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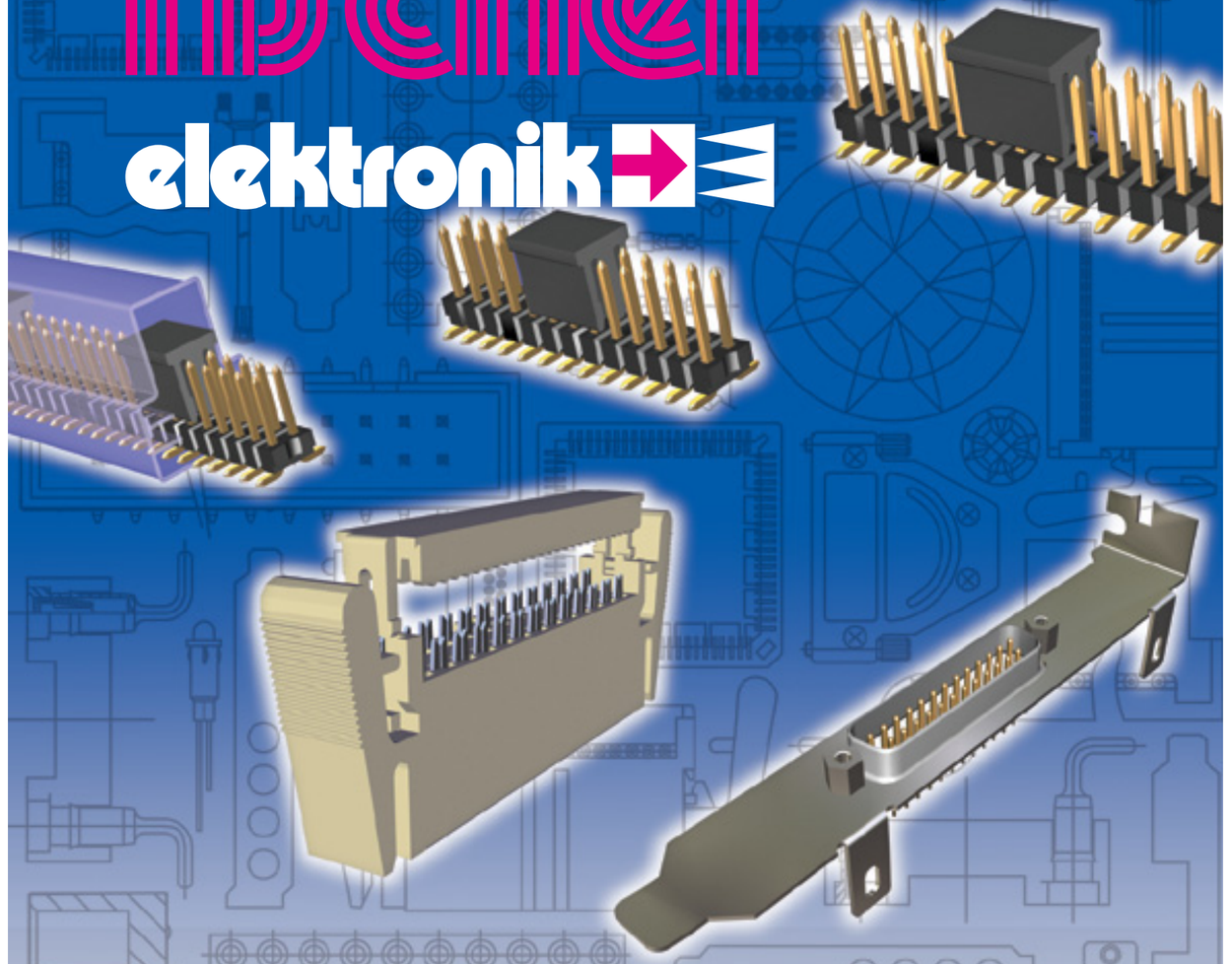

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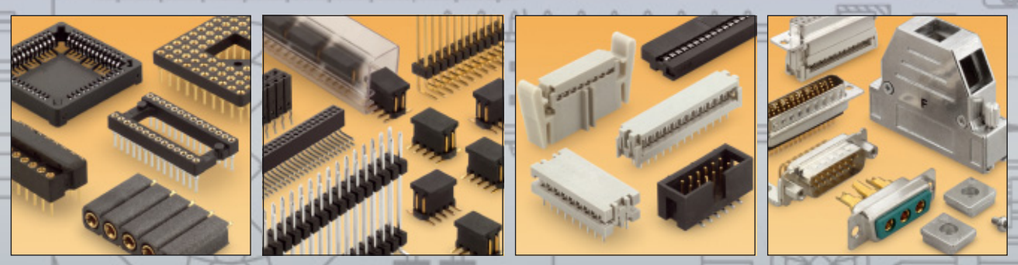
TÜV ISO 14001

TÜV CERT ISO 9001



Sockets | **Connectors** | **Brackets**

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art. no.	HEATSINKS & CASES SURFACES
AL	raw degreased aluminium
BZ	raw pickled aluminium
LP	outside black lacquered RAL 9005/transparent passivated
ME	clear anodised
MI	solderable surface
SA	black anodised
TP	chrome-free transparent passivated

art. no.	CONNECTOR CONTACT SURFACE FINISH
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S	selective gold plating
Z	tinned

art. no.	RAL	COLOURS	ARTICLES
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K	7032	gravel grey	bench cases
LG	7035	light grey	shell cases
NB	5022	night blue	19″ system cases RackCase/shell cases
S	9005	deep black	bench cases/shell cases/19″ system cases RackCase
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High-precision contacts, loose

Female contacts for Ø 0.5 mm

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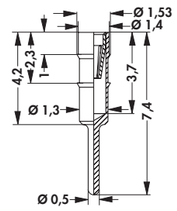
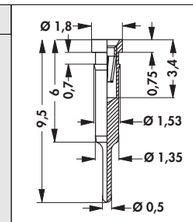
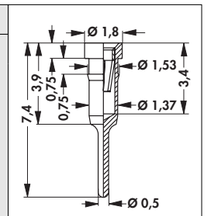
1706 ... ... G		PEK ... ... G		PK 1 ... ... G ... Z	
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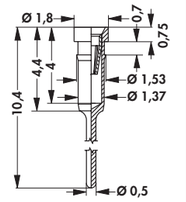
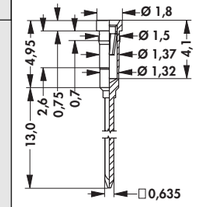
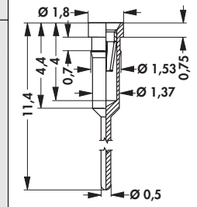
1831 ... ... Z		WWPS 1 ... ... G		SK 06 ... ... G ... Z	
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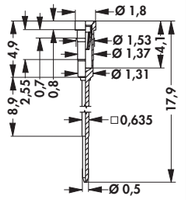
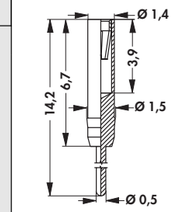
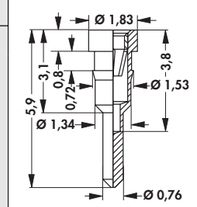
SK 13 X 2 ... ... G		TF ... ... G		SK 19 ... ... G ... Z	
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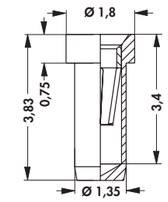
SIL 1 ... ... G ... Z					

Female contact for 0.64 mm □ and Ø 0.80 mm

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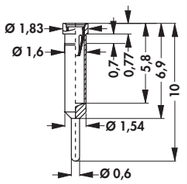
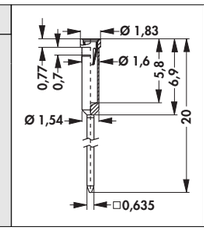
SKB 5 ... ... Z		SKB 9 ... ... Z			

contact shell surface: tin-plated
contact spring: gold-plated

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2.54

High-precision contacts, loose

Contacts with solder head

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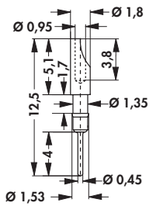
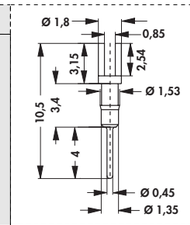
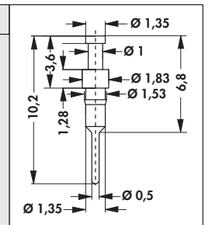
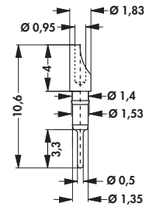
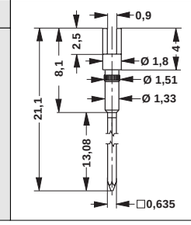
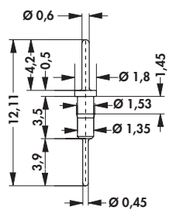
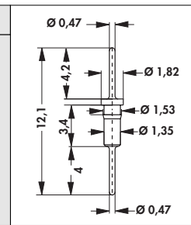
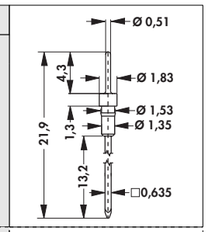
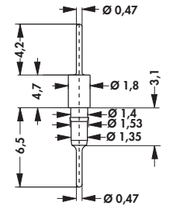
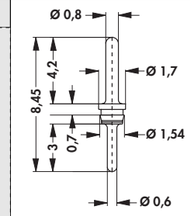
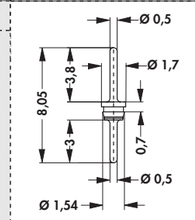
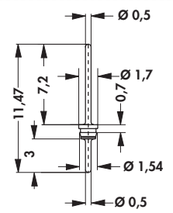
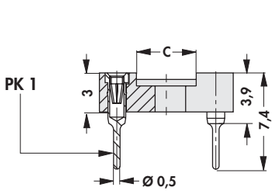
PK 4 ... ... Z		SK 02 ... ... G ... Z		SK 03 ... ... G ... Z	
art. no.		art. no.			
SK 04 ... ... Z		SK 08 ... ... G			

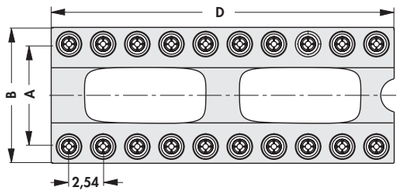
Male contacts

art. no.		art. no.		art. no.	
PK 3 ... ... G ... Z		SK 05 ... ... G ... Z		SK 11 ... ... G ... Z	
art. no.		art. no.		art. no.	
SK 14 X 2 ... ... G ... Z		SK 40 ... ... G		SK 41 ... ... G ... Z	
art. no.					
SK 42 ... ... G ... Z					

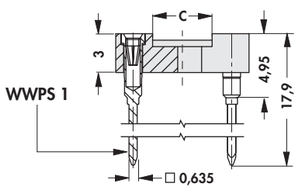
Sockets for DIL-IC → F 4 - 10
DIL-IC-sockets with extractor → F 10
Fem. head. 2.54 solder, put through → G 29
Technical data → F 31 - 34
High-prec. male headers 2.54 solder → G 21 - 24
High-precision female headers → G 3 - 7
Programmable headers → F 23
Peel-off terminal strips → G 25

