

eco|mate Male receptacle, No. of contacts 3 + PE, 400 V

Part No. C016 20C003 100 12

Series Circular Connectors eco|mate
Subseries Circular Connector eco|mate



View represents all available contact positions.

COMMON CHARACTERISTICS		
No. of contacts		3 + PE
ELECTRICAL CHARACTERISTICS		
Rated voltage	DIN EN 60664-1 / IEC 60664-1	400 V
Rated impulse voltage	DIN EN 60664-1 / IEC 60664-1	6000V
Installation category	DIN EN 60664-1 / IEC 60664-1	III
Insulation group	DIN EN 60664-1 / IEC 60664-1	II
Insulation resistance	DIN EN 60512-2, Test 3a / IEC 60512-2, Test 3a	≥ 10 ⁸ Ω
Contact resistance	DIN EN 60512-2, Test 2a / IEC 60512-2 Test 2a	≤ 5 mΩ
Current carrying capacity	DIN EN 60512-3, Test 5b / IEC 60512-2 Test 5b	16 A / + 55 °C
Pollution degree	DIN EN 60664-1 / IEC 60664-1	3
CLIMATICAL CHARACTERISTICS		
Climatic category	DIN EN 60068-1 / IEC 60068-1	40 / 100 / 56
Operating temperature		-40°C ... +100°C
MECHANICAL CHARACTERISTICS		
IP degree of protection	DIN EN 60529 / IEC 60529	IP 67 / IP 65
Insertion and withdrawal force	DIN EN 60512-13-2, Test 13b / IEC 60512-13-2, Test 13b	≤ 15 N
Mechanical lifetime		≥ 500 mating cycles
MATERIALS		
Insert		Polyamid (PA 6 / PA 6.6)
Colour		black
Contact plating		silver plated
Housing		Polyamid (PA 6 / PA 6.6)
Gasket		Neoprene
FURTHER CHARACTERISTICS		
Termination		screw
Wire gauge		max. 2,5 mm²
Flammability	UL 94	V-0
Locking		screw

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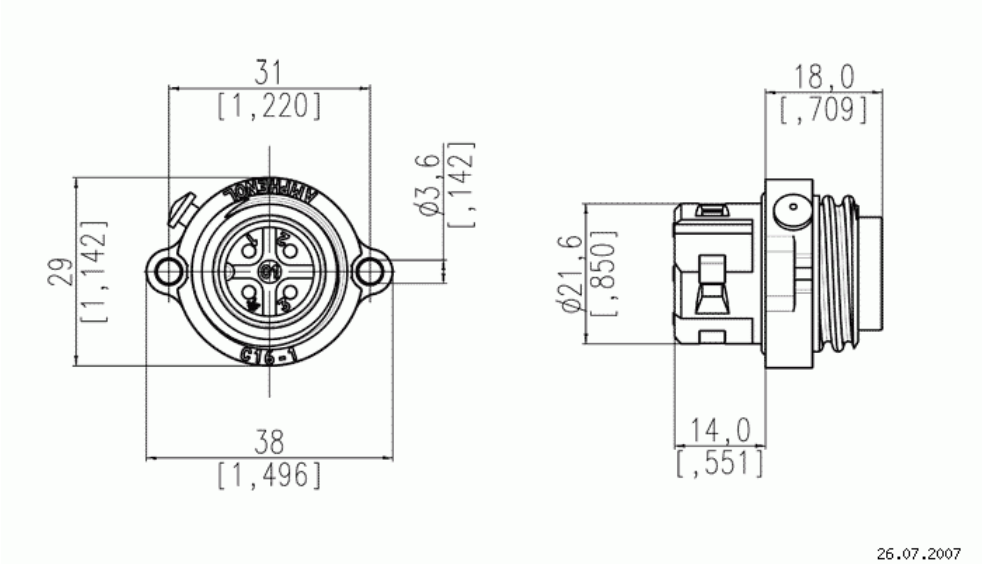
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Drawing Dimensions in mm (Inch)

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Contact arrangement



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Technical drawing of a circular part with the following dimensions and tolerances:

- Outer diameter: $31,0^{+0,2}_0$
- Inner diameter: $\phi 22,0^{+0,2}_0$
- Top hole diameter: $\phi 3,2$ oder M3
- Top hole position: $[,126]$
- Bottom hole diameter: $\phi 3,2$ oder M3
- Bottom hole position: $[,126]$
- Top hole tolerance: $[1,220^{+0,008}_0]$
- Bottom hole tolerance: $[,866^{+0,008}_0]$

**For sealing reasons
this surface needs to be
level and free of burrs**

Dichtfläche in diesem Bereich eben und gratfrei

Panel cutout

26.07.2007