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Lumberg
passion for connections

03 0321

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

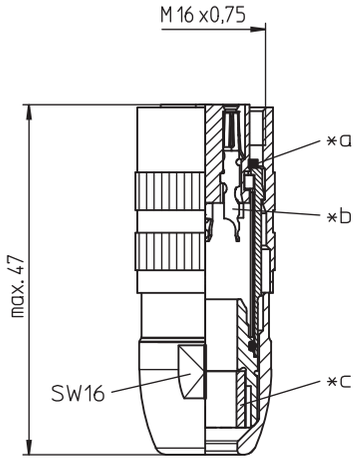


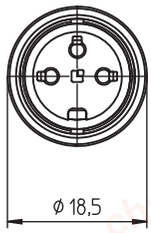
Socket acc. to IEC 61076-2-106, IP68, with threaded joint
and solder terminals

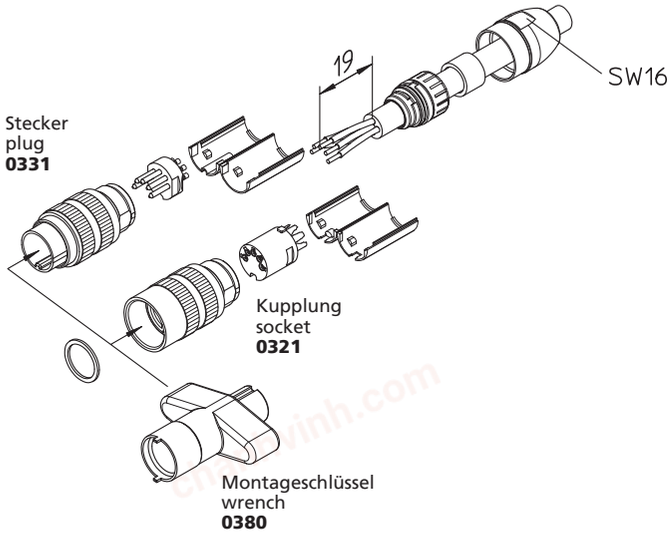
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Environmental conditions

Temperature range	-40 °C/+85 °C

Materials

Insulating body	PA GF, V-0 according to UL94
Contact bush	CuZn, pre-nickel and silver-plated, passivated (3-8 poles) CuZn, pre-nickel and gold-plated (12-14 poles)
Insulating sleeve	PA, V-2 according to UL94
Clamp	PA, V-0 according to UL94
Housing	CuZn, nickel-plated/Zn diecast, pre-copper and nickel-plated
Knurled nut	CuZn, nickel-plated
Seal	CR/EPDM/NBR

Mechanical data

Insertion force/contact	≤ 5.0 N [1]
Withdrawal force/contact	≥ 1.2 N (3-8 poles) ≥ 0.9 N (12-14 poles) [1]
Tightening torque connector	1-3 Nm
Tightening torque nut	1-3 Nm
Protection class	IP68 [2]

[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	≤ 0.75 mm² (AWG 20) (3-8 poles) ≤ 0.25 mm² (AWG 24) (12-14 poles)
Cable diameter	4–8 mm

Electrical data (at T_{amb} 20 °C)

Contact resistance	≤ 5 mΩ
Rated current	5 A (T_{amb} 40 °C, 3-8 poles) 3 A (T_{amb} 40 °C, 12-14 poles)
Rated voltage	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) pollution degree 2: 250 V (versions 03, 04) 160 V (versions 05-1, 06, 07, 12, 14) 32 V (versions 05, 07-1, 08, 08-1)
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

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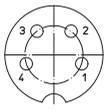
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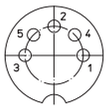
Pin configurations, solder side view



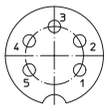
03-a
0321 03



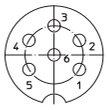
04-a
0321 04



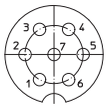
05-b
0321 05



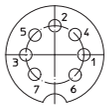
05-a
0321 05-1



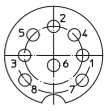
06-a
0321 06



07-a
0321 07



07-b
0321 07-1



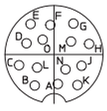
0321 08



08-a
0321 08-1



12-a
0321 12



14-a
0321 14

*a gasket
*b solder cup for iron soldering
*c gasket

Associated products

Counterparts

0314	0314-1	0314-2
0315	0315-1	0315-2
0316	0316-1	0316-2
0317	0317-1	0317-2
031798-1	031798-2	031799-2
0318	0318-1	0318-2
0331	0332	0332-1
033200	0365	036500

Accessories

0322 C 16	0381	038199
038799		

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Designation	Pole Number	PU (Pieces)	MDQ (Pieces)
0321 03	3	50	100
0321 04	4	50	100
0321 05	5	50	100
0321 05-1	5	50	100
0321 06	6	50	100
0321 07	7	50	100
0321 07-1	7	50	100
0321 08	8	50	100
0321 08-1	8	50	100
0321 12	12	50	100
0321 14	14	50	100

Packaging:
sets of individual parts in plastic bags, in a cardboard box