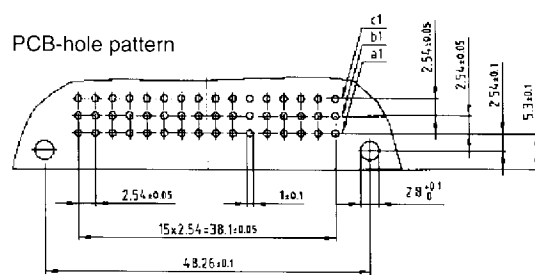
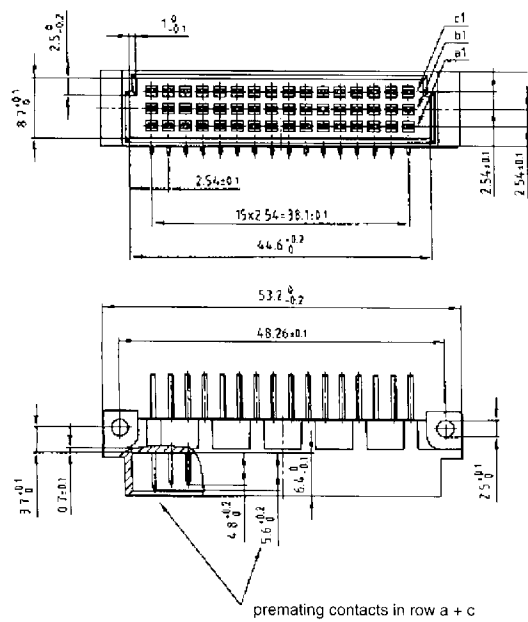
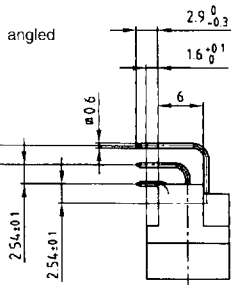


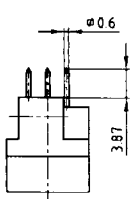
Male connector  
– Contact spacing  
2.54 and 5.08 mm –



