

PCB Connectors Derived from MIL 55302, also for Multilayer and Flex PCB

- High robustness
- Special designs available
- 10-54 way
- Locking and guiding hardware
- Hyperboloid contacts
- Flex termination, solder cup, straight and R/A through board solder (TBS), crimp
- RoHS compliant

Technical Characteristics

Material

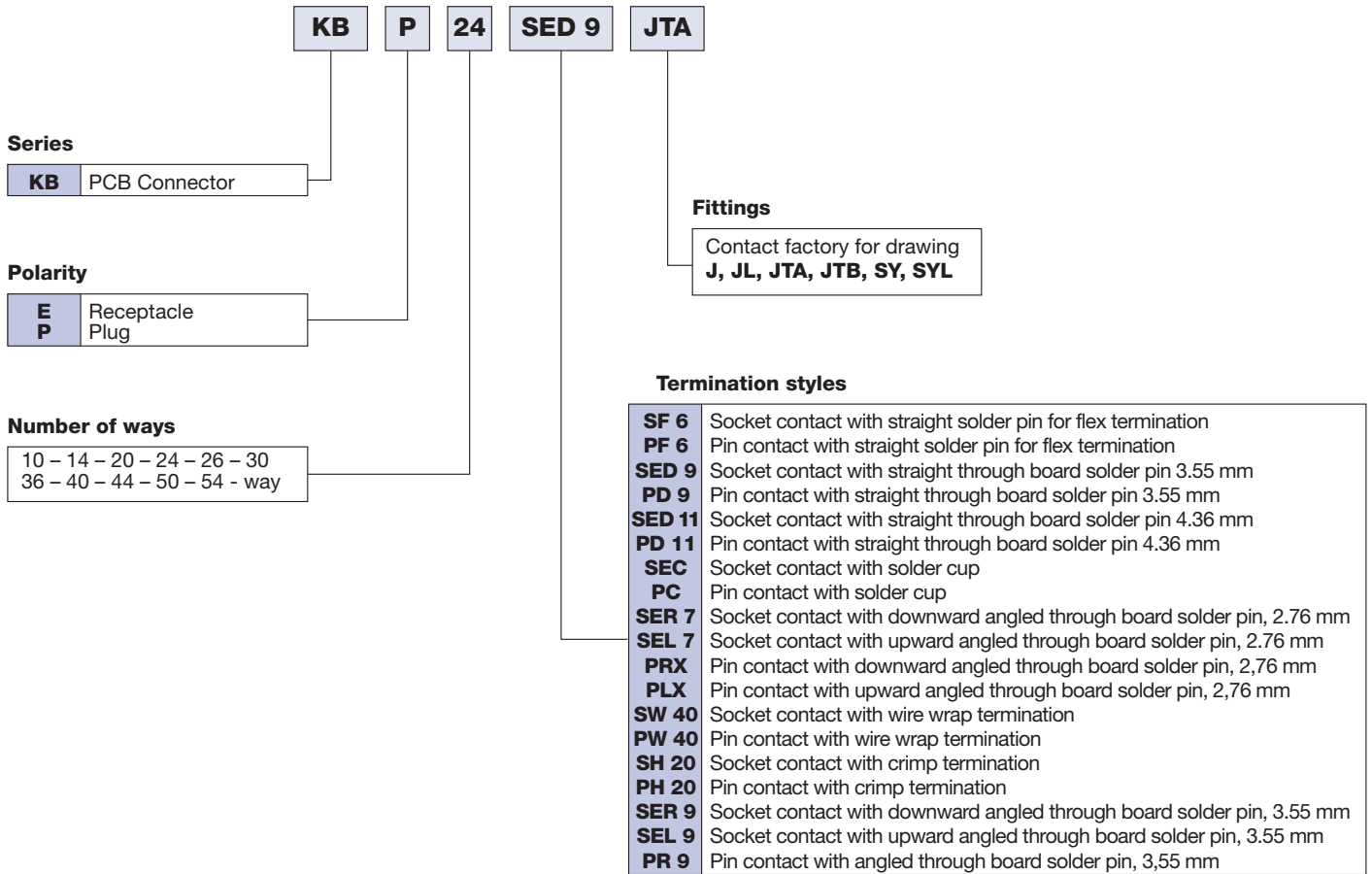
Insulating body	PPS
Flamability UL94	V-0
Contact type	Hyperboloid Contacts 0,76 mm
Contacts	Brass
Contact plating	gold plated
Guiding and coding	Stainless steel

Electrical Data

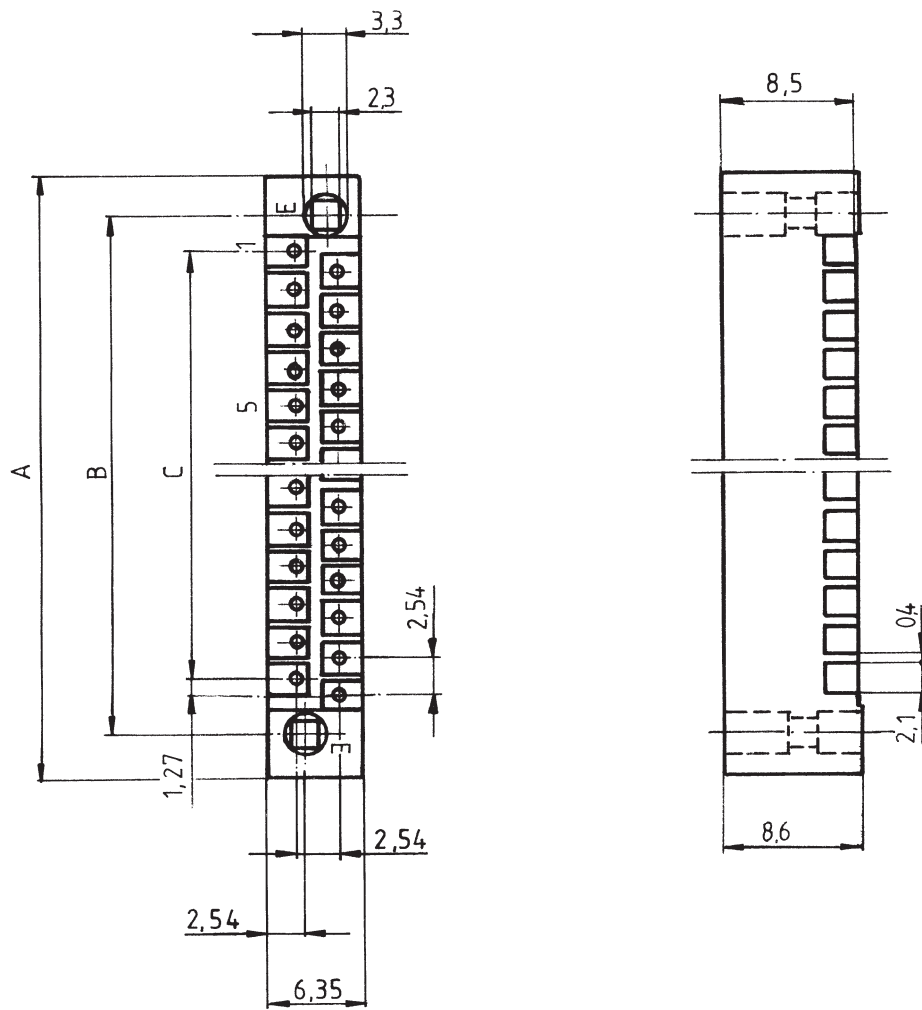
Nominal current	6 Amp. with 20 mV potential difference
Contact resistance	<6 mΩ
Insulating resistance	>10 MΩ
Insulation test voltage	1400 V
Climatic category	434 (-55 °C to +125 °C / 56 days)
Pitch	2,54 mm center-to-center-spacing 1,27 mm row-to-row spacing