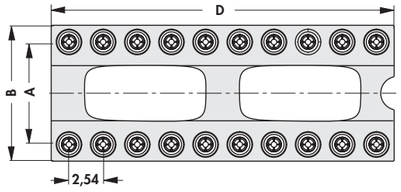
High-precision sockets for DIL-IC, open frame





art. no.	no. of contacts	dim. [mm] A	B	C	D	art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 6 M ...	6	7.62	10.10	4.10	7.60	**DIL 22 03 M Z**	22	7.62	10.10	4.10	27.90
DIL 8 M ...	8	7.62	10.10	4.10	10.10	**DIL 24 M ...**	24	15.24	17.70	11.70	30.60
DIL 10 M ...	10	7.62	10.10	4.10	12.70	**DIL 24 03 M ...**	24	7.62	10.10	4.10	30.60
DIL 14 M ...	14	7.62	10.10	4.10	17.70	**DIL 24 04 M G**	24	10.16	12.70	6.70	30.60
DIL 16 M ...	16	7.62	10.10	4.10	20.40	**DIL 28 M ...**	28	15.24	17.70	11.70	35.70
DIL 18 M ...	18	7.62	10.10	4.10	23.00	**DIL 28 03 M ...**	28	7.62	10.10	4.10	35.70
DIL 20 M ...	20	7.62	10.10	4.10	25.50	**DIL 32 M ...**	32	15.24	17.70	11.70	40.60
DIL 22 M ...	22	10.16	12.70	6.70	27.90	**DIL 36 M G**	36	15.24	17.70	11.70	45.60





art. no.	no. of contacts	dim. [mm] A	B	C	D	art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 6 N ...	6	7.62	10.10	4.10	7.60	**DIL 22 03 N ...**	22	7.62	10.10	4.10	27.90
DIL 8 N ...	8	7.62	10.10	4.10	10.10	**DIL 24 N ...**	24	15.24	17.70	11.70	30.60
DIL 10 N ...	10	7.62	10.10	4.10	12.70	**DIL 24 03 N Z**	24	7.62	10.10	4.10	30.60
DIL 14 N ...	14	7.62	10.10	4.10	17.70	**DIL 24 04 N Z**	24	10.16	12.70	6.70	30.60
DIL 16 N ...	16	7.62	10.10	4.10	20.40	**DIL 28 N G**	28	15.24	17.70	11.70	35.70
DIL 18 N Z	18	7.62	10.10	4.10	23.00	**DIL 28 03 N Z**	28	7.62	10.10	4.10	35.70
DIL 20 N Z	20	7.62	10.10	4.10	25.50	**DIL 32 N Z**	32	15.24	17.70	11.70	40.60
DIL 22 N ...	22	10.16	12.70	6.70	27.90	**DIL 36 N ...**	36	15.24	17.70	11.70	45.60

please indicate: **... surface**
G = gold-plated
Z = tin-plated

contact spring: gold-plated

Fem. head. 2.54 solder, put through → **G 29**
Programmable headers → **F 23**
Sockets for LED → **F 11 - 12**
Technical data → **F 31 - 34**

Single precision contacts → **F 2 - 3**
High-prec. male headers 2.54 solder → **G 21 - 24**
Peel-off terminal strips → **G 25**

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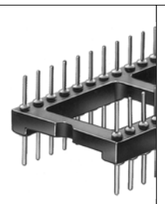
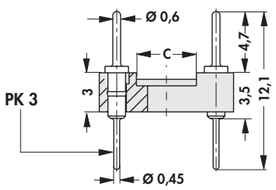
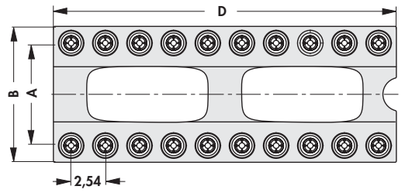
2.54

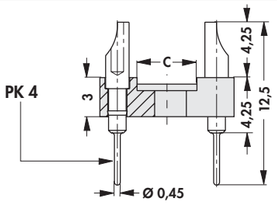
High-precision sockets for DIL-IC, open frame

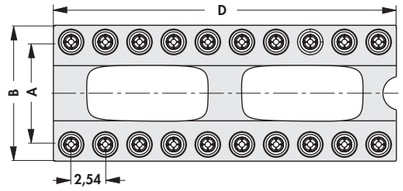






art. no.	no. of contacts	dim. [mm] A	B	C	D	art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 6 O ...	6	7.62	10.10	4.10	7.60	**DIL 22 03 O Z**	22	7.62	10.10	4.10	27.90
DIL 8 O ...	8	7.62	10.10	4.10	10.10	**DIL 24 O G**	24	15.24	17.70	11.70	30.60
DIL 10 O Z	10	7.62	10.10	4.10	12.70	**DIL 24 03 O ...**	24	7.62	10.10	4.10	30.60
DIL 14 O ...	14	7.62	10.10	4.10	17.70	**DIL 24 04 O Z**	24	10.16	12.70	6.70	30.60
DIL 16 O ...	16	7.62	10.10	4.10	20.40	**DIL 28 O ...**	28	15.24	17.70	11.70	35.70
DIL 18 O ...	18	7.62	10.10	4.10	23.00	**DIL 28 03 O Z**	28	7.62	10.10	4.10	35.70
DIL 20 O ...	20	7.62	10.10	4.10	25.50	**DIL 32 O ...**	32	15.24	17.70	11.70	40.60
DIL 22 O ...	22	10.16	12.70	6.70	27.90	**DIL 36 O Z**	36	15.24	17.70	11.70	45.60



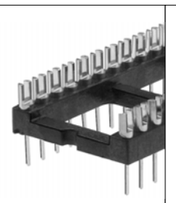


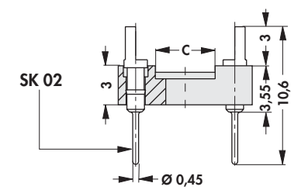
art. no.	no. of contacts	dim. [mm] A	B	C	D	art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 6 P Z	6	7.62	10.10	4.10	7.60	**DIL 22 P G**	22	10.16	12.70	6.70	27.90
DIL 8 P ...	8	7.62	10.10	4.10	10.10	**DIL 22 03 P ...**	22	7.62	10.10	4.10	27.90
DIL 10 P ...	10	7.62	10.10	4.10	12.70	**DIL 24 P G**	24	15.24	17.70	11.70	30.60
DIL 14 P ...	14	7.62	10.10	4.10	17.70	**DIL 24 03 P G**	24	7.62	10.10	4.10	30.60
DIL 16 P ...	16	7.62	10.10	4.10	20.40	**DIL 24 04 P ...**	24	10.16	12.70	6.70	30.60
DIL 18 P ...	18	7.62	10.10	4.10	23.00	**DIL 32 P Z**	32	15.24	17.70	11.70	40.60
DIL 20 P ...	20	7.62	10.10	4.10	25.50	**DIL 36 P ...**	36	15.24	17.70	11.70	45.60

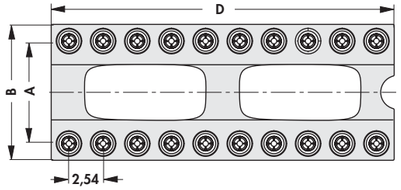
please indicate: **... surface**
G = gold-plated
Z = tin-plated

Mounting tool for DIL/PLCC → **F 14**
Peel-off terminal strips → **G 25**
Technical data → **F 31 - 34**
High-prec. male headers 2.54 solder → **G 21 - 24**
Sockets for LED → **F 11 - 12**
Single precision contacts → **F 2 - 3**
Fem. head. 2.54 solder, put through → **G 29**

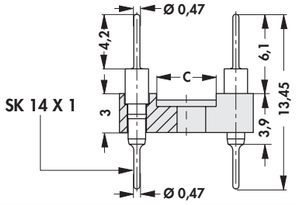
High-precision sockets for DIL-IC, open frame

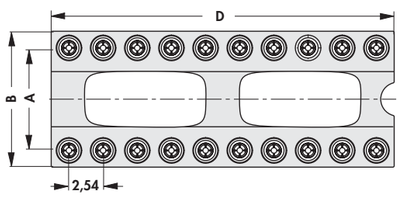






art. no.	no. of contacts	dim. [mm] A	B	C	D	art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 6 Q Z	6	7.62	10.10	4.10	7.60	**DIL 20 Q Z**	20	7.62	10.10	4.10	25.50
DIL 8 Q ...	8	7.62	10.10	4.10	10.10	**DIL 24 03 Q G**	24	7.62	10.10	4.10	30.60
DIL 10 Q Z	10	7.62	10.10	4.10	12.70	**DIL 28 Q ...**	28	15.24	17.70	11.70	35.70
DIL 14 Q Z	14	7.62	10.10	4.10	17.70	**DIL 28 03 Q Z**	28	7.62	10.10	4.10	35.70
DIL 16 Q ...	16	7.62	10.10	4.10	20.40	**DIL 36 Q ...**	36	15.24	17.70	11.70	45.60
DIL 18 Q ...	18	7.62	10.10	4.10	23.00						





art. no.	no. of contacts	dim. [mm] A	B	C	D	art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 6 U ...	6	7.62	10.10	4.10	7.60	**DIL 22 03 U Z**	22	7.62	10.10	4.10	27.90
DIL 8 U ...	8	7.62	10.10	4.10	10.10	**DIL 24 U ...**	24	15.24	17.70	11.70	30.60
DIL 10 U Z	10	7.62	10.10	4.10	12.70	**DIL 24 03 U ...**	24	7.62	10.10	4.10	30.60
DIL 14 U ...	14	7.62	10.10	4.10	17.70	**DIL 24 04 U Z**	24	10.16	12.70	6.70	30.60
DIL 16 U ...	16	7.62	10.10	4.10	20.40	**DIL 28 U ...**	28	15.24	17.70	11.70	35.70
DIL 18 U Z	18	7.62	10.10	4.10	23.00	**DIL 32 U G**	32	15.24	17.70	11.70	40.60
DIL 20 U Z	20	7.62	10.10	4.10	25.50	**DIL 36 U ...**	36	15.24	17.70	11.70	45.60
DIL 22 U ...	22	10.16	12.70	6.70	27.90						

please indicate: **... surface**
G = gold-plated
Z = tin-plated

Mounting tool for DIL/PLCC → **F 14**
Programmable headers → **F 23**
Technical data → **F 31 - 34**
Single precision contacts → **F 2 - 3**
High-prec. male headers 2.54 solder → **G 21 - 24**
Sockets for LED → **F 11 - 12**
Fem. head. 2.54 solder, put through → **G 29**
Peel-off terminal strips → **G 25**

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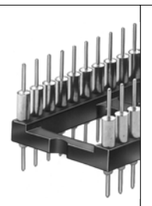
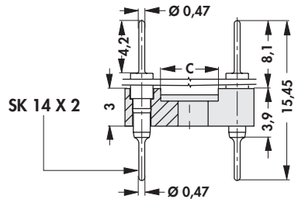
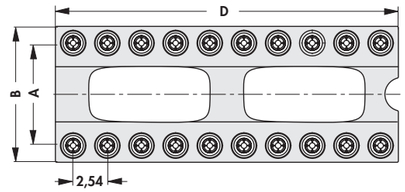
2.54

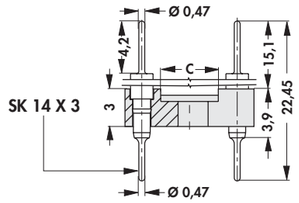
High-precision sockets for DIL-IC, open frame

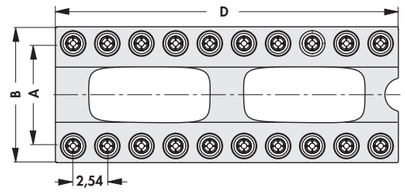






art. no.	no. of contacts	dim. [mm] A	B	C	D	art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 6 V ...	6	7.62	10.10	4.10	7.60	**DIL 22 V G**	22	10.16	12.70	6.70	27.90
DIL 8 V ...	8	7.62	10.10	4.10	10.10	**DIL 22 03 V Z**	22	7.62	10.10	4.10	27.90
DIL 10 V Z	10	7.62	10.10	4.10	12.70	**DIL 24 03 V ...**	24	7.62	10.10	4.10	30.60
DIL 14 V ...	14	7.62	10.10	4.10	17.70	**DIL 24 04 V ...**	24	10.16	12.70	6.70	30.60
DIL 16 V ...	16	7.62	10.10	4.10	20.40	**DIL 28 V ...**	28	15.24	17.70	11.70	35.70
DIL 18 V ...	18	7.62	10.10	4.10	23.00	**DIL 28 03 V Z**	28	7.62	10.10	4.10	35.70
DIL 20 V Z	20	7.62	10.10	4.10	25.50	**DIL 36 V ...**	36	15.24	17.70	11.70	45.60



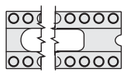


art. no.	no. of contacts	dim. [mm] A	B	C	D	art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 6 W Z	6	7.62	10.10	4.10	7.60	**DIL 22 W Z**	22	10.16	12.70	6.70	27.90
DIL 8 W ...	8	7.62	10.10	4.10	10.10	**DIL 22 03 W ...**	22	7.62	10.10	4.10	27.90
DIL 10 W ...	10	7.62	10.10	4.10	12.70	**DIL 24 03 W Z**	24	7.62	10.10	4.10	30.60
DIL 14 W ...	14	7.62	10.10	4.10	17.70	**DIL 24 04 W ...**	24	10.16	12.70	6.70	30.60
DIL 16 W G	16	7.62	10.10	4.10	20.40	**DIL 32 W ...**	32	15.24	17.70	11.70	40.60
DIL 18 W ...	18	7.62	10.10	4.10	23.00	**DIL 36 W ...**	36	15.24	17.70	11.70	45.60

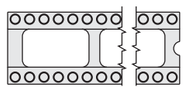
please indicate: **... surface**
G = gold-plated
Z = tin-plated

Socket layout of various numbers of contacts for DIL-IC, open frame

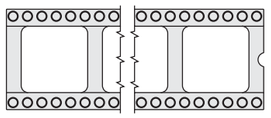
6-16 pol.