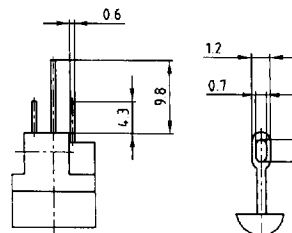
Kinds of contacts



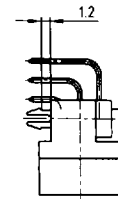
Solder pin



Solder lug



angled with clip

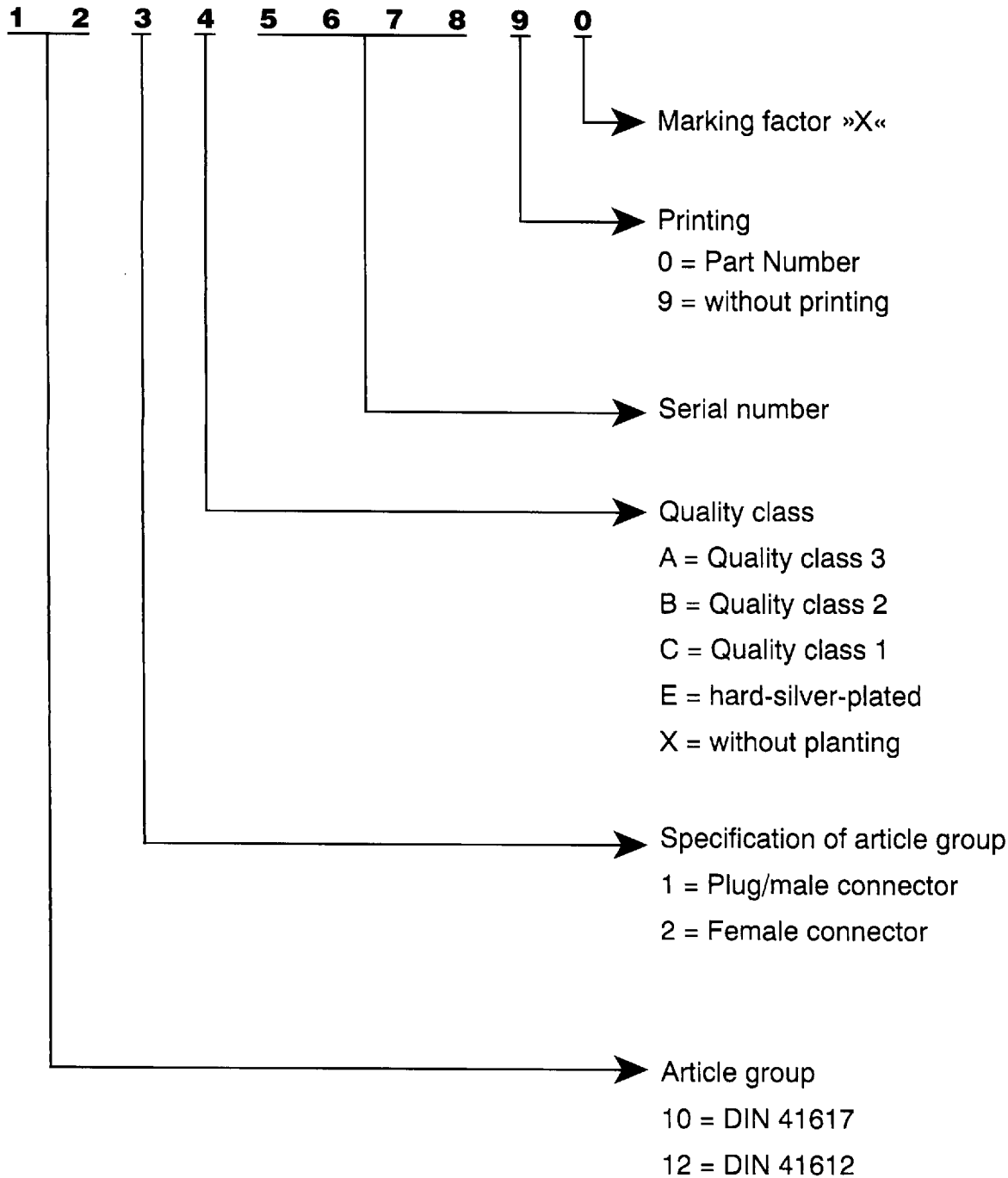


Part numbers

Kat 111GA

No. of Pos.	Version	Male connector – Contact spacing 2.54 and 5.08 mm			
		angled	Solder pin	Solder lug	angled with clip
16		HC 16 M 3 A a 121 A 10349 X	HC 16 M 3 P a 121 A 10399 X	HC 16 M 3 L a 121 A 10449 X	HC 16 M 3 AC a 121 A 20929 X
16		HC 16 M 3 A a + c 121 A 10359 X	HC 16 M 3 P a + c 121 A 10409 X	HC 16 M 3 L a + c 121 A 10459 X	HC 16 M 3 AC a + c 121 A 20939 X
32		HC 32 M 3 A a + b 121 A 10369 X	HC 32 M 3 P a + b 121 A 10419 X	HC 32 M 3 L a + b 121 A 10469 X	HC 32 M 3 AC a + b 121 A 20949 X
32		HC 32 M 3 A a + c 121 A 10379 X	HC 32 M 3 P a + c 121 A 10429 X	HC 32 M 3 L a + c 121 A 10479 X	HC 32 M 3 AC a + c 121 A 20959 X
48		HC 48 M 3 A a + b + c 121 A 10389 X	HC 48 M 3 P a + b + c 121 A 10439 X	HC 48 M 3 L a + b + c 121 A 10489 X	HC 48 M 3 AC a + b + c 121 A 20969 X

### Part Number



### Order example

Male connector type C 64 pos. angled solder pin without printing	
Quality class	Part Number
<b>3</b>	C 64 M 3 A a + c <b>121 A 10139 X</b>
<b>2</b>	C 64 M 2 A a + c <b>121 B 10139 X</b>
<b>1</b>	C 64 M 1 A a + c <b>121 C 10139 X</b>