The insulating body can be fitted either with socket or pin contacts. The guiding and coding happens by cogging of the guiding pins which are interchangeable, both in the female and in the male parts. For the 10 - 54 way connectors different fixing is available.

Ordering Information



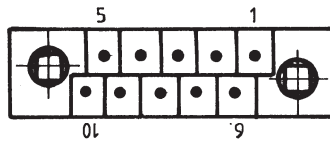
Dimension female part 10 - 54 way



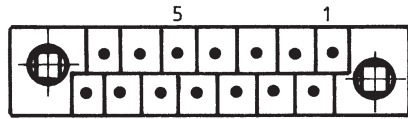
No. of ways	A	B	C
10	21,59	16,51	10,16
14	26,67	21,59	15,24
20	34,29	29,21	22,86
24	39,37	34,29	27,94
26	41,91	36,83	30,48
30	46,99	41,91	35,56
36	54,61	49,53	43,18
40	59,69	54,61	48,26
44	64,77	59,69	53,34
50	72,39	67,31	60,96
54	77,47	72,39	66,04

Insulation body numbering 10 - 54 way: female part view bottom side

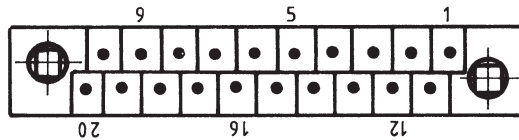
KBE 10



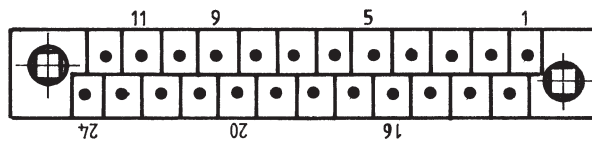
KBE 14



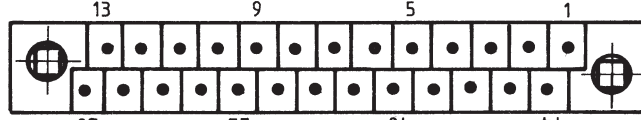
KBE 20



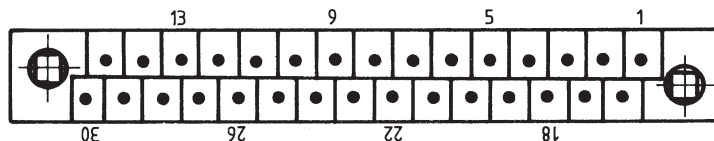
KBE 24



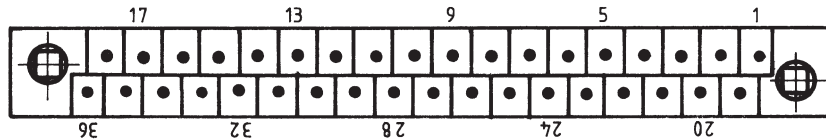
KBE 26



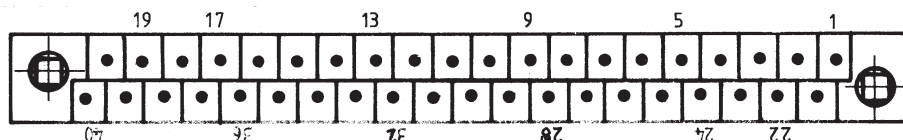
KBE 30



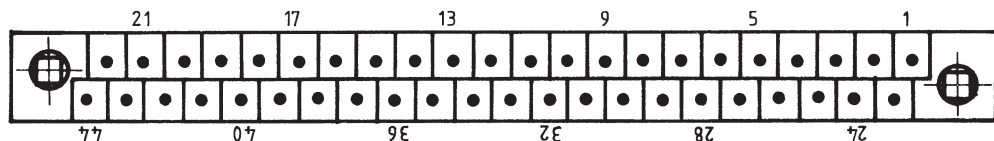
KBE 36



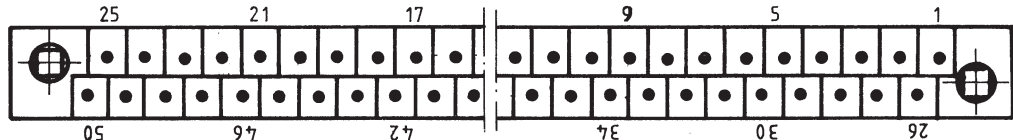
KBE 40



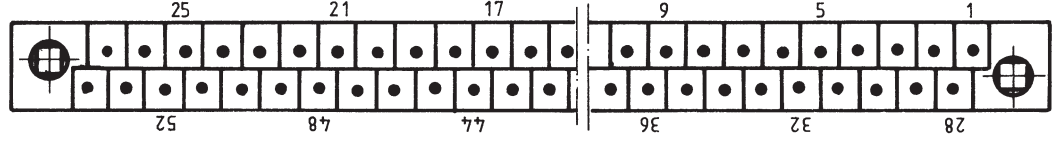
KBE 44

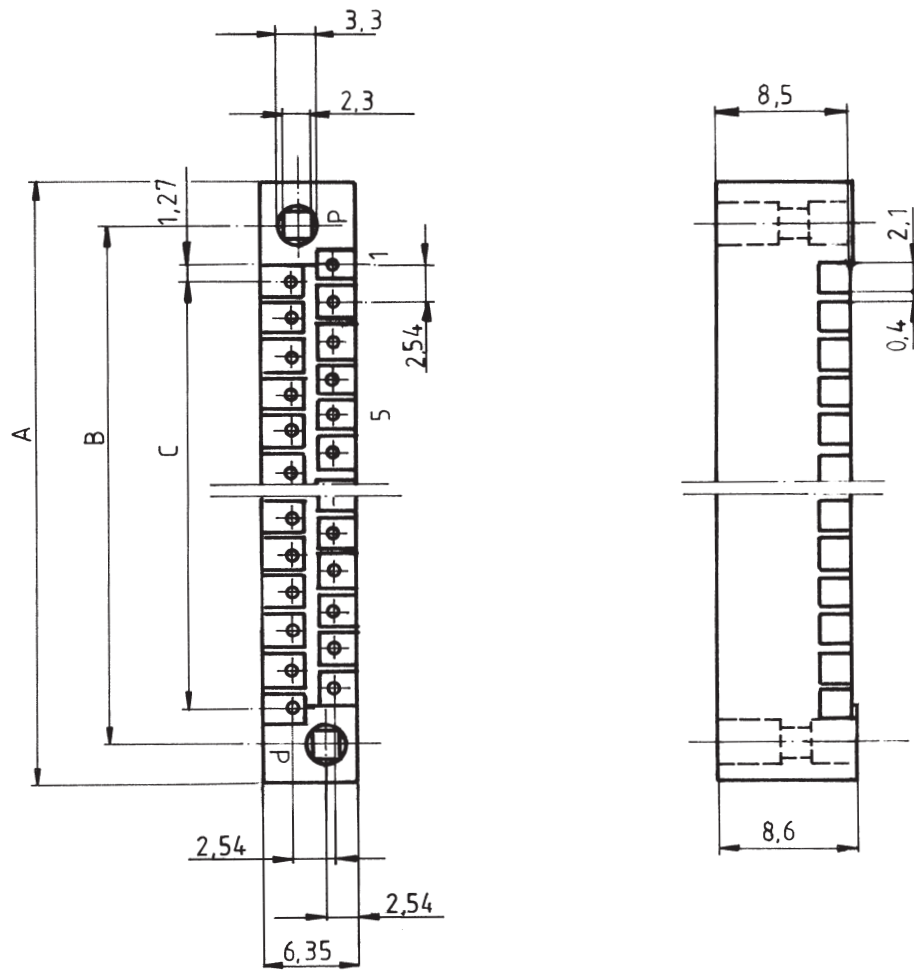


KBE 50



KBE 54

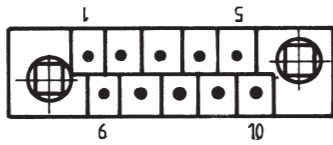


Dimension male part 10 - 54 way


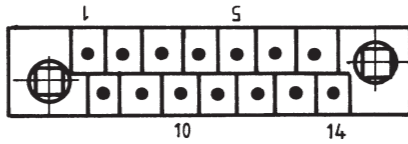
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44	64,77	59,69	53,34
50	72,39	67,31	60,96
54	77,47	72,39	66,04

