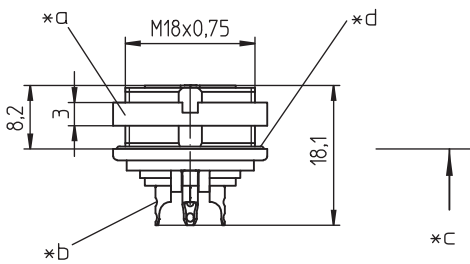
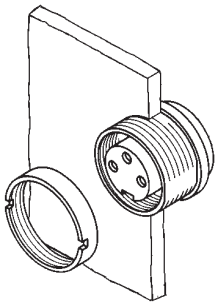
03 0305

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



Chassis socket acc. to IEC 61076-2-106, IP68, with threaded joint and solder terminals, for back side mounting

03 0305



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 (12-14 poles)
Housing Zn diecast, pre-copper and nickel-plated
Ring screw CuZn, nickel-plated
Seal CR (flat), NBR (O-ring)

Mechanical data

Insertion force/contact $\leq 5.0 \text{ N}^1$
Withdrawal force/contact $\geq 1.2 \text{ N}$ (3-8 poles)
 $\geq 0.9 \text{ N}$ (12-14 poles)¹
Tightening torque connector 1-3 Nm
Tightening torque nut 1-3 Nm
Protection class IP68²

¹ measured with a polished steel pin, nominal thickness 1.5 mm (1.0 mm with 12-14 poles)

² according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart; IPX8 requirements under agreement between manufacturer and user

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)
(12-14 poles)

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

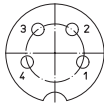
Contact resistance $\leq 5 \text{ m}\Omega$
Rated current 5 A ($T_{\text{amb}} 40 \text{ °C}$, 3-8 poles)
3 A ($T_{\text{amb}} 40 \text{ °C}$, 12-14 poles)
Rated voltage with pollution degree 1:
300 V (versions 03, 04, 05-1, 06, 07)
100 V (versions 05, 07-1, 08, 08-1)
160 V (versions 12, 14)
with pollution degree 2:
250 V (versions 03, 04)
32 V (versions 05, 07-1, 08, 08-1)
160 V (versions 05-1, 06, 07, 12, 14)
Rated impulse voltage 1500 V (versions 03, 04, 05-1, 06, 07, 12, 14)
500 V (versions 05, 07-1, 08, 08-1)
Material group II (IEC)/I (UL) ($400 \leq \text{CTI} < 600$)
Overvoltage category I
Insulation resistance $> 100 \text{ M}\Omega$

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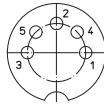
Pin configurations, solder side view



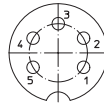
03-a
0305 03



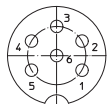
04-a
0305 04



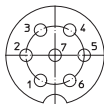
05-b
0305 05



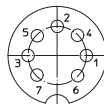
05-a
0305 05-1



06-a
0305 06



07-a
0305 07



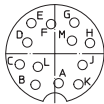
07-b
0305 07-1



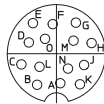
0305 08



08-a
0305 08-1



12-a
0305 12



14-a
0305 14

Associated products

Counterparts

☞ 0331	☞ 0332	☞ 0332-1
☞ 033200	☞ 0365	☞ 036500

Accessories

☞ 0322 C 16	☞ 0381	☞ 038199
☞ 0384	☞ 0385	☞ 038799

Harnessing equipment

☞ ZMS 20

- *a nut enclosed separately
- *b cup-shaped solder terminal
- *c mounting direction
- *d O-ring gasket
- *e flat gasket
- *f port in mounting plate
- *g anti-rotation, alternative execution

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Designation	Pole Number	PU (Pieces)	MDQ (Pieces)
0305 03	3	50	100
0305 04	4	50	100
0305 05	5	50	100
0305 05-1	5	50	100
0305 06	6	50	100
0305 07	7	50	100
0305 07-1	7	50	100
0305 08	8	50	100
0305 08-1	8	50	100
0305 12	12	50	100
0305 14	14	50	100

Packaging:
in a cardboard box