18-32 pol.

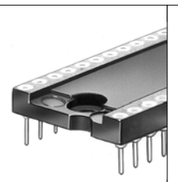


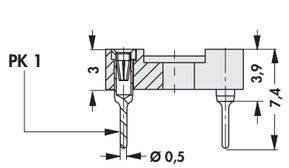
36-48 pol.

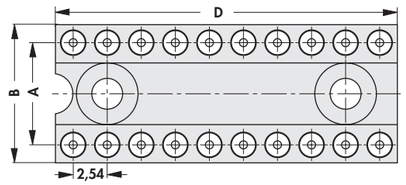


SMD sockets for PLCC → F 18
Programmable headers → F 23
Technical data → F 31 - 34
Sockets for LED → F 11 - 12
Single precision contacts → F 2 - 3
High-prec. male headers 2.54 solder → G 21 - 24
Mounting tool for DIL/PLCC → F 14
Peel-off terminal strips → G 25

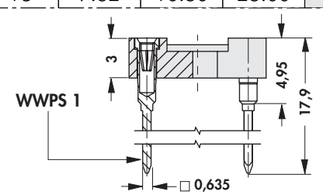
High-precision sockets for DIL-IC, closed frame

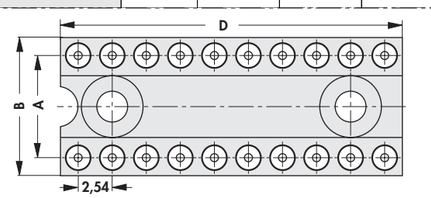




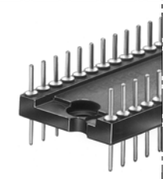


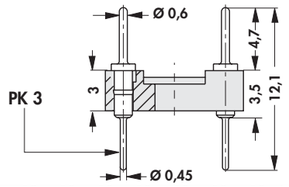
art. no.	no. of contacts	dim. [mm] A	B	D	art. no.	no. of contacts	dim. [mm] A	B	D
DIL 6 E ...	6	7.62	10.30	7.60	**DIL 20 E ...**	20	7.62	10.30	25.50
DIL 8 E ...	8	7.62	10.30	10.10	**DIL 28 E ...**	28	15.24	17.70	35.50
DIL 14 E ...	14	7.62	10.30	17.70	**DIL 32 E ...**	32	15.24	17.70	40.60
DIL 16 E ...	16	7.62	10.30	20.40	**DIL 40 E ...**	40	15.24	17.70	50.80
DIL 18 E ...	18	7.62	10.30	23.00					

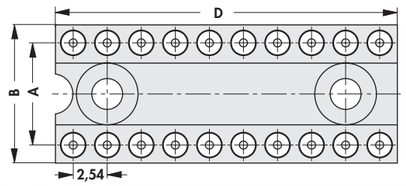




art. no.	no. of contacts	dim. [mm] A	B	D	art. no.	no. of contacts	dim. [mm] A	B	D
DIL 6 H ...	6	7.62	10.30	7.60	**DIL 22 H ...**	22	10.16	12.70	27.90
DIL 8 H Z	8	7.62	10.30	10.10	**DIL 28 H Z**	28	15.24	17.70	35.50
DIL 14 H Z	14	7.62	10.30	17.70	**DIL 32 H ...**	32	15.24	17.70	40.60
DIL 16 H Z	16	7.62	10.30	20.40	**DIL 36 H Z**	36	15.24	17.70	45.60
DIL 18 H Z	18	7.62	10.30	23.00	**DIL 40 H ...**	40	15.24	17.70	50.80
DIL 20 H ...	20	7.62	10.30	25.50	**DIL 48 H Z**	48	15.24	17.70	61.30







art. no.	no. of contacts	dim. [mm] A	B	D	art. no.	no. of contacts	dim. [mm] A	B	D
DIL 6 A G	6	7.62	10.30	7.60	**DIL 18 A ...**	18	7.62	10.30	23.00
DIL 8 A ...	8	7.62	10.30	10.10	**DIL 36 A Z**	36	15.24	17.70	45.60
DIL 14 A ...	14	7.62	10.30	17.70	**DIL 40 A Z**	40	15.24	17.70	50.80
DIL 16 A G	16	7.62	10.30	20.40	**DIL 48 A Z**	48	15.24	17.70	61.30

please indicate: **... surface**
G = gold-plated
Z = tin-plated

contact spring: gold-plated

SMD sockets for PLCC → **F 18**
Programmable headers → **F 23**
Technical data → **F 31 - 34**
High-prec. male headers 2.54 solder → **G 21 - 24**
Single precision contacts → **F 2 - 3**
Sockets for LED → **F 11 - 12**
Fem. head. 2.54 solder, put through → **G 29**
Peel-off terminal strips → **G 25**

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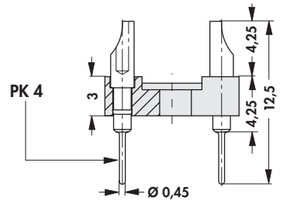
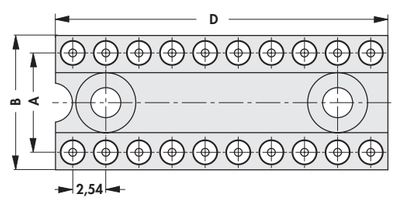
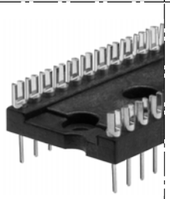
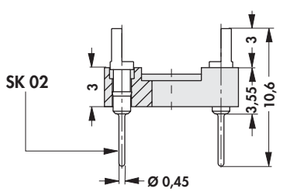
High-precision sockets for DIL-IC, closed frame

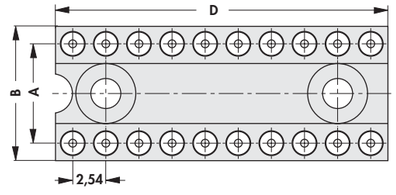




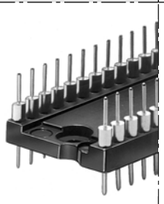
art. no.	no. of contacts	dim. [mm] A	B	D	art. no.	no. of contacts	dim. [mm] A	B	D
DIL 6 B ...	6	7.62	10.30	7.60	**DIL 28 B Z**	28	15.24	17.70	35.50
DIL 8 B G	8	7.62	10.30	10.10	**DIL 32 B Z**	32	15.24	17.70	40.60
DIL 14 B ...	14	7.62	10.30	17.70	**DIL 36 B ...**	36	15.24	17.70	45.60
DIL 16 B ...	16	7.62	10.30	20.40	**DIL 40 B G**	40	15.24	17.70	50.80
DIL 18 B ...	18	7.62	10.30	23.00	**DIL 48 B ...**	48	15.24	17.70	61.30
DIL 20 B ...	20	7.62	10.30	25.50					

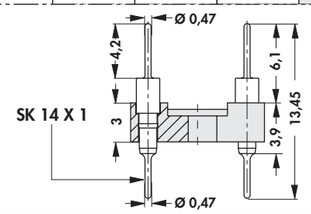


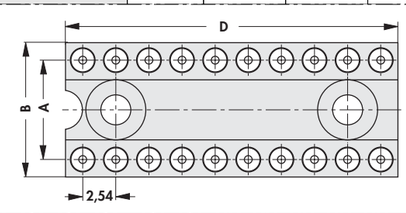




art. no.	no. of contacts	dim. [mm] A	B	D	art. no.	no. of contacts	dim. [mm] A	B	D
DIL 6 D ...	6	7.62	10.30	7.60	**DIL 20 D ...**	20	7.62	10.30	25.50
DIL 8 D ...	8	7.62	10.30	10.10	**DIL 32 D G**	32	15.24	17.70	40.60
DIL 14 D Z	14	7.62	10.30	17.70	**DIL 36 D ...**	36	15.24	17.70	45.60
DIL 16 D ...	16	7.62	10.30	20.40	**DIL 48 D ...**	48	15.24	17.70	61.30
DIL 18 D ...	18	7.62	10.30	23.00					





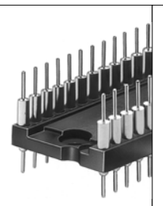


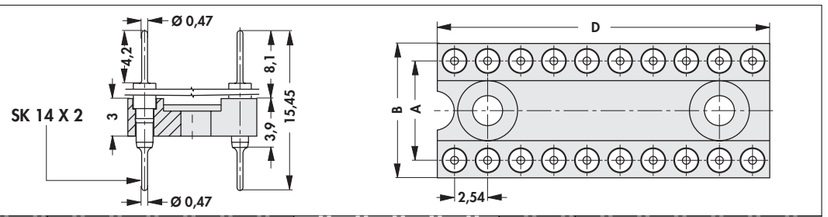
art. no.	no. of contacts	dim. [mm] A	B	D	art. no.	no. of contacts	dim. [mm] A	B	D
DIL 6 X ...	6	7.62	10.30	7.60	**DIL 28 X Z**	28	15.24	17.70	35.50
DIL 8 X G	8	7.62	10.30	10.10	**DIL 32 X ...**	32	15.24	17.70	40.60
DIL 14 X G	14	7.62	10.30	17.70	**DIL 36 X ...**	36	15.24	17.70	45.60
DIL 16 X ...	16	7.62	10.30	20.40	**DIL 40 X ...**	40	15.24	17.70	50.80
DIL 18 X ...	18	7.62	10.30	23.00	**DIL 48 X ...**	48	15.24	17.70	61.30
DIL 22 X ...	22	10.16	12.70	27.90					

please indicate: **... surface**
G = gold-plated
Z = tin-plated

SMD sockets for PLCC → **F 18**
Programmable headers → **F 23**
Technical data → **F 31 - 34**
Sockets for LED → **F 11 - 12**
Single precision contacts → **F 2 - 3**
High-prec. male headers 2.54 solder → **G 21 - 24**
Fem. head. 2.54 solder, put through → **G 29**
Mounting tool for DIL/PLCC → **F 14**