Insulation body numbering 10 - 54 way: male part view bottom side

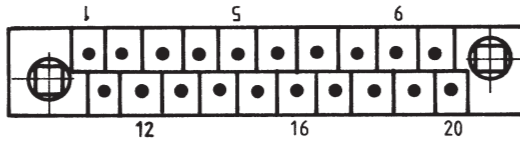
KBP 10



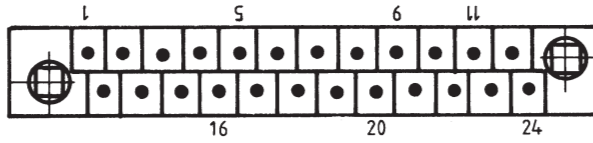
KBP 14



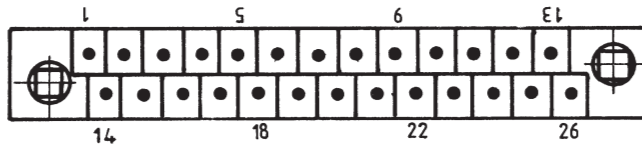
KBP 20



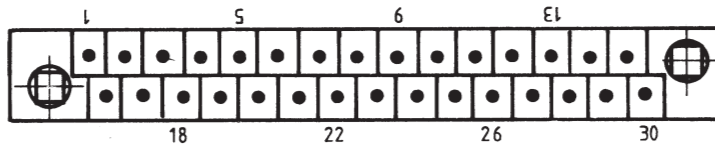
KBP 24



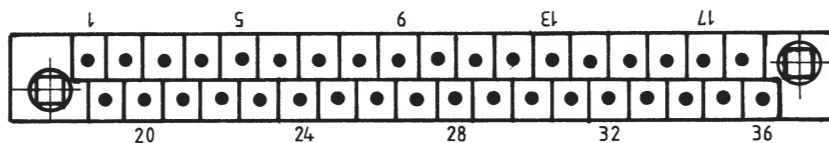
KBP 26



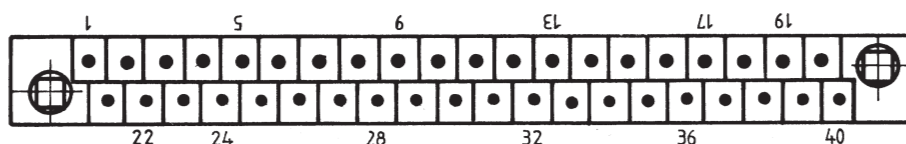
KBP 30



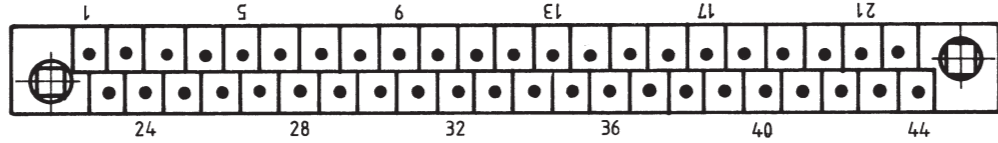
KBP 36



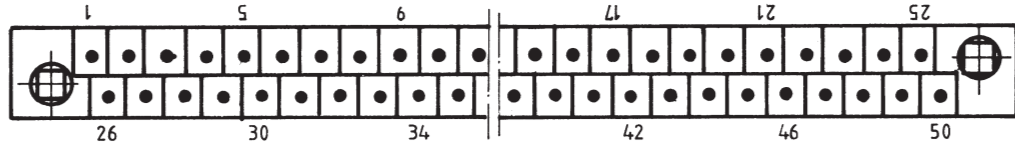
KBP 40



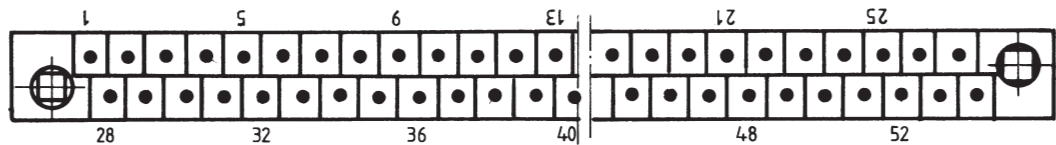
KBP 44

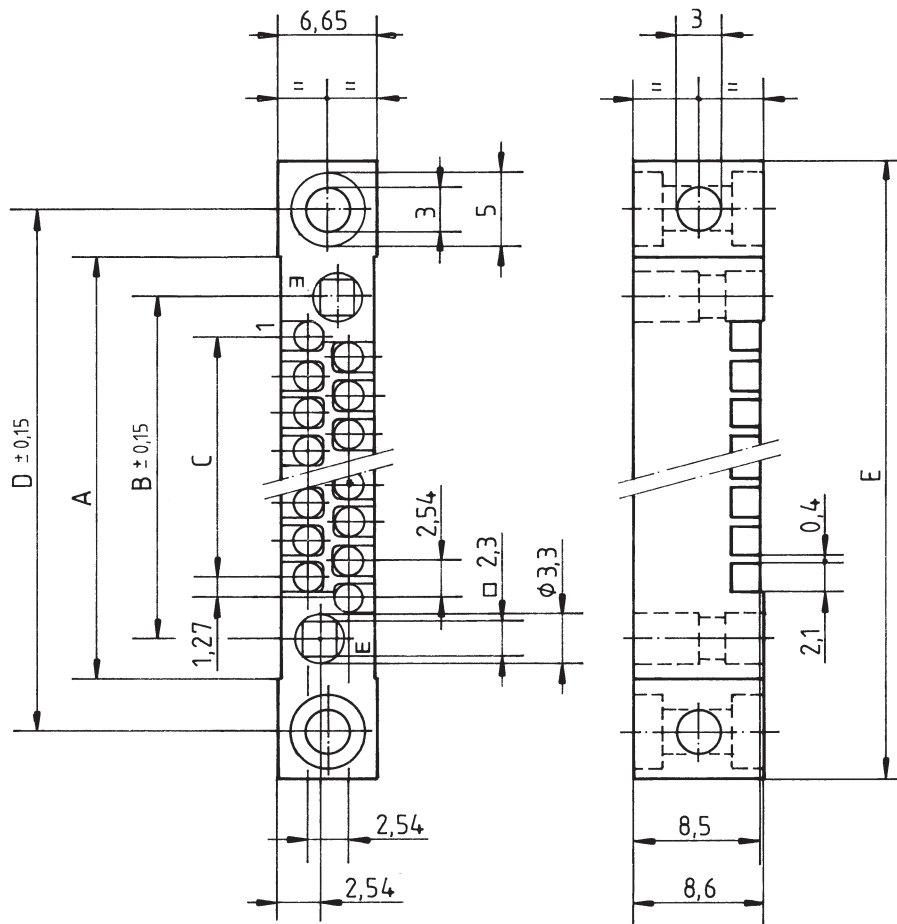


