

C 16-3

Technical data Shell size 1



General Characteristics	Standard	Technical data					
		Shell size 1					
Number of contacts		2 + PE	3 + PE	8 + PE	14 + PE	12 + 3 + PE	17 + PE
View on termination side of male contact insert							
Electrical Characteristics							
Rated voltage	DIN EN 60664-1 ¹⁾	750 V	900 V	400 V	100 V	3x320V, 12x24V	100 V
	UL 1977, CSA 22.2	-	-	400 V	3x250V, 11x250V	3x250V, 12x24V	250 V
Rated impulse withstand voltage	DIN EN 60664-1 ¹⁾	6000 V	8000 V	6000 V		3x4000V, 12x800V	3000 V
Pollution degree	DIN EN 60664-1 ¹⁾	3	3	3	3	3	3
Installation (overvoltage) category	DIN EN 60664-1 ¹⁾	III	III	III	III	III	III
Material group	DIN EN 60664-1 ¹⁾	III	II	II	II	II	II
Current carrying capacity at +55°C	DIN EN 60512-5-2, Test 5b	36 A	23 A	12 A	3x 16 A, 11x 6 A	3x 12 A, 12x 6 A	6 A
	UL 1977, CSA 22.2	-	-	10 A	3x12A, 11x4A	3x10 A, 12x5 A	5 A
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	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	≤ 25 N	≤ 30 N	≤ 25 N	≤ 30 N	≤ 25 N	≤ 22 N
Mechanical operation	IEC 60512, test 9a	≥ 500 mating cycles					
Materials							
Housing material		Polyamide 6.6					
Dielectric material		Polyamide 6.6					
Gasket material		Neoprene					
Contact plating		silver plated / gold plated					
Other Characteristics							
Termination technique		crimp					
Wire gauge AWG		1.5-6.0 mm ² 16 - 10	0.5-4.0 mm ² 20 - 12	0.14-2.5 mm ² 26 - 14	0.09-2.5 mm ² 28 - 14	0.09-2.5 mm ² 28 - 14	0.09-1.0 mm ² 28 - 18
Flammability	UL 94	VO					
Locking system		Bajonett					



The stated technical values refer to the use as connector.

If these components are used as plug and socket device a reduced current carrying capacity has to be considered.

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Technical data Shell size 2



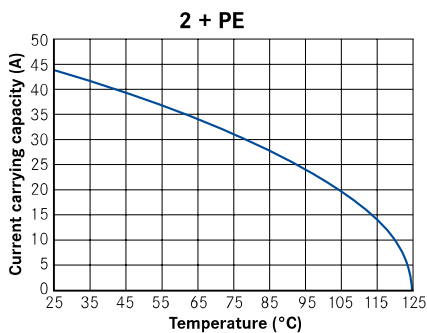
General Characteristics	Standard	Technical data				
		Shell size 1				
Number of contacts		4 + PE	5 + PE	12 + PE	14 + PE	19 + PE
View on termination side of male contact insert						
Electrical Characteristics						
Rated impulse withstand voltage	DIN EN 60664-1 ¹⁾	600 V	400 V	3 x 500 V, 9 x 300 V	400 V	250 V
	UL 1977, CSA 22.2	-	400 V	3 x 400 V, 9 x 250 V	10 x 400 V, 4 x 250 V	250 V
Rated impulse withstand voltage	DIN EN 60664-1 ¹⁾	6000 V	6000 V	3 x 6000 V, 9 x 4000 V	6000 V	4000 V
Pollution degree	DIN EN 60664-1 ¹⁾	3	3	3	3	3
Installation (overvoltage) category	DIN EN 60664-1 ¹⁾	III	III	III	III	III
Material group	DIN EN 60664-1 ¹⁾	II	II	II	II	II
Current carrying capacity at +55°C	DIN EN 60512-5-2, Test 5b	36 A	21 A	3 x 21 A, 9 x 11 A	4 x 6 A, 10 x 12 A	6 A
	UL 1977, CSA 22.2	-	16 A	3 x 10 A, 9 x 5 A	10 x 10 A, 4 x 5 A	5 A
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	40 / 100 / 56	40 / 125 / 56		
Operating temperature		-25°C...+100°C		-40°C ... +125°C (5 + PE: +100°C)		
Mechanical Characteristics						
Degree of protection	DIN EN 60529	IP 65				
Insertion and withdrawal force	DIN EN 60512-13-2, test 13b	≤ 50 N	≤ 15 N	≤ 25 N	≤ 30 N	≤ 25 N
Mechanical operation	DIN EN 60512-9-1, test 9a	≥ 250 mating cycles	≥ 500 mating cycles			
Materials						
Housing material		Polyamide 6.6				
Dielectric material		Polyamide 6.6				
Gasket material		Neoprene				
Contact plating		versilbert / vergoldet				
Other Characteristics						
Termination technique		screw		crimp		
Wire gauge AWG		2.5 - 6.0 mm ² 14 - 10	4 mm ² 12	0.09 - 2.5 mm ² 28 - 14	0.09 - 2.5 mm ² 28 - 14	0.09 - 1.0 mm ² 28 - 18
Flammability	UL 94	VO				
Locking system		bayonet				