High-precision sockets for DIL-IC, closed frame

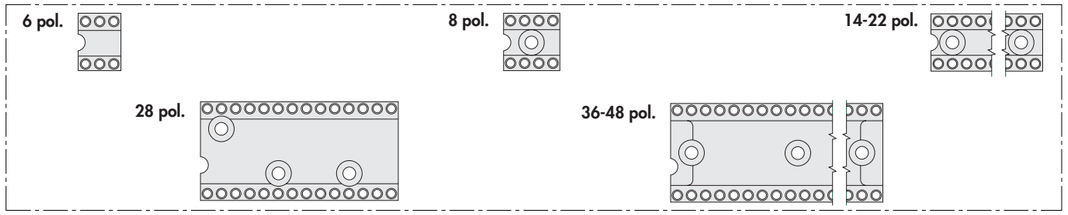




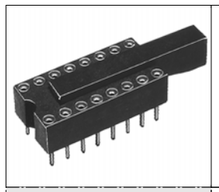
art. no.	no. of contacts	dim. [mm] A	B	D	art. no.	no. of contacts	dim. [mm] A	B	D
DIL 6 Y ...	6	7.62	10.30	7.60	**DIL 22 Y G**	22	10.16	12.70	27.90
DIL 8 Y ...	8	7.62	10.30	10.10	**DIL 28 Y ...**	28	15.24	17.70	35.50
DIL 14 Y Z	14	7.62	10.30	17.70	**DIL 36 Y ...**	36	15.24	17.70	45.60
DIL 16 Y ...	16	7.62	10.30	20.40	**DIL 40 Y ...**	40	15.24	17.70	50.80
DIL 18 Y ...	18	7.62	10.30	23.00	**DIL 48 Y ...**	48	15.24	17.70	61.30

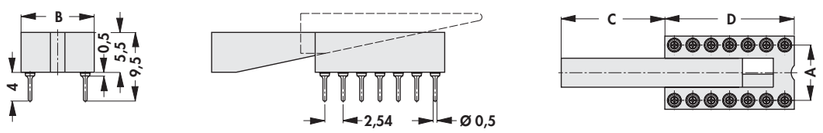
please indicate: **... surface**
G = gold-plated
Z = tin-plated

Socket layout of various numbers of contacts for DIL-IC, closed frame



DIL-IC-sockets with extractor





art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 14 PEK	14	7.62	10.10	12.00	17.00
DIL 16 PEK	16	7.62	10.10	12.00	20.30

contact shell surface: gold-plated
contact spring: gold-plated

SMD sockets for PLCC → **F 18**
Mounting tool for DIL/PLCC → **F 14**
Technical data → **F 31 - 34**
High-prec. male headers 2.54 solder → **G 21 - 24**
Single precision contacts → **F 2 - 3**
Sockets for LED → **F 11 - 12**
Fem. head. 2.54 solder, put through → **G 29**
Programmable headers → **F 23**

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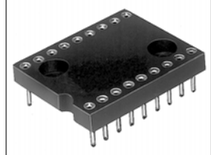
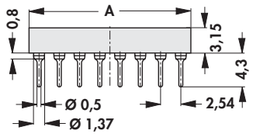
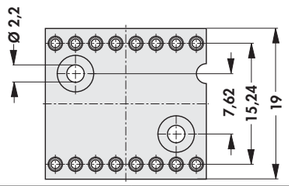
High-precision sockets for DIL-IC

LED display sockets of 0.6" pitch

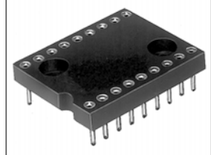


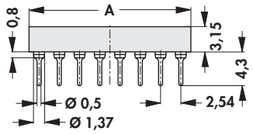


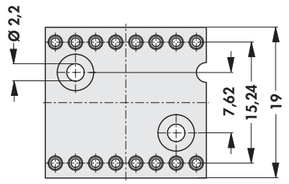


art. no.	no. of contacts	dim. [mm] A	art. no.	no. of contacts	dim. [mm] A
DIL 16 06 E Z	16	20.30	**DIL 18 06 E ...**	18	22.80

please indicate: **... surface**
G = gold-plated
Z = tin-plated





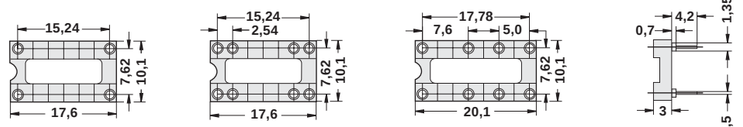


art. no.	no. of contacts	dim. [mm] A	art. no.	no. of contacts	dim. [mm] A
DIL 16 06 H Z	16	20.30	**DIL 18 06 H Z**	18	22.80

contact spring: gold-plated

High-precision sockets for DIL-IC

IC-sockets partially equipped, e.g. for oscillators and relays



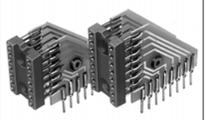
DIL 4 OR ... DIL 8 1 OR ... DIL 8 2 OR ...

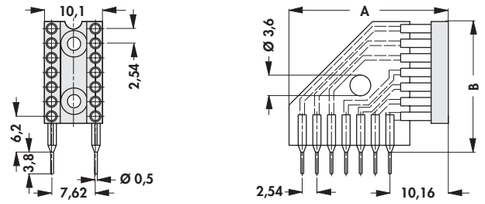
art. no.	no. of contacts	art. no.	no. of contacts
DIL 4 OR ...	4	**DIL 8 2 OR ...**	8
DIL 8 1 OR Z	8		

please indicate: **... surface**
G = gold-plated
Z = tin-plated

contact spring: gold-plated

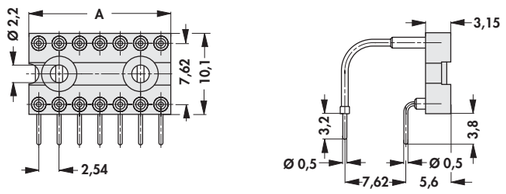
LED display sockets in vertical construction





art. no.	no. of contacts	dim. [mm] A	dim. [mm] B	art. no.	no. of contacts	dim. [mm] A	dim. [mm] B
DIL 14 W 90	14	27.70	22.70	**DIL 16 W 90**	16	30.30	25.30

contact shell surface: tin-plated; **contact spring:** gold-plated



art. no.	no. of contacts	dim. [mm] A	art. no.	no. of contacts	dim. [mm] A
DIL 8 G ...	8	10.10	**DIL 16 G ...**	16	20.30
DIL 10 G ...	10	12.70	**DIL 20 G ...**	20	25.40
DIL 14 G ...	14	17.70			

please indicate: **... surface**
G = gold-plated
Z = tin-plated

contact spring: gold-plated

Mounting tool for DIL/PLCC → **F 14**
Jump. links 2.00 & 2.54 solder → **G 20**
Sockets for DIL-IC → **F 4 - 10**
Single contacts metal strip → **G 26**
Jumpers → **G 77 - 78**
Male con./fem. con. 6.00 solder → **G 2**

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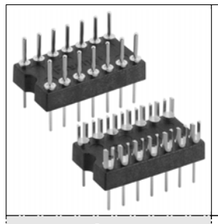
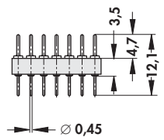
High-precision sockets for DIL-IC

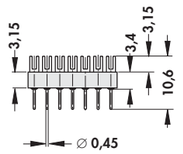
DIL adaptor plugs



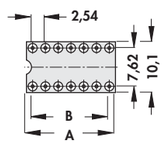
PK 3



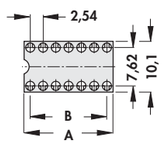
SK 02 (≙ PK 5)



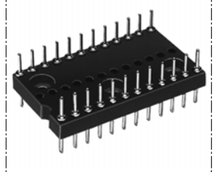
PK 3

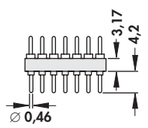


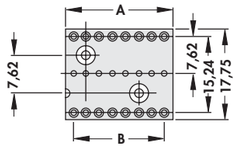
SK 02 (≙ PK 5)



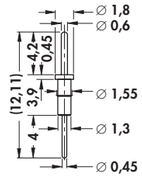
art. no.	no. of contacts	dim. [mm] A	dim. [mm] B	art. no.	no. of contacts	dim. [mm] A	dim. [mm] B
DILS 04 PK 5	4	5.00	2.54	**DILS 16 PK 3**	16	20.30	17.78
DILS 06 PK 3	6	7.60	5.08	**DILS 16 PK 5**	16	20.30	17.78
DILS 08 PK 3	8	10.10	7.62	**DILS 18 PK 5**	18	23.00	20.32
DILS 14 PK 3	14	17.70	15.24				



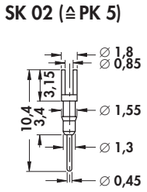




PK 3



SK 02 (≙ PK 5)

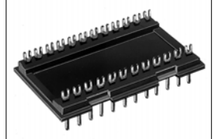


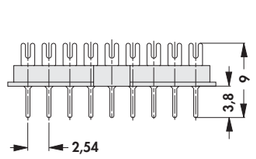
art. no.	no. of contacts	dim. [mm] A	dim. [mm] B	art. no.	no. of contacts	dim. [mm] A	dim. [mm] B
DILS 16 6 PK 3	16	20.30	17.78	**DILS 28 6 PK 3**	28	35.50	33.02
DILS 24 6 PK 5	24	30.50	27.94	**DILS 40 6 PK 3**	40	50.80	48.26

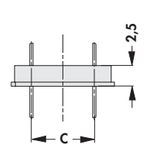
contact surface finish: gold-plated

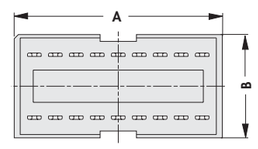
DIL platforms

suitable for **DIL-cases** DILS ... GA LO









art. no.	no. of contacts	dim. [mm] A	dim. [mm] B	dim. [mm] C	art. no.	no. of contacts	dim. [mm] A	dim. [mm] B	dim. [mm] C
DILS 08 GO	8	12.40	12.50	7.62	**DILS 24 GO**	24	32.80	20.10	15.24
DILS 14 GO	14	20.00	12.50	7.62	**DILS 28 GO**	28	37.80	20.10	15.24
DILS 16 GO	16	22.60	12.50	7.62	**DILS 40 GO**	40	53.10	20.10	15.24
DILS 18 GO	18	25.20	12.50	7.62					

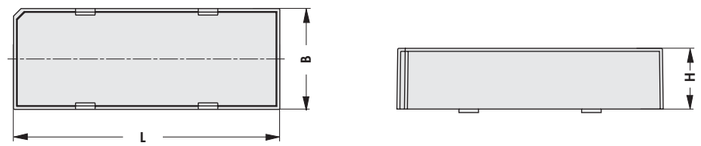
contact surface finish: gold-plated

High-prec. male headers 2.54 solder → **G 21 - 24**
Peel-off terminal strips → **G 25**
High-prec.male head.in SMD mount. → **G 35**
Technical data → **F 31 - 34**
Single precision contacts → **F 2 - 3**
Connector-sleeves → **F 25 - 27**
Programmable headers → **F 23**

High-precision sockets for DIL-IC

DIL cases - grid spacing 2.54 mm

suitable for **platforms DIL** DILS ... GO



art. no.	dim. [mm]			art. no.	dim. [mm]		
	B	H	L		B	H	L
DILS 08 GA LO	12.50	6.70	12.40	**DILS 14 GB LO**	12.50	11.70	20.00
DILS 14 GA LO	12.50	6.70	20.00	**DILS 16 GB LO**	12.50	11.70	22.60
DILS 16 GA LO	12.50	6.70	22.60	**DILS 18 GB LO**	12.50	11.70	25.20
DILS 18 GA LO	12.50	6.70	25.20	**DILS 24 GB LO**	20.10	11.70	32.80
DILS 24 GA LO	20.10	6.70	32.80	**DILS 28 GB LO**	20.10	11.70	37.80
DILS 40 GA LO	20.10	6.70	53.10	**DILS 40 GB LO**	20.10	11.70	53.10
DILS 08 GB LO	12.50	11.70	12.40				

contact spring: gold-plated

IC-mounting tools - Design DIL

art. no.	spacing of contact rows
MIC 03	7.62
MIC 06	15.24

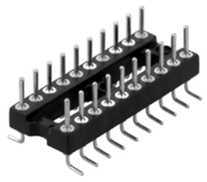
material: polyacetal, non-conductive; **flammability:** UL 94:HB