KBP 50



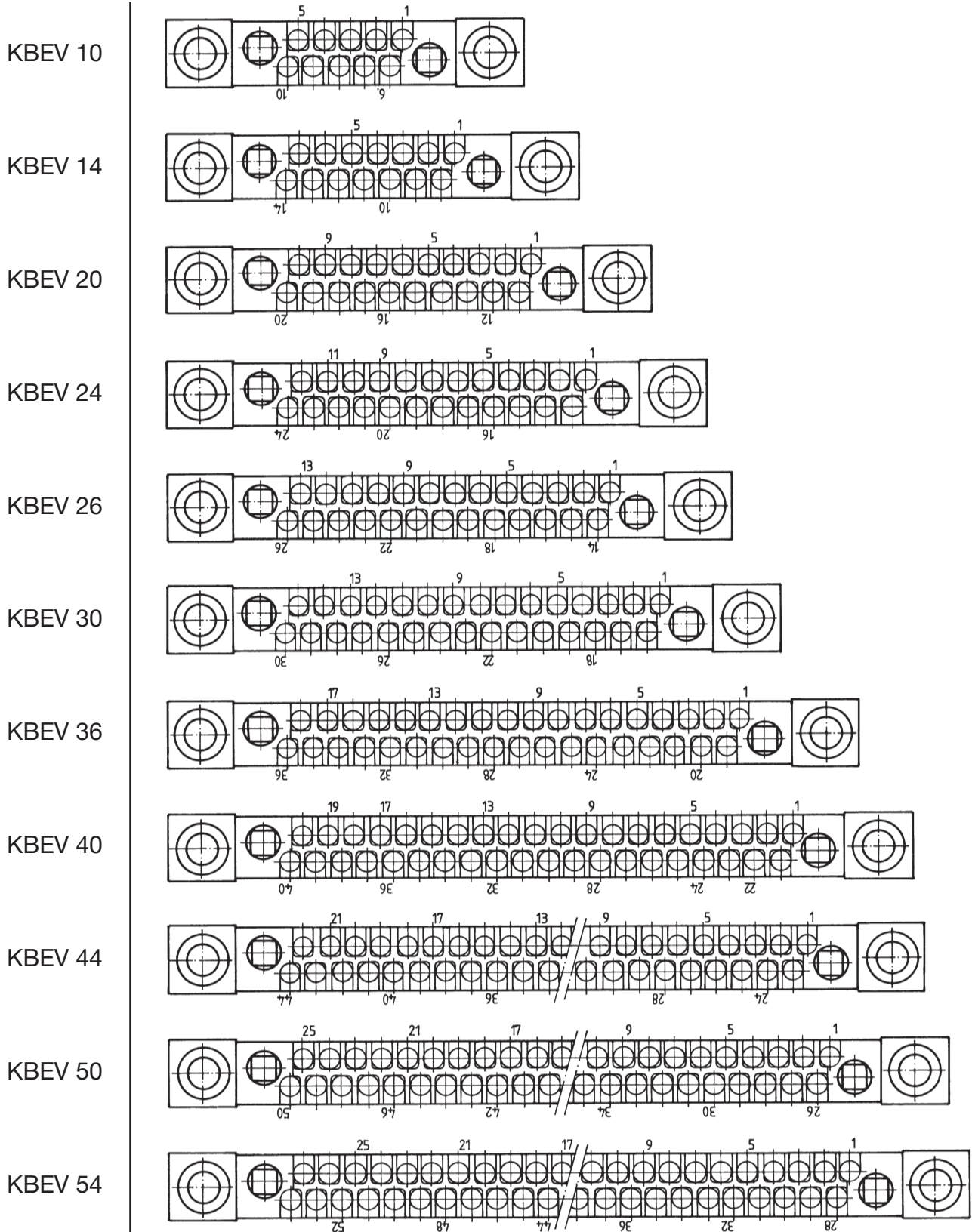
KBP 54

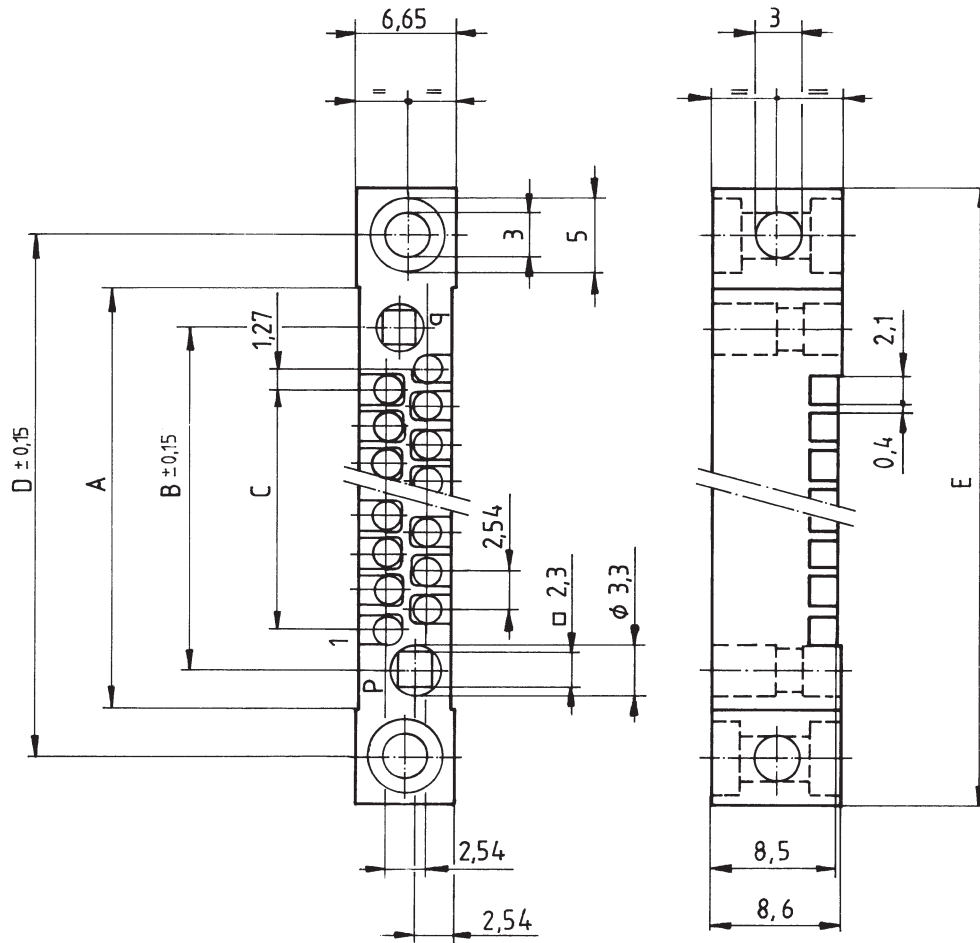


Dimension female part 10 - 54 way


Type	A	B	C	D	E
KBEV10	21,59	16,51	10,16	27,94	34,29
KBEV14	26,67	21,59	15,24	33,02	39,37
KBEV20	34,29	29,21	22,86	40,64	46,99
KBEV24	39,37	34,29	27,94	45,72	52,07
KBEV26	41,91	36,83	30,48	48,26	54,61
KBEV30	46,99	41,91	35,56	53,34	59,69
KBEV36	54,61	49,53	43,18	60,96	67,31
KBEV40	59,69	54,61	48,26	66,04	72,39
KBEV44	64,77	59,69	53,34	71,12	77,47
KBEV50	72,39	67,31	60,96	78,74	85,09
KBEV54	77,47	72,39	66,04	83,82	90,17