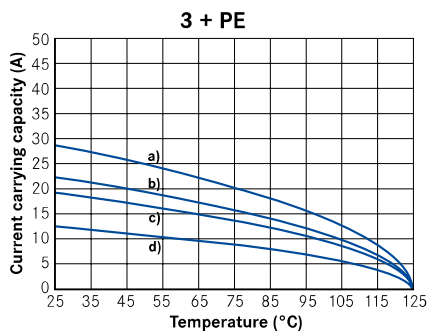
The stated technical values refer to the use as connector.

If these components are used as plug and socket device a reduced current carrying capacity has to be considered.

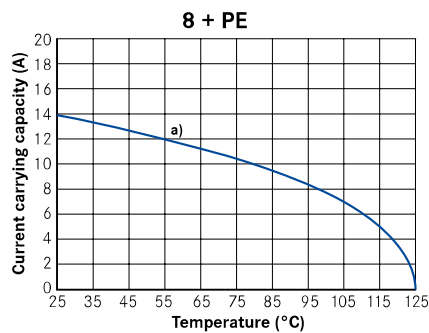
Shell size 1



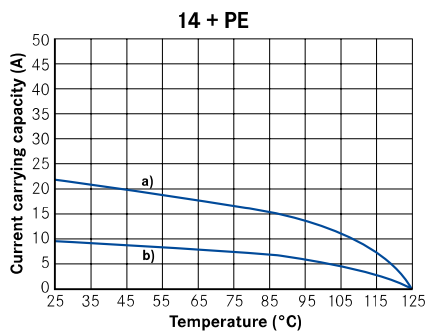
all contacts \varnothing 2,5 mm
Pin 4mm² - Socket 6mm²



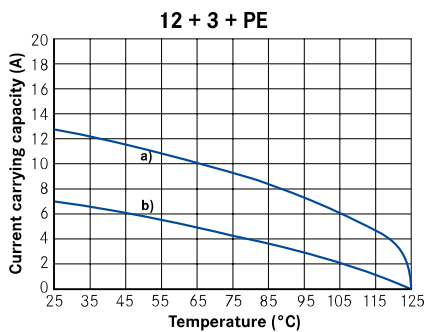
all contacts \varnothing 2,5 mm
a) wire 4,0 mm² c) wire 1,5 mm²
b) wire 2,5 mm² d) wire 0,5 mm²



