

eco|mate^m High Voltage Version



Advantages

- ➔ Higher rated voltage within existing housing dimensions
- ➔ Easy and quick assembly
- ➔ One cable housing for all cable diameters 6-12,5 mm (smaller and bigger diameters upon request)
- ➔ Less logistics
- ➔ Ergonomically shaped for a better grip and safer handling , even under harsh working conditions
- ➔ Applications: motion control, measuring and controlling, lighting systems

General Characteristics	Standard	Value
Number of contacts	DIN EN 60664-1	3+PE / 6+PE

Electrical Characteristics		
Rated voltage	DIN EN 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	14A / + 40°C
Insulation resistance	DIN EN 60512-3-1, Test 3a	$\geq 10^8 \Omega$
Contact resistance	DIN EN 60512-2-1, Test 2a	$\leq 5 \text{ m} \Omega$

Climatic Characteristics		
Climatic category	DIN EN 60068-1	40 / 125 / 56
Operating temperature		-40°C - +125°C

Mechanical Characteristics		
Degree of protection	DIN EN 60529	IP 65
Insertion and withdrawal force	DIN EN 60512-13-2, Test 13b	5 N – 35 N
Mechanical operation	DIN EN 60512, Test 9a	≥ 500 mating cycles

Materials		
Housing material		PA
Dielectric material		PA
Gasket material		Neoprene
Contact plating		Silver plated / gold plated

Other Characteristics		
Termination technique		Crimp
Wire gauge / AWG		0,14 - 1,5 mm ² AWG 26-16
Flammability (contact insert)	UL 94	V0
Locking system		Round thread

Version	Available part numbers
Female cable connector 3+PE	C016 10D003 806 12
Female cable connector 6+PE	C016 10D006 806 12
Male receptacle 3+PE	C016 10P003 806 12
Male receptacle 6+PE	C016 10P006 806 12

Drawings and part numbers upon request: ecomate@amphenol.de

General Information

We reserve the right to change the design due to improvement in quality, development or production requirements. This data sheet must not be used in any form or manner without our prior approval in writing (Copyright Law, Fair Trading Law, Civil Code).