

heavy|mate® - C146 E Contact insert screw termination

Part No. C146 10B016 002 1

Series Heavy duty connectors heavy|mate® - C 146
Subseries Heavy duty connector heavy|mate® - C146 E



View represents all available contact positions.

COMMON CHARACTERISTICS		
No. of contacts		16 + PE
Weight male insert		45 g
Weight female insert		49 g
ELECTRICAL CHARACTERISTICS		
Rated voltage	DIN EN 60664-1 / IEC 60664-1	400 V (600 V UL / CSA)
Rated impulse voltage	DIN EN 60664-1 / IEC 60664-1	6000V
Rated current at 40°C		19 A
Voltage proof	DIN EN 60512-2, Test 4a / IEC 60512-2, Test 4a	2.800 V
Installation category	DIN EN 60664-1 / IEC 60664-1	III
Insulation group	DIN EN 60664-1 / IEC 60664-1	III b
Insulation resistance	DIN EN 60512-2, Test 3a / IEC 60512-2, Test 3a	≥ 10 ¹² Ω
Contact resistance	DIN EN 60512-2, Test 2a / IEC 60512-2 Test 2a	< 5 mΩ
Clearance	DIN VDE 0627	> 4,0 mm
Creepage	DIN VDE 0627	> 6,3 mm
Current carrying capacity	DIN EN 60512-3, Test 5b / IEC 60512-2 Test 5b	see derating curves
Pollution degree	DIN EN 60664-1 / IEC 60664-1	3
CLIMATICAL CHARACTERISTICS		
Climatic category	DIN EN 60068-1 / IEC 60068-1	40 / 125 / 21
Upper temperature		+ 125 °C / 1000h
Lower temperatur		- 40 °C / 16h
MECHANICAL CHARACTERISTICS		
IP degree of protection	DIN EN 60529 / IEC 60529	IP20 unmated
Insertion and withdrawal force	DIN EN 60512-13-2, Test 13b / IEC 60512-13-2, Test 13b	80-100 N
Mechanical lifetime	IEC 60512-5; Test 9 a	≥ 500 mating cycles
MATERIALS		
Insert		PC GV
Colour		grey
Contact plating		silver plated
Knurled screw / Knurled nut		CuZn
FURTHER CHARACTERISTICS		
Termination		screw
Wire gauge		0,25 - 2,5 mm ²
Flammability	UL 94	V-0

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