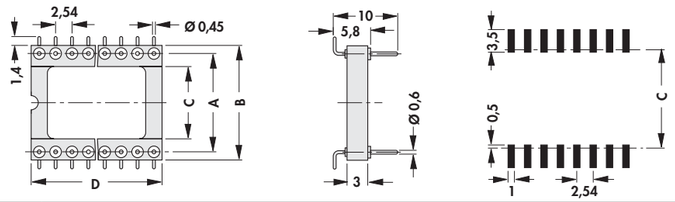
High-prec. male headers 2.54 solder → **G 21 - 24**
Peel-off terminal strips → **G 25**
High-prec.male head.in SMD mount. → **G 35**
Technical data → **F 31 - 34**
DIL platform adapters & cases → **F 13 - 14**
Teflon sockets/TO 5 & TO 18 → **F 21 - 22**
Fem. head. 2.54 solder, put through → **G 29**
Screw fastening → **I 28**

High-precision sockets for DIL-IC

SMD-plug for DIL

with PK 3-contacts

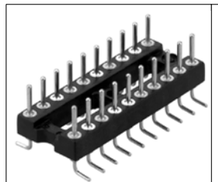


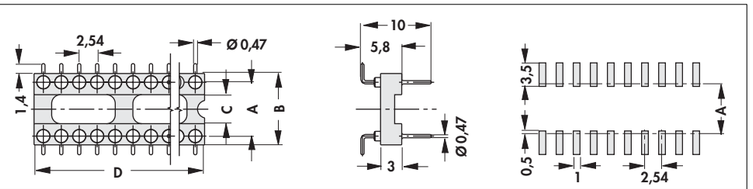


art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 08 SMD PK3 Z	8	7.62	10.10	3.50	10.00
DIL 16 SMD PK3 ...	16	7.62	10.10	3.50	20.10
DIL 20 SMD PK3 ...	20	7.62	10.10	3.50	25.20
DIL 24 SMD PK3 ...	24	15.24	17.60	11.70	30.30

please indicate: **... surface**
G = gold-plated
Z = tin-plated

with SK5-contacts





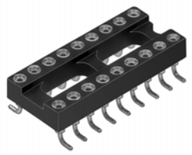
art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 08 SMD SK5 ...	8	7.62	10.10	3.50	10.00
DIL 16 SMD SK5 ...	16	7.62	10.10	3.50	20.10
DIL 20 SMD SK5 ...	20	7.62	10.10	3.50	25.20
DIL 24 SMD SK5 ...	24	15.24	17.60	11.70	30.30

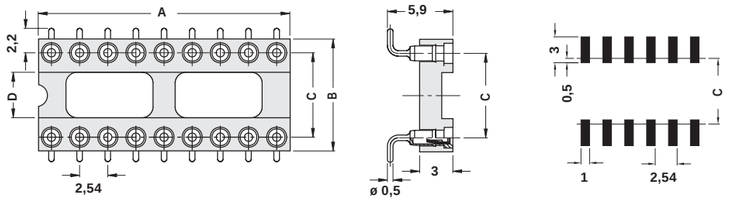
please indicate: **... surface**
G = gold-plated
Z = tin-plated

High-precision sockets for DIL-IC

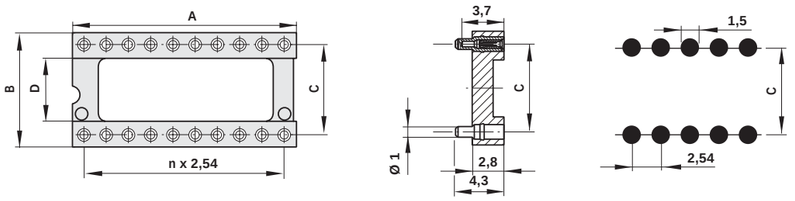
SMD-socket for DIL IC

Contacts, especially integrated into the insulating part, will adjust to the solder paste which possibly is not equally distributed.



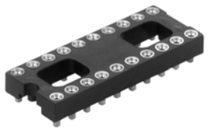


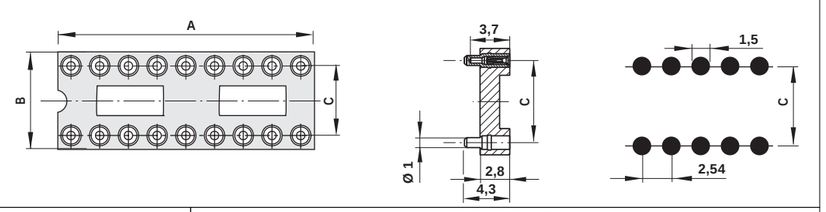
art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL 16 SMD M	16	20.10	10.10	7.62	3.50
DIL 20 SMD M	20	25.20	10.10	7.62	3.50
DIL 24 03 SMD M	24	30.30	10.10	7.62	3.50
DIL 28 SMD M	28	35.40	17.60	15.24	11.20



art. no.	no. of contacts	dim. [mm] A	B	C	D
DIL SMD 08 Z	8	10.08	10.08	7.62	4.80
DIL SMD 10 Z	10	12.62	10.08	7.62	4.80
DIL SMD 16 Z	16	20.24	10.08	7.62	4.80
DIL SMD 22 03 Z	22	27.86	10.08	7.62	4.80
DIL SMD 22 04 Z	22	27.86	12.62	10.16	6.50
DIL SMD 28 06 Z	28	35.48	17.70	15.24	10.60
DIL SMD 32 Z	32	40.56	17.70	15.24	10.60
DIL SMD 40 Z	40	50.72	17.70	15.24	10.60

with centre bar for vacuum-mounting





art. no.	no. of contacts	dim. [mm] A	B	C
DIL SMD M 14 Z	14	17.70	10.08	7.62
DIL SMD M 28 06 Z	28	35.48	17.70	15.24
DIL SMD M 32 Z	32	40.56	17.70	15.24

contact shell surface: tin-plated; **contact spring:** gold-plated **(DIL ... SMD M; DIL SMD ...; DIL SMD M ...)**

Sockets für PLCC → **F 17**
Sockets for DIL-IC → **F 4 - 10**
Programmable headers → **F 23**
Technical data → **F 31 - 34**
Jumpers → **G 77 - 78**
Mounting tool for DIL/PLCC → **F 14**
High-prec. male headers 2.54 solder → **G 21 - 24**
Peel-off terminal strips → **G 25**

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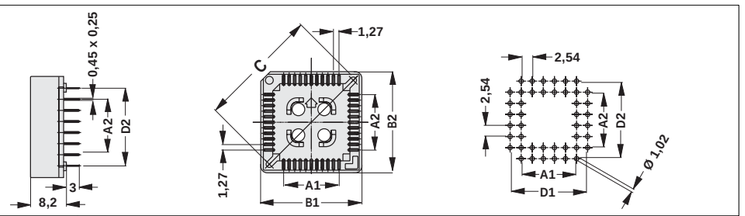
Sockets for IC-PLCC



art. no.	no. of contacts	VPE	dim. [mm] A1	A2	B1	B2	C	D1	D2
PLCC 20	20	39	5.08	5.08	15.55	15.55	16.70	10.16	10.16
PLCC 28	28	33	7.62	7.62	18.10	18.10	20.30	12.70	12.70
PLCC 32	32	29	7.62	10.16	18.10	20.70	22.20	12.70	15.24
PLCC 44	44	25	12.70	12.70	23.20	23.20	27.50	17.78	17.78
PLCC 52	52	23	15.24	15.24	25.70	25.70	31.00	20.32	20.32
PLCC 68	68	19	20.32	20.32	30.80	30.80	37.30	25.40	25.40
PLCC 84	84	16	25.40	25.40	36.00	36.00	44.50	30.48	30.48

contact surface finish: tin-plated; **VPE** = packing unit (pieces/tube)

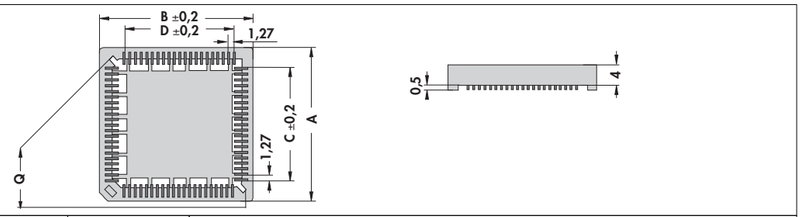
Data sheet for pin configuration of PLCC sockets available on request.
These sockets conform to EIA/JEDEC "A" package requirements for leaded plastic chip carriers.
Drain holes for easier inside cleaning.
Test probe holes are moulded next to each contact, providing easy access.
Insulating material as per UL 94 V-0.

colour: black

Mounting tool for DIL/PLCC → **F 14**
SMD sockets for PLCC → **F 18**
Connector-sleeves → **F 25 - 27**
Technical data → **F 31 - 34**
Teflon sockets/TO 5 & TO 18 → **F 21 - 22**
Fem. head. 2.54 solder, put through → **G 29**
PGA sockets → **F 21**

SMD sockets for PLCC - low profile housing

These sockets conform to EIA/JEDEC "A" package requirements for leaded plastic chip carriers.



art. no.	no. of contacts	VPE	dim. [mm] A	B	C	D	Q
PLCC 20 SMD	20	39	15.58	15.58	5.08	5.08	16.00
PLCC 28 SMD	28	32	18.12	18.12	7.62	7.62	20.60
PLCC 32 SMD	32	29	18.12	20.66	7.62	10.16	22.50
PLCC 44 SMD	44	26	23.40	23.40	12.70	12.70	27.50
PLCC 52 SMD	52	23	25.74	25.74	15.24	15.24	31.10
PLCC 68 SMD	68	19	30.82	30.82	20.32	20.32	38.80
PLCC 84 SMD	84	15	35.90	35.90	25.40	25.40	44.80

VPE = packing unit (pieces/tube)*dimensions ± 0.2 mm
Tin-plated phosphorbronze socket contacts.

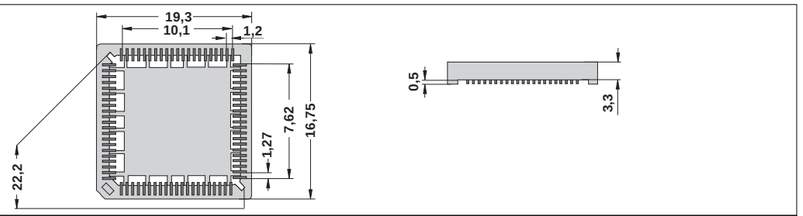
colour: black

packing: bar magazine

- Dual polarisation indicators guarantee the correct alignment of the device.
- Drain holes for easier inside cleaning.
- Test probe holes are moulded next to each contact, providing easy access.
- Efficient heat dissipation.

Insulating material (PBT) UL 94 V-0 rated.

