

C16-3 High Current Version



Advantages

- Higher current carrying capacity within existing housing dimensions
- Vibration safe connection by solid bayonet coupling with lock in position
- Needs no special tools because of screw termination
- Degree of protection IP65
- Lightweight und economical plastic housing
- Applications: photo-voltaic systems, general high current applications, machine tools

General Characteristics	Standards	Value
Number of contacts		4+PE

Electrical Characteristics		
Rated voltage	DIN EN 60664-1 (= VDE 0110-1 = IEC 60664-1)	600 V
Rated impulse withstand voltage	DIN EN 60664-1	6000 V
Pollution Degree	DIN EN 60664-1	3 (mated) 2 (unmated)
Installation (overvoltage) category	DIN EN 60664-1	3
Material group	DIN EN 60664-1	2
Current carrying capacity	DIN EN 60512-5-2, Test 5b UL 1977	41 A / 40°C (6mm ² wire)
Insulation resistance	DIN EN 60512-3-1, Test 3a	>10 ⁸ Ω
Contact resistance	DIN EN 60512-2-1, Test 2a	≤ 5 mΩ

Climatic Characteristics		
Climatic category	DIN EN 60068-1	25/100/56
Operating temperature		-25°C - +100°C

Mechanical Characteristics		
Degree of protection	DIN EN 60529	IP 65
Insertion and withdrawal force	DIN EN 60512-13-2, Test 13b	10 N - 50 N
Mechanical operation	DIN EN 60512, Test 9a	>250 mating cycles

Materials		
Housing material		PA
Dielectric material		PA
Gasket		Widely Neoprene
Contact plating		Silver plated

Other Characteristics		
Termination technique		screw
Wire gauge		2,5 / 4,0 / 6,0 mm ²
Using cable diameters ¹⁾		11 - 20 mm
Flammability	UL 94	V0
Locking system		bayonet

¹⁾ for cable diameter 11 - 13 mm the cable must be fixed shortly behind the connector

Version	Available part numbers
Female cable connector 4 + PE, bayonet	C016 20E004 800 2
Male receptacle 4 + PE, bayonet	C016 20P004 800 2

Further versions and drawings upon request: c16-3@amphenol.de

General Information

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