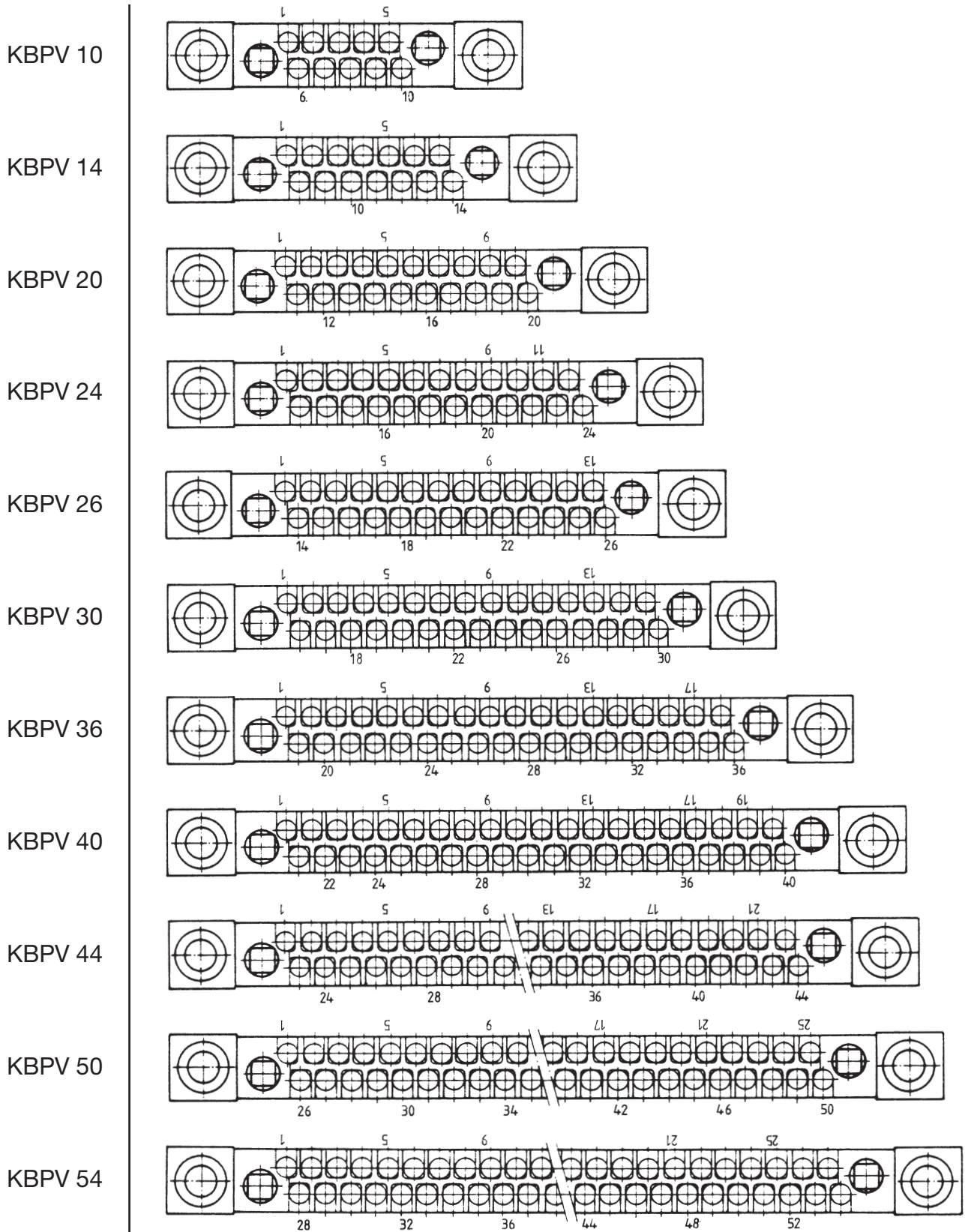
Numbering of insulation bodies with additional fixing holes for direct PCB mounting 10 - 54 way: female part view bottom side



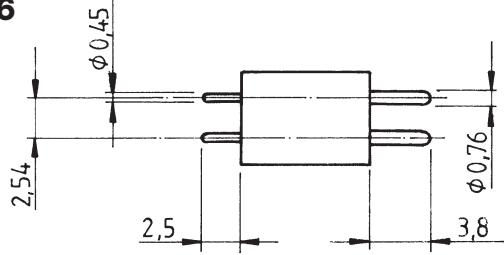
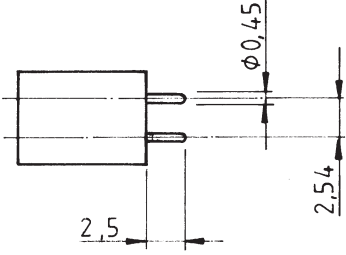
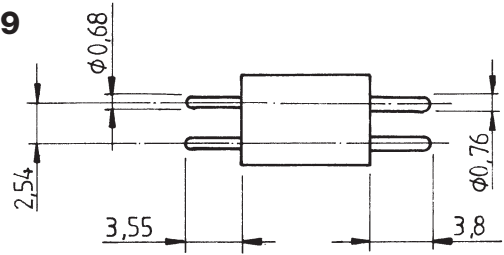
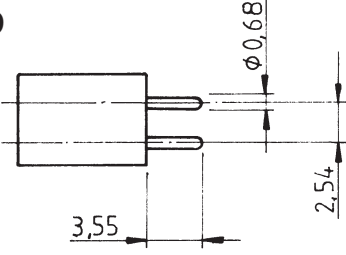
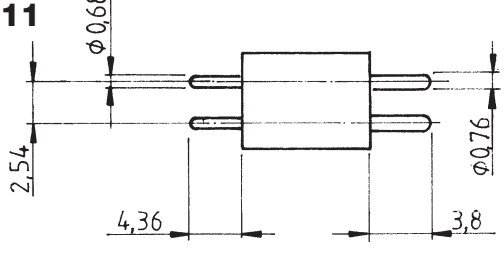
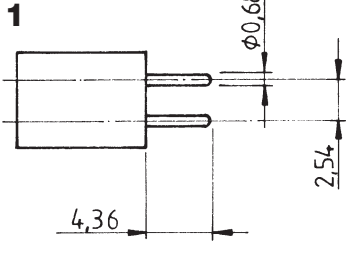
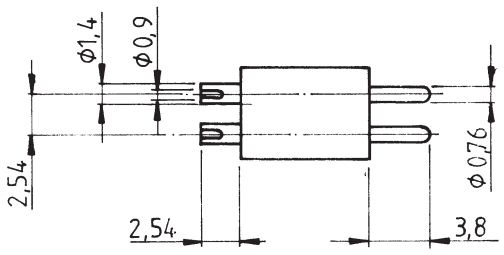
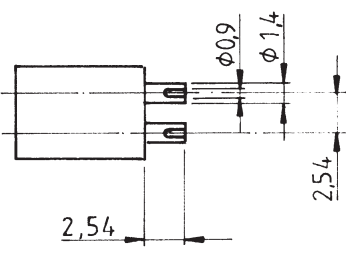
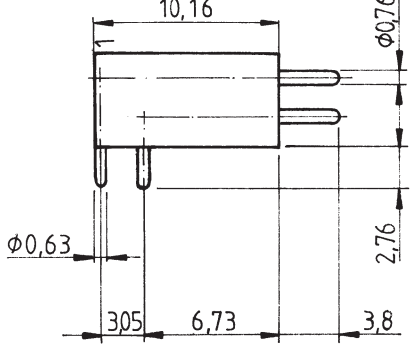
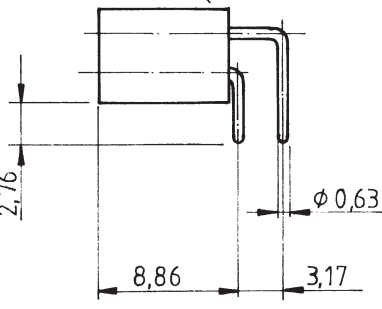
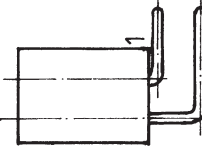
Dimension male part 10 - 54 way