SMD-sockets for PLCC - low profile housing



art. no.	no. of contacts
PLCC 32 LP SMD ...	32

please indicate: **... packing (option)**
SM = tube magazine
TR = tape and reel (500 pcs/reel)

Mounting tool for DIL/PLCC → **F 14**
Sockets für PLCC → **F 17**
PGA sockets → **F 21**
Technical data → **F 37 - 40**
Fem. head. 2.54 solder, put through → **G 29**
Connector-sleeves → **F 25 - 27**
Teflon sockets/TO 5 & TO 18 → **F 21 - 22**

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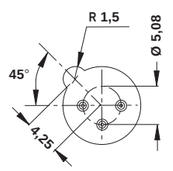
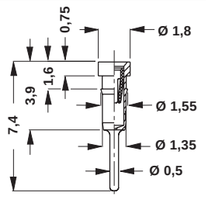
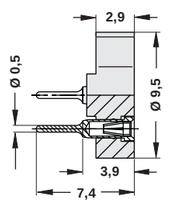
Sockets for TO ... cases

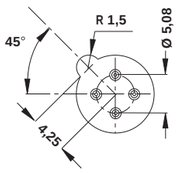
Sockets for TO 5

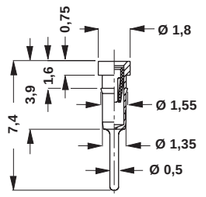


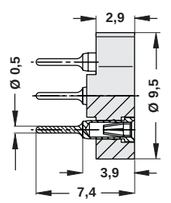




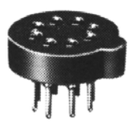
art. no.	no. of contacts
PF 53 ...	3

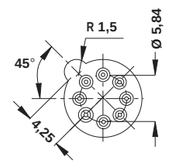


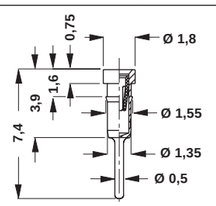


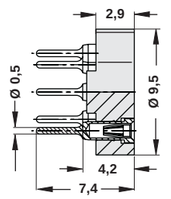


art. no.	no. of contacts
PF 54 ...	4

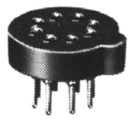


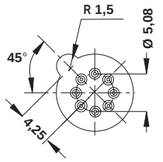


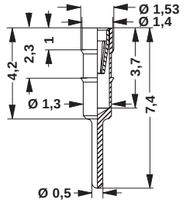


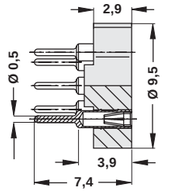


art. no.	no. of contacts
PF 58 23 ...	8









art. no.	no. of contacts
PF 58 2 ...	8

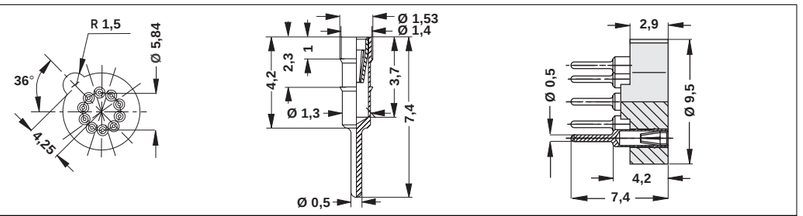
please indicate: **... surface**
G = gold-plated
Z = tin-plated

contact spring: gold-plated

Teflon sockets/TO 5 & TO 18 → **F 21 - 22**
Connector-sleeves → **F 25 - 27**
DIL platform adapters & cases → **F 13 - 14**
Single contacts metal strip → **G 26**
Peel-off terminal strips → **G 25**
Technical data → **F 31 - 34**
Female headers 2.54 press-fit → **G 53**

Sockets for TO ... cases

Sockets for TO 5

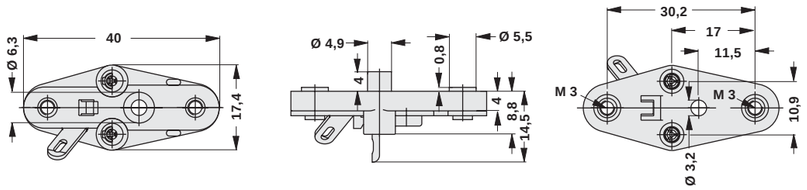


art. no.	no. of contacts
PF 510 ...	10

please indicate: **... surface**
G = gold-plated
Z = tin-plated

contact spring: gold-plated

Sockets for power transistors TO 3



art. no.	no. of contacts
TF 3 2	3

insulator: PCT, glassfibre filled
contact: beryllium copper; 4 ... 6 µm Sn

Technical data:
current rating: 15 A max.
capacitance: 1 pF
contact resistance: <10 mΩ
insulation resistance: $>10^{10}$ Ω/cm
temperature range: -65 °C ... +290 °C
test voltage: 1650 V

Single contacts metal strip → **G 26**
Jumper links → **F 24**
Female headers 2.54 press-fit → **G 53**
Teflon sockets/TO 5 & TO 18 → **F 21 - 22**
Peel-off terminal strips → **G 25**
DIL platform adapters & cases → **F 13 - 14**
Connector-sleeves → **F 25 - 27**

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Sockets for TO ... cases

Transistor sockets - teflon sockets for TO 5

	
art. no.	no. of contacts
TF 53	3
	
art. no.	no. of contacts
TF 54	4
	
art. no.	no. of contacts
TF 56	6
	
art. no.	no. of contacts
TF 58	8

contact shell and contact spring: gold-plated

Programmable headers → **F 23**
Sockets for TO 5 and TO 3 → **F 19 - 20**
Sockets für PLCC → **F 17**
Single contacts metal strip → **G 26**
Jumper links → **F 24**
High-prec.male head.in SMD mount. → **G 35**

Sockets for TO ... cases

Transistor sockets - teflon sockets for TO 5

	
art. no.	no. of contacts
TF 510	10
	
art. no.	no. of contacts
TF 512	12

Transistor sockets - teflon sockets for TO 18

	
art. no.	no. of contacts
TF 183	3
	
art. no.	no. of contacts
TF 184	4

contact shell and contact spring: gold-plated

Sockets for TO 5 and TO 3 → **F 19 - 20**
Programmable headers → **F 23**
Sockets für PLCC → **F 17**
Single contacts metal strip → **G 26**
High-prec.male head.in SMD mount. → **G 35**
Jumper links → **F 24**

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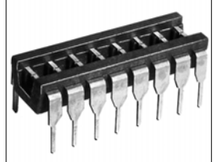
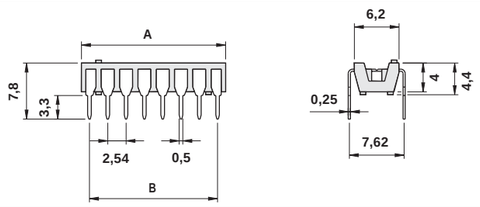
2.54

Programmable headers

Version for soldering technique



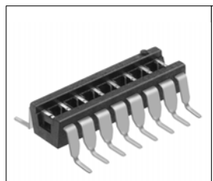


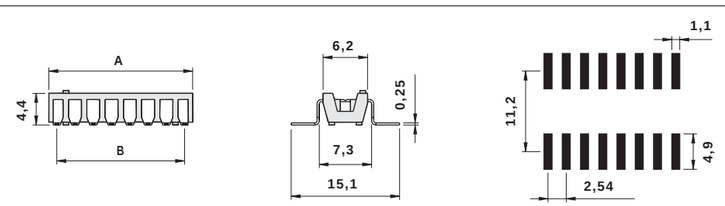
art. no.	no. of contacts	dim. [mm]	
		A	B
CAB 3 02 03 Z	2	2.22	-
CAB 3 04 03 Z	4	4.76	2.54
CAB 3 06 03 Z	6	7.30	5.08
CAB 3 08 03 Z	8	9.84	7.62
CAB 3 10 03 Z	10	12.38	10.16
CAB 3 12 03 Z	12	14.92	12.70
CAB 3 14 03 Z	14	17.46	15.24
CAB 3 16 03 Z	16	20.00	17.78

contacts: brass

The contacts have a preformed dividing groove and can easily be separated with a screwdriver blade.

Version for SMD technology





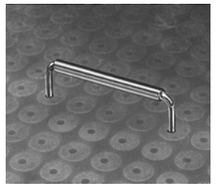
art. no.	no. of contacts	dim. [mm]	
		A	B
CAB 3 SMD 04 Z	4	4.76	2.54
CAB 3 SMD 08 Z	8	9.84	7.62
CAB 3 SMD 10 Z	10	12.38	10.16
CAB 3 SMD 12 Z	12	14.92	12.70
CAB 3 SMD 14 Z	14	17.46	15.24
CAB 3 SMD 16 Z	16	20.00	17.78

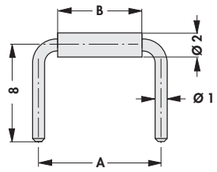
contacts: brass

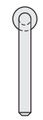
The contacts have a preformed dividing groove and can easily be separated with a screwdriver blade.

DIL platform adapters & cases → F 13 - 14
Jumper links → F 24
Sockets for DIL-IC → F 4 - 10
Technical data → F 31 - 34
DIL-IC-sockets with extractor → F 10
SMD socket for DIL-IC → F 16 - 16
Mounting tool for DIL/PLCC → F 14

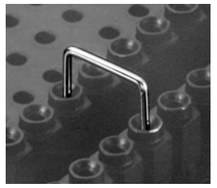
Jumper links

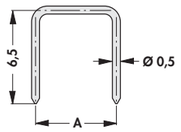






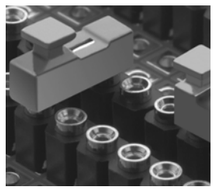
art. no.	dim. [mm]	
	A	B
LB 02 G	5.08	2.00
LB 03 G	7.62	4.50
LB 04 G	10.16	7.00
LB 06 G	15.24	12.00

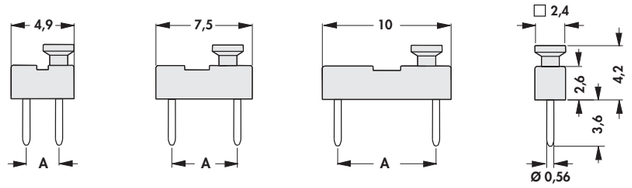




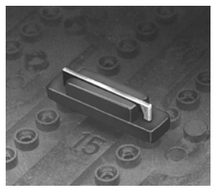
art. no.	dim. [mm]
	A
CB 1 ...	2.54
CB 3 ...	5.08
CB 6 ...	7.62

please indicate: **... surface**
G = gold-plated
Z = tin-plated





art. no.	dim. [mm]
	A
LEB 01 G	2.54
LEB 02 G	5.08
LEB 03 G	7.62



art. no.
PSB 03 G

Mounting tool for DIL/PLCC → F 14
Single precision contacts F 2
- 3
High-prec. male headers 2.54 solder G 21
- 24

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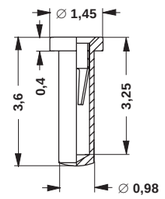
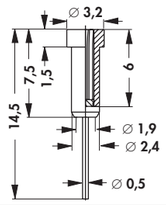
Connector-sleeves

for 0.4 mm with BeCu spring 3 µm Ni, 1 µm Au



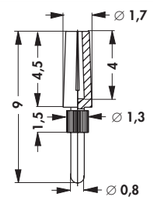
art. no.
SB 1

for 0.4 mm with bronze spring, teflon insulated



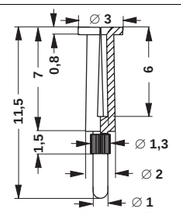
art. no.
SB 2

for 0.8 mm, slotted



art. no.
SB 3

for 1 mm, slotted

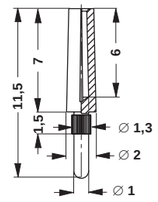


art. no.
SB 4

material: brass 2 µm Ni, 0.25 µm Au (unless otherwise stated)