■ 9017935 0000163 041 ■

Technical Data		DIN 41617	DIN 41617/ 41612	Type B	Type B/2	Type C	Type C/2	Type M	
Initial contact resistance		≤ 15 mΩ	≤ 10 mΩ	≤ 20 mΩ	≤ 20 mΩ	≤ 20 mΩ	≤ 20 mΩ	≤ 20 mΩ	
Initial insulation resistance		QUAL. CL 1 QUAL. CL 2 QUAL. CL 3	≥ 10 <sup>12</sup> Ω ≥ 10 <sup>11</sup> Ω ≥ 10 <sup>10</sup> Ω	≥ 10 <sup>11</sup> Ω ≥ 10 <sup>12</sup> Ω ≥ 10 <sup>11</sup> Ω	≥ 10 <sup>12</sup> Ω ≥ 10 <sup>12</sup> Ω ≥ 10 <sup>11</sup> Ω	≥ 10 <sup>12</sup> Ω ≥ 10 <sup>12</sup> Ω ≥ 10 <sup>11</sup> Ω	≥ 10 <sup>12</sup> Ω ≥ 10 <sup>12</sup> Ω ≥ 10 <sup>11</sup> Ω	≥ 10 <sup>12</sup> Ω ≥ 10 <sup>12</sup> Ω ≥ 10 <sup>11</sup> Ω	
Clearance distance		Contact/ground Contact/contact	≥ 1 mm ≥ 0,5 mm	≥ 1,2 mm	≥ 1,2 mm ≥ 1,2 mm	≥ 1,2 mm ≥ 1,2 mm	≥ 1,2 mm ≥ 1,2 mm	≥ 1,2 mm ≥ 1,2 mm	
Creepage distance		Contact/ground Contact/contact	≥ 1 mm ≥ 1,0 mm	≥ 1,2 mm	≥ 1,2 mm ≥ 1,2 mm	≥ 1,2 mm ≥ 1,2 mm	≥ 1,2 mm ≥ 1,2 mm	≥ 1,2 mm ≥ 1,2 mm	
Test voltage V r.m.s.		Contact/ground Contact/contact	900 V 1150 V	1000 V 1550 V	1000 V 1550 V	1000 V 1550 V	1000 V 1550 V	1000 V 1550 V	
Working voltage*			250 V	250 V	250 V	250 V	250 V	250 V	
Insulation group*			A	A	A	A	A	A	
Working current **		+ 20° C + 70° C + 100° C	GT 1+2 = 4 A max. 4 A max. GT 3 = 2 A max.	2 A 1 A 0,5 A	2 A 1 A 0,5 A	2 A 1 A 0,5 A	2 A 1 A 0,5 A	2 A 1 A 0,5 A	
Operating temperature		Quality cl. I Quality cl. II Quality cl. III	-65° ... + 125° C -55° ... + 125° C -25° ... + 85° C	-65° ... + 125° C	-55° C ... +125° C	-55° C ... +125° C	-55° C ... +125° C	-55° C ... +125° C	
Moulding material		PC = Polycarbonat PBTP = Polyester PA = Polyamid	X  	X  	X X X	X X X	X X X	X X X	
Contact material									
Coding system		with coding without coding	 X	 X	X  	X  	X  	X  	
Flammability		PC = Polycarbonat PBTP = Polyester PA = Polyamid			UL 94 V-1				
					UL 94 V-0				
					UL 94 H-B				
Insertion and withdrawal forces		F max. F max. F max.	13p. 32 N/AU • 30 N/AG 21p. 33 N/AU • 46 N/AG 31p. 48 N/AU • 70 N/AG		32p 30N 64p 60N	16p 15N 32p 30N	32p 30N 64p 60N	16p 15N 32p 30N	78+2p 90 52+2p 75 60+4p 85 40+4p 70 42+6p 85 28+6p 70 24+8p 80
Life		Quality class 1 ≥ 500 cycles Quality class 2 ≥ 400 cycles Quality class 3 ≥ 50 cycles AG	X X X X	X   	X X X	X X X	X X X	X X X	

\* according to SEV 50 V

\*\* Derating diagrams see page 189