

03

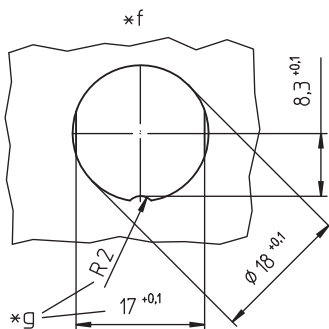
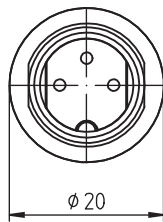
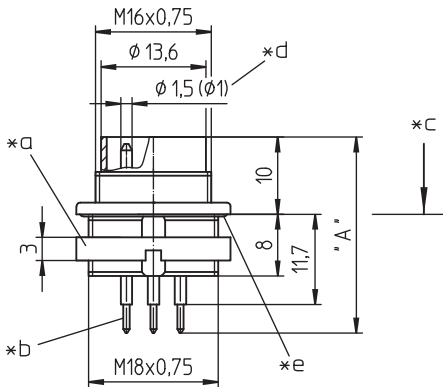
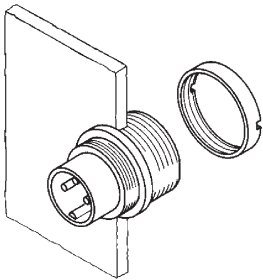
0316

Circular connectors with threaded joint M16 acc. to IEC 61076-2-106, IP40/IP67/IP68



Chassis plug acc. to IEC 61076-2-106, IP68, with threaded joint, for printed circuit boards, for front mounting

03 0316



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, tin-plated in solder area (3-8 poles)
 CuZn, pre-nickel and gold-plated, tin-plated in solder area (12-14 poles)
 Housing Zn diecast, pre-copper and nickel-plated
 Ring screw CuZn, nickel-plated
 Seal NBR

Mechanical data

Tightening torque connector 1-3 Nm
 Tightening torque nut 1-3 Nm
 Protection class IP68¹

¹ according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart; IPX8 requirements under agreement between manufacturer and user

Electrical data (at T_{amb} 20 °C)

Rated current 5 A (T_{amb} 40 °C, 3-8 poles)
 3 A (T_{amb} 40 °C, 12-14 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)/1 (UL) (400 ≅ CTI < 600)
 Overvoltage category I
 Insulation resistance > 100 MΩ

Associated products

Counterparts
 ☞ 0321 ☞ 0322 ☞ 0322-1
 ☞ 032200 ☞ 0360 ☞ 036000
 Accessories
 ☞ 0382 ☞ 0383 ☞ 038399


03

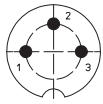
0316

Pin configurations, solder side view

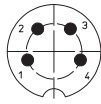
 0384

 0385

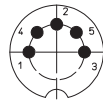
 038899



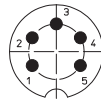
03-a
0316 03



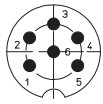
04-a
0316 04



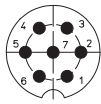
05-b
0316 05



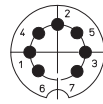
05-a
0316 05-1



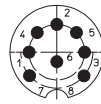
06-a
0316 06



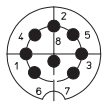
07-a
0316 07



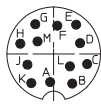
07-b
0316 07-1



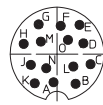
0316 08



08-a
0316 08-1



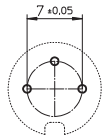
12-a
0316 12



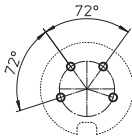
14-a
0316 14

03 0316

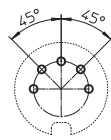
Printed circuit board layout, solder side view



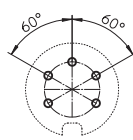
03-a
0316 03



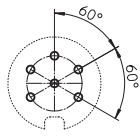
04-a
0316 04



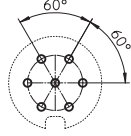
05-b
0316 05



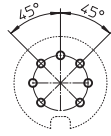
05-a
0316 05-1



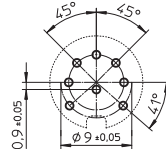
06-a
0316 06



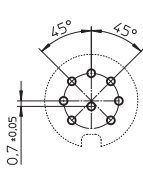
07-a
0316 07



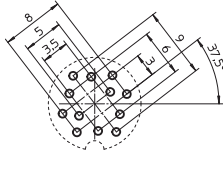
07-b
0316 07-1



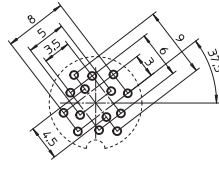
0316 08



08-a
0316 08-1



12-a
0316 12



14-a
0316 14

- *a nut enclosed separately
- *b for bore hole of PCB
Ø 1,0 mm (0316 03–0316 08-1)
Ø 0,7 mm (0316 12–0316 14)
- *c mounting direction
- *d contact pin
Ø 1.5 mm (0316 03–0316 08-1)
Ø 1.0 mm (0316 12–0316 14)
- *e O-ring gasket
- *f port in mounting plate
- *g anti-rotation, alternative execution

03

0316

Designation	Pole Number	PU (Pieces)	MDQ (Pieces)	Dimensions A (mm)
0316 03	3	50	100	25.4
0316 04	4	50	100	25.4
0316 05	5	50	100	25.4
0316 05-1	5	50	100	25.4
0316 06	6	50	100	25.4
0316 07	7	50	100	25.4
0316 07-1	7	50	100	25.4
0316 08	8	50	100	25.4
0316 08-1	8	50	100	25.4
0316 12	12	50	100	24.8
0316 14	14	50	100	24.8

Packaging:
in a cardboard box