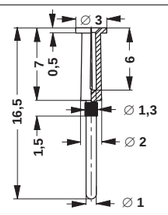
High-prec. male headers 2.54 solder → G 21 - 24
Teflon sockets/TO 5 & TO 18 → F 21 - 22
High-precision female headers → G 3 - 5
Jumper links → F 24
Sockets für PLCC → F 17
Single precision contacts → F 2 - 3

for 1 mm, slotted



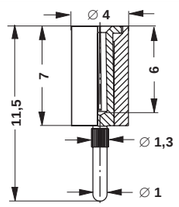
art. no.
SB 5

for 1 mm, slotted



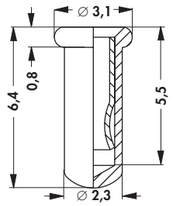
art. no.
SB 6

for 1 mm, slotted, plastic insulated



art. no.
SB 9

for 1 mm, with BeCu spring 3 µm Ni, 1 µm Au



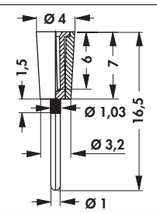
art. no.
SB 12

material: brass 2 µm Ni, 0.25 µm Au (unless otherwise stated)

High-precision female headers → G 3 - 5
High-prec. male headers 2.54 solder → G 21 - 24
Teflon sockets/TO 5 & TO 18 → F 21 - 22
Jumper links → F 24
Sockets für PLCC → F 17
Single precision contacts → F 2 - 3

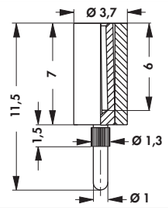
Connector-sleeves

for 1 mm, slotted, plastic insulated



art. no.
SB 16

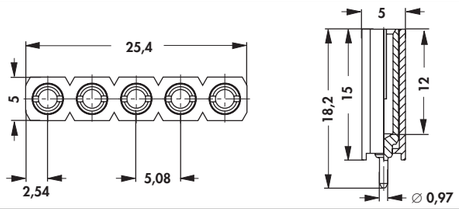
for 2 mm, slotted, plastic insulated



art. no.
SB 13 ...

please indicate:	... case colour B = blue R = red S = black

for 2 mm, slotted, plastic insulated, separable



art. no.
SB 15

material: brass 2 µm Ni, 0.25 µm Au (unless otherwise stated)

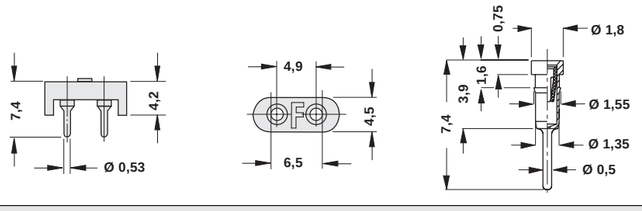
Teflon sockets/TO 5 & TO 18	→ F 21 - 22	Single precision contacts	→ F 2 - 3
Sockets für PLCC	→ F 17	High-prec. male headers 2.54 solder	→ G 21 - 24
High-precision female headers	→ G 3 - 5	Sockets für PLCC	→ F 17
Jumper links	→ F 24		

Sockets for crystal oscillators

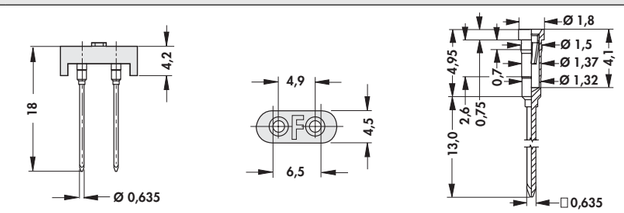
art. no.
QS 25 GS

contact surface finish: silver-plated

Precision sockets for crystal oscillators in case HC 18



art. no.	
PQ 18 ...	
please indicate:	... surface G = gold-plated Z = tin-plated



art. no.	
PQ 18 W ...	
please indicate:	... surface G = gold-plated Z = tin-plated

contact spring: gold-plated

Teflon sockets/TO 5 & TO 18 → F 21 - 22
Programmable headers → F 23
Sockets für PLCC → F 17
Jumper links → F 24
High-prec. male headers 2.54 solder → G 21 - 24
Single precision contacts → F 2 - 3

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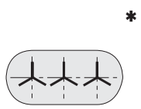
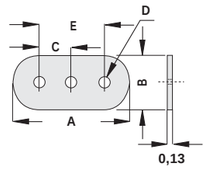
Sockets for crystal oscillators

Insulators for crystal mounts





art. no.	case design	dim. [mm]				
		A	B	C	D	E (max.)
ISQ 01	HC-80/U	8.30	3.70	-	0.71	3.80
ISQ 02	HC-80/U	8.30	3.70	-	*	3.80
ISQ 03	HC-80/U	8.30	3.70	1.90	0.71	3.80
ISQ 04	HC-18/U, HC-43/U, HC-49/U	11.80	5.60	-	0.71	4.90
ISQ 05	HC-18/U, HC-43/U, HC-49/U	11.80	5.60	-	*	4.90
ISQ 06	HC-18/U, HC-43/U, HC-49/U	11.80	5.60	2.40	0.71	4.90
ISQ 07	HC-18/U, HC-43/U, HC-49/U	11.80	5.60	2.40	*	4.90
ISQ 08	HC-25/U, HC-42/U, HC-50/U	11.80	5.60	-	1.30	4.90

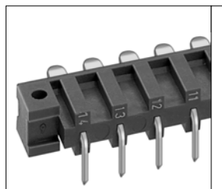
* = self retaining

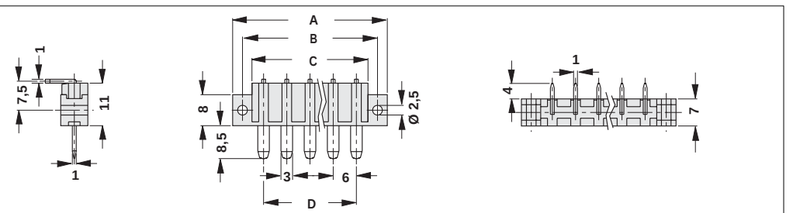
Technical data:
foil: MYLAR
thickness: 0.127 mm
heat resistance: 250 °C
dielectric strength: 9 KV

High-prec. male headers 2.54 solder → **G 21 - 24**
Teflon sockets/TO 5 & TO 18 → **F 21 - 22**
Sockets für PLCC → **F 17**
Jumper links → **F 24**
Programmable headers → **F 23**
Sockets for TO 5 and TO 3 → **F 19 - 20**
Sockets for DIL-IC → **F 4 - 10**

Male connector

one row, angled



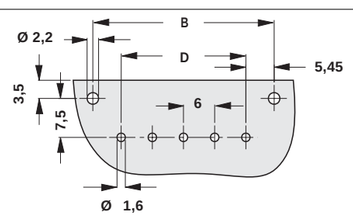


art. no.	no. of contacts	dim. [mm]			
		A	B	C	D
MELA 05	5	40.00	34.90	30.00	24.00
MELA 07	7	52.00	46.90	42.00	36.00

surface: silver-plated

As per DIN 41622.

PCB perforation



A
B
C
D
E
F
G
H
I
K
L
M
N

Male headers 2.54 solder → G 8
Female headers 2.54 solder → G 27
Single contacts metal strip → G 26
Technical data → G 73 - 78
Female headers 2.00 solder → G 60
Female headers 1.27 solder → G 70
D-Sub cut-out cover → I 27

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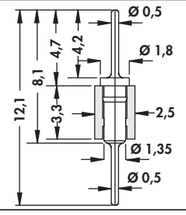
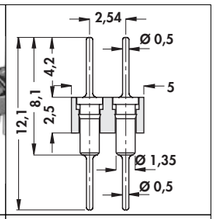
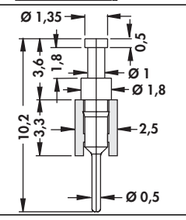
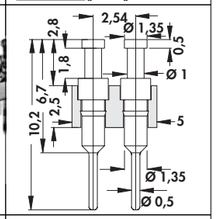
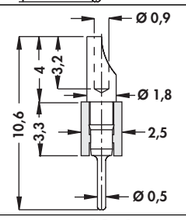
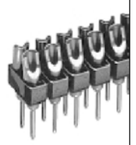
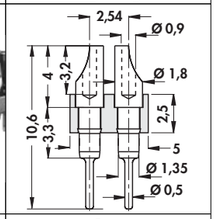
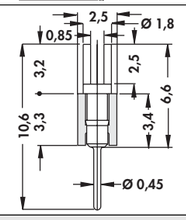
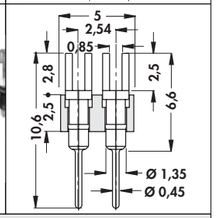
260°C

2.54

High-precision male headers soldering technique

Solder and plug pins, Ø 0.5 mm

art. no.			art. no.		
MK 05 ...			MK 205 ...		
art. no.			art. no.		
MK 03 ...			MK 203 ...		
art. no.			art. no.		
MK 04 ...			MK 204 ...		
art. no.			art. no.		
MK 02 ...			MK 202 ...		

please indicate:

... no. of contacts
one row 1-50
two rows 2-100

... surface
G = gold-plated
Z = tin-plated

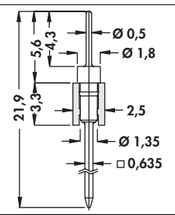
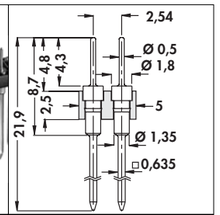
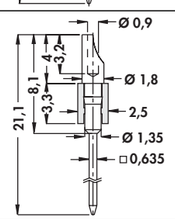
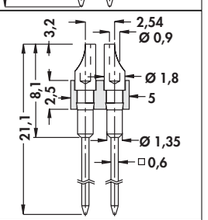
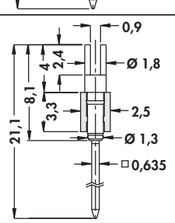
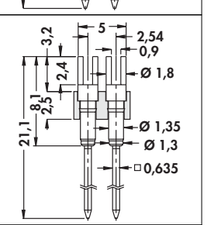
Also available as single contact, SK ...

version:
MK 05 / MK 205: contact pin on both sides
MK 03 / MK 203: with solder button
MK 04 / MK 204: with diagonal solder bucket
MK 02 / MK 202: with solder fork

High-prec. fem. headers 1.27 solder → G 72
Special male & female headers → G 19
Technical data → G 75 - 80
High-prec. male headers 2.54 solder → G 21 - 24
High-prec. fem. headers 2.54 sold. → G 31 - 34
Male headers 2.54 solder → G 8
Male headers 2.54 SMD → G 37 - 42
Single precision contacts → F 2 - 3

High-precision male headers soldering technique

Wire wrap pin, □ 0,635 mm

art. no.			art. no.		
MK 11 ...			MK 211 ...		
art. no.			art. no.		
MK 10 ...			MK 210 ...		
art. no.			art. no.		
MK 08 ...			MK 208 ...		

please indicate:
... no. of contacts
one row 1-50
two rows 2-100

... surface
G = gold-plated
Z = tin-plated

version:
MK 11 / MK 211: solder and plug pin, Ø 0.5 mm
MK 10 / MK 210: with diagonal solder bucket
MK 08 / MK 208: with solder fork

Single precision contacts → F 2 - 3
High-prec. fem. headers 1.27 solder → G 72
Technical data → G 75 - 80
High-prec. fem. headers 2.54 sold. → G 31 - 34
Special male & female headers → G 19
High-prec. male headers 2.54 solder → G 21 - 24
Male headers 2.54 solder → G 8
Male headers 2.54 SMD → G 37 - 42

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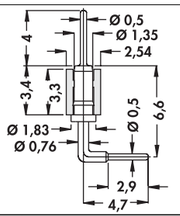
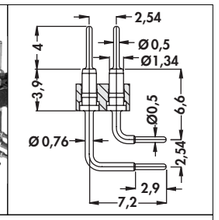
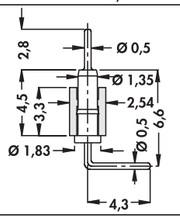
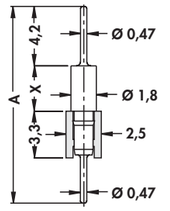
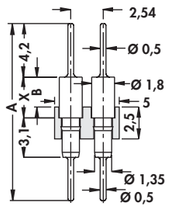
260°C