Type	A	B	C	D	E
KBPV10	21,59	16,51	10,16	27,94	34,29
KBPV14	26,67	21,59	15,24	33,02	39,37
KBPV20	34,29	29,21	22,86	40,64	46,99
KBPV24	39,37	34,29	27,94	45,72	52,07
KBPV26	41,91	36,83	30,48	48,26	54,61
KBPV30	46,99	41,91	35,56	53,34	59,69
KBPV36	54,61	49,53	43,18	60,96	67,31
KBPV40	59,69	54,61	48,26	66,04	72,39
KBPV44	64,77	59,69	53,34	71,12	77,47
KBPV50	72,39	67,31	60,96	78,74	85,09
KBPV54	77,47	72,39	66,04	83,82	90,17

Numbering of insulation bodies with additional fixing holes for direct PCB mounting 10 - 54 way: male part view bottom side



Termination styles
Pin contact
Socket contact

Flex termination	<p>PF 6</p> 	<p>SF 6</p> 
TBS	<p>PD 9</p> 	<p>SED 9</p> 
TBS	<p>PD 11</p> 	<p>SED 11</p> 
Solder cup	<p>PC</p> 	<p>SEC</p> 
R/A TBS	<p>PR 7*</p> 	<p>SER 7</p> 
	<p>* Material of insulating body: DAP pins moulded</p>	<p>SEL 7</p> 

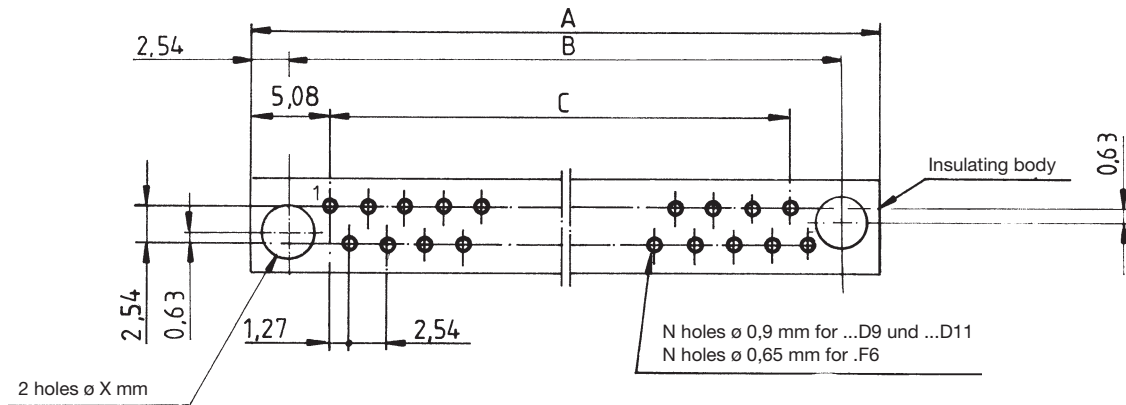
Dimensions are in mm

Termination styles

	Pin contact	Socket contact								
Straight wire wrap	<p>PW 40</p>	<p>SW 40</p>								
R/A TBS	<p>PRX</p> <p>PLX</p> <p>Measurement different to IEH/Airborn/TJ</p>									
Crimp termination with removable contacts	<p>PH 20</p> <p>AWG 20-24</p>	<p>SH 20</p> <p>AWG 20-24</p>								
	<table border="1"> <thead> <tr> <th colspan="2">Part Number</th> </tr> </thead> <tbody> <tr> <td>Extraction tool:</td> <td>B 048</td> </tr> <tr> <td>Crimping tool:</td> <td>Buchanan M 22520/2-01</td> </tr> <tr> <td>Positioner:</td> <td>B 049</td> </tr> </tbody> </table> <p>Only available for insulating body types KBE and KBP, not available for insulating body types KBEV and KBPV</p>		Part Number		Extraction tool:	B 048	Crimping tool:	Buchanan M 22520/2-01	Positioner:	B 049
Part Number										
Extraction tool:	B 048									
Crimping tool:	Buchanan M 22520/2-01									
Positioner:	B 049									
R/A TBS	<p>PR 9</p>	<p>SER 9</p> <p>SEL 9</p>								