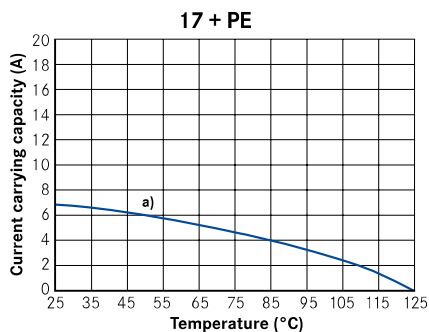
all contacts \varnothing 1,6 mm
a) wire gauge 1,5 mm²



a) 4 contacts \varnothing 2,5 mm, wire gauge 1,5 mm²
b) 11 contacts \varnothing 1,5 mm, wire gauge 0,5 mm²

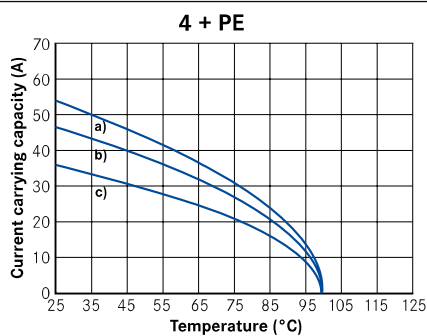


a) 4 contacts \varnothing 1,6 mm, wire gauge 1,5 mm²
b) 12 contacts \varnothing 1,5mm, wire gauge 0,5 mm²

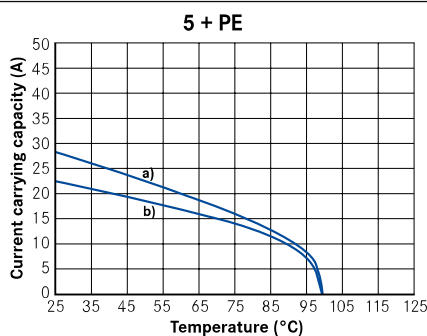


all contacts \varnothing 1,5 mm
a) wire gauge 0,5 mm²

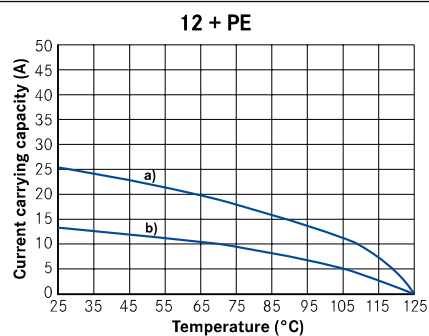
Shell size 2



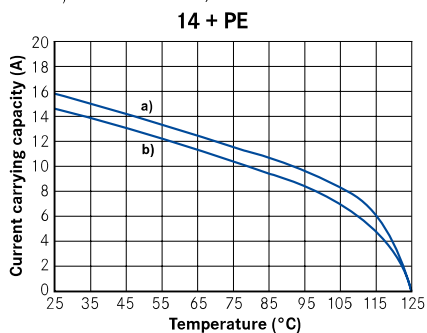
all contacts \varnothing 2,5 mm
a) 4 contacts loaded 6mm² b) 4 contacts loaded 4mm²
c) 4 contacts loaded 2,5mm²



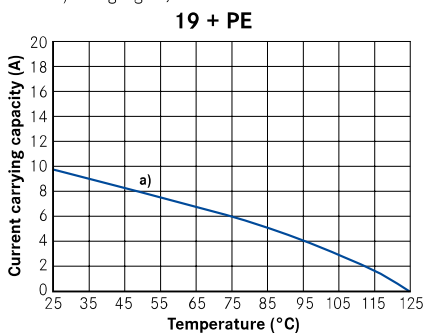
all contacts \varnothing 2,5 mm
a) wire gauge 4,0 mm²
b) wire gauge 2,5 mm²



a) 4 contacts \varnothing 2,5 mm, wire gauge 2,5 mm²
b) 9 contacts \varnothing 1,6 mm, wire gauge 2,5 mm²



a) 11 contacts \varnothing 1,6 mm, wire gauge 1,5 mm²
b) 4 contacts \varnothing 1,5mm, wire gauge 0,5 mm²



all contacts \varnothing 1,5 mm
a) wire gauge 0,5 mm²