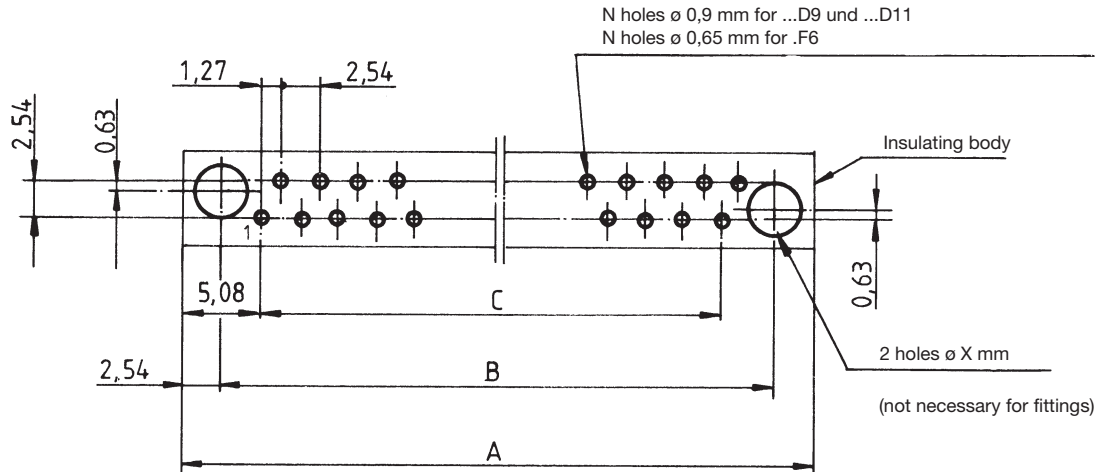
Dimensions are in mm

Motherboard connection diagram, female part top view

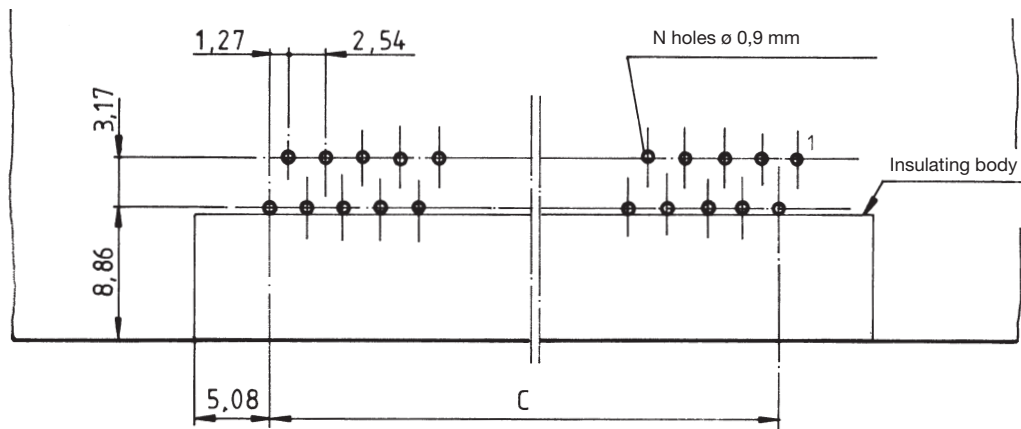


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44	64,77	59,69	53,34
50	72,39	67,31	60,96
54	77,49	72,39	66,04

Daughterboard connection diagram, male part top view

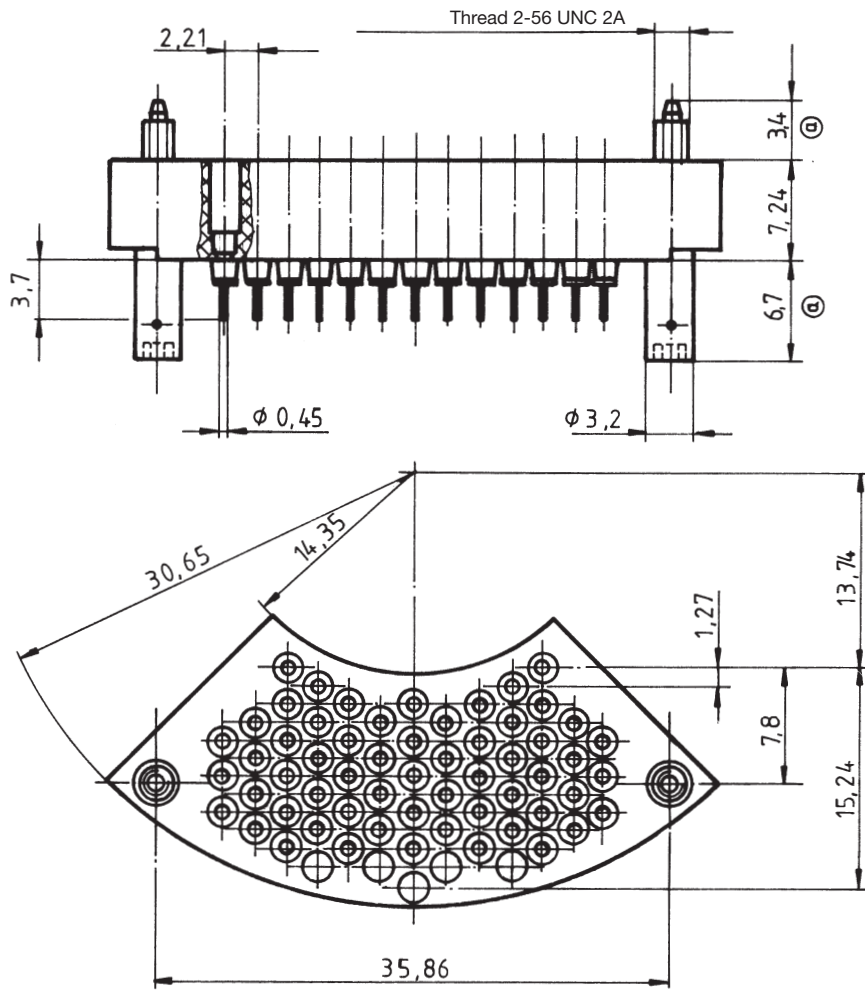


Type PRX, PR9, SER7, SER9

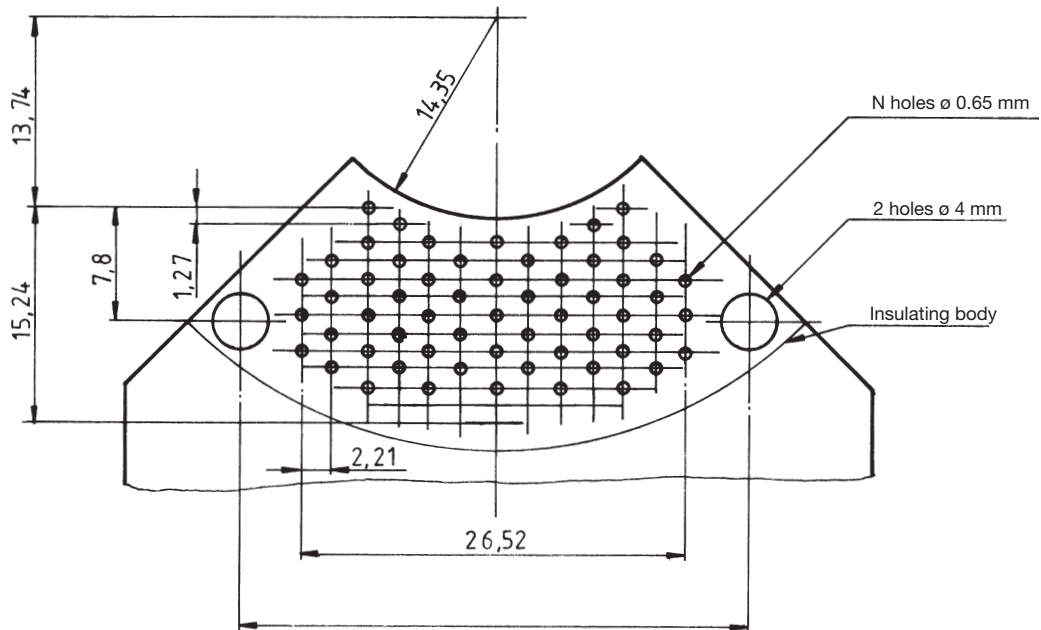


Dimension for segment connector 59 way female part

Part Number
KB 59 SP SF6 JTB



Connection diagram female part



Dimensions are in mm