2.54

High-precision male headers soldering technique

Solder and plug pins, Ø 0,5 mm

art. no.			art. no.		
MK 51 ...			MK 251 ...		
art. no.					
MK 15 ...					
art. no.			art. no.		

art. no.	A	X	art. no.	A	B	X
MK 14 X 1 ...	13.4	2.7	MK 214 X 1 ...	13.4	1.9	2.7
MK 14 X 2 ...	15.4	4.7	MK 214 X 2 ...	15.4	3.9	4.7
MK 14 X 3 ...	22.2	11.7	MK 214 X 3 ...	22.2	10.9	11.7

please indicate:

... no. of contacts
one row 1-50
two rows 2-100

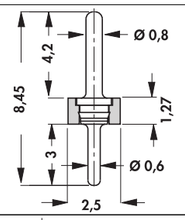
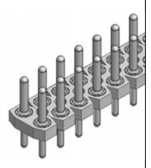
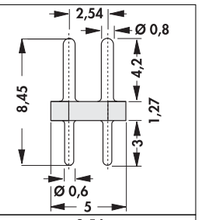
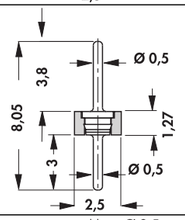
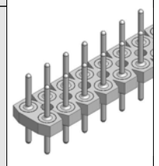
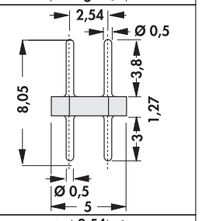
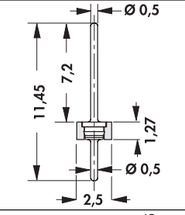
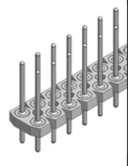
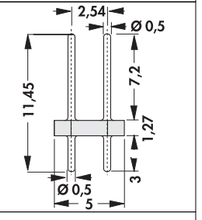
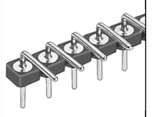
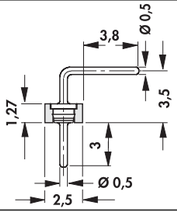
... surface
G = gold-plated
Z = tin-plated

version:
MK 51 ... / MK 251 ... / MK 15 ...: 90° PCB connection
MK 14 X ... / MK 214 X ...: parallel PCB connection

Single precision contacts → F 2 - 3
Male headers 2.54 solder → G 8
Special male & female headers → G 19
Male headers 2.54 SMD → G 37 - 42
Technical data → G 75 - 80
High-prec. fem. headers 1.27 solder → G 72
High-prec. fem. headers 2.54 sold. → G 31 - 34
High-prec. male headers 2.54 solder → G 21 - 24

High-precision male headers soldering technique

Low profile

art. no.			art. no.		
MK LP 40 ...			MK LP 240 ...		
art. no.			art. no.		
MK LP 41 ...			MK LP 241 ...		
art. no.			art. no.		
MK LP 42 ...			MK LP 242 ...		
art. no.					
MK LP 43 ...					

please indicate:	... no. of contacts	... surface
	one row 1-50	G = gold-plated
	two rows 4-100	Z = tin-plated

Also available as single contact, SK ...

Special male & female headers → G 19
High-prec. fem. headers 1.27 solder → G 72
Technical data → G 75 - 80
High-prec.male headers 1.27 SMD → G 34 - 76
High-prec. male headers 2.54 solder → G 21 - 24
Single precision contacts → F 2 - 3
Male headers 2.54 SMD → G 37 - 42
Male headers 2.54 solder → G 8

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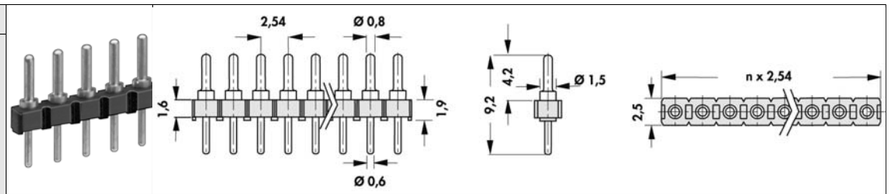
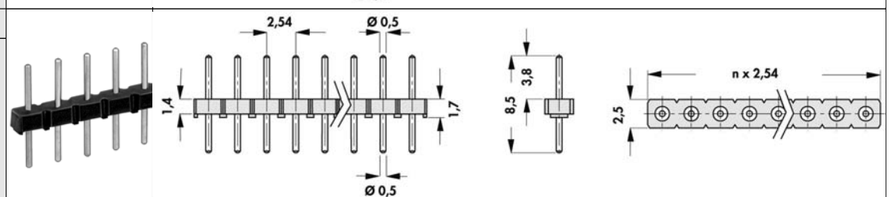
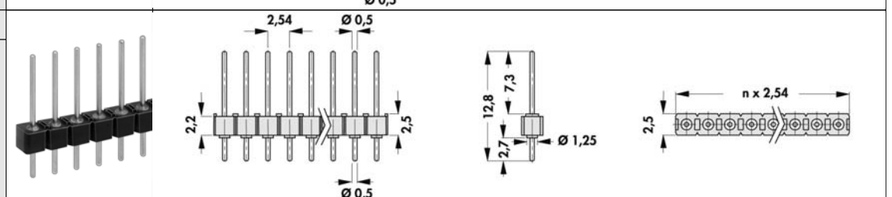
2.54

High-precision male headers soldering technique

Low profile

one row

art. no.	
SL 7 ...	
art. no.	
SL 8 ...	
art. no.	
SL 9 ...	

please indicate:

... no. of contacts
one row 1-20

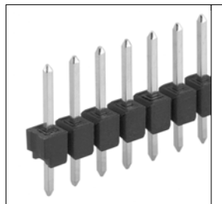
... surface
G = gold-plated
Z = tin-plated

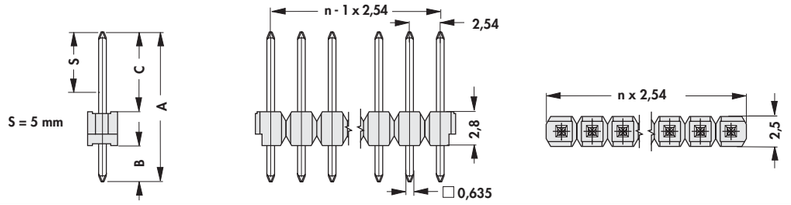
H
I
K
L
M
N

Male headers 2.54 SMD → G 37 - 42
Male headers 2.54 solder → G 8
Technical data → G 75 - 80
Jumpers → G 77 - 78
Special male & female headers → G 19
High-prec. fem. headers 2.54 sold. → G 31 - 34
High-prec. male headers 2.54 solder → G 21 - 24
Single precision contacts → F 2 - 3

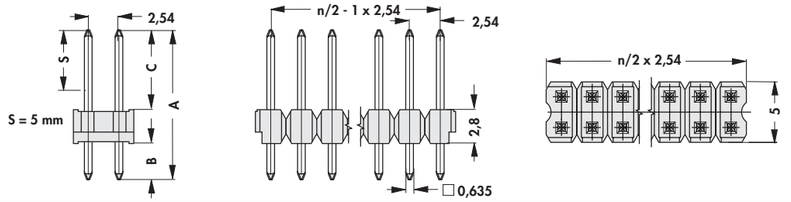
Male headers soldering technique

☐ 0.635 mm, standard





art. no.	dim. [mm]			art. no.	dim. [mm]		
	A	B	C		A	B	C
SL 11 097...	9.70	3.00	3.90	**SL 1 025 ...**	11.20	2.60	5.80
SL 11 112 ...	11.20	3.00	5.40	**SL 1 053 ...**	13.90	5.80	5.30
SL 11 124 ...	12.40	3.00	6.60	**SL 1 078 ...**	16.40	5.80	7.80
SL 11 139 ...	13.90	3.00	8.10	**SL 1 104 ...**	19.00	5.80	10.40
SL 11 164 ...	16.40	3.00	10.60	**SL 1 128 ...**	21.40	5.80	12.80
SL 11 190 ...	19.00	3.00	13.20	**SL 1 154 ...**	24.00	5.80	15.40
SL 11 214 ...	21.40	3.00	15.60	**SL 1 179 ...**	26.50	5.80	17.90
SL 11 240 ...	24.00	3.00	18.20	**SL 1 230 ...**	31.60	5.80	23.00
SL 11 265 ...	26.50	3.00	20.70		-	-	-
SL 11 316 ...	31.60	3.00	25.80				



art. no.	dim. [mm]			art. no.	dim. [mm]		
	A	B	C		A	B	C
SL 22 097 ...	9.70	3.00	3.90	**SL 2 025 ...**	11.20	2.60	5.80
SL 22 112 ...	11.20	3.00	5.40	**SL 2 053 ...**	13.90	5.80	5.30
SL 22 124 ...	12.40	3.00	6.60	**SL 2 078 ...**	16.40	5.80	7.80
SL 22 139 ...	13.90	3.00	8.10	**SL 2 104 ...**	19.00	5.80	10.40
SL 22 164 ...	16.40	3.00	10.60	**SL 2 128 ...**	21.40	5.80	12.80
SL 22 190 ...	19.00	3.00	13.20	**SL 2 154 ...**	24.00	5.80	15.40
SL 22 214 ...	21.40	3.00	15.60	**SL 2 179 ...**	26.50	5.80	17.90
SL 22 240 ...	24.00	3.00	18.20	**SL 2 230 ...**	31.60	5.80	23.00
SL 22 265 ...	26.50	3.00	20.70		-	-	-
SL 22 316 ...	31.60	3.00	25.80				

please indicate:

... no. of contacts
one row 1-36
two rows 2-72

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

Every pin length is available on request.

PC connector design DIL → H 2
Female headers 2.54 solder → G 27
Technical data → G 75 - 80
Fem. head. 2.54 solder, put through → G 29
Female headers 2.54 SMD → G 46 - 49
Special male & female headers → G 19
High-prec. fem. headers 2.54 sold. → G 31 - 34

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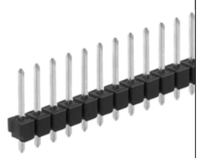
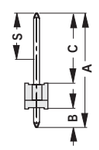
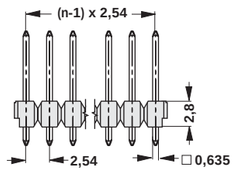
260°C THR **2.54**

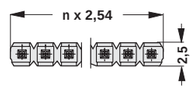
Male header in through-hole-reflow-soldering technique

☐ 0.635 mm, THR soldering technique





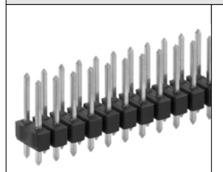


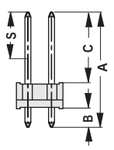


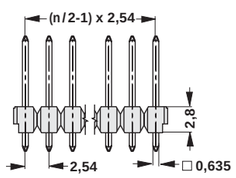
art. no.	dim. [mm] A	B	C
SL 20 THR 097 ...	9.70	2.00	4.90
SL 20 THR 112 ...	11.20	2.00	6.40
SL 20 THR 124 ...	12.40	2.00	7.60
SL 20 THR 139 ...	13.90	2.00	9.10
SL 20 THR 164 ...	16.40	2.00	11.60

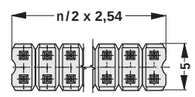
please indicate:
... no. of contacts
one row 1-36

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated









art. no.	dim. [mm] A	B	C
SL 21 THR 097 ...	9.70	2.00	4.90
SL 21 THR 112 ...	11.20	2.00	6.40
SL 21 THR 124 ...	12.40	2.00	7.60
SL 21 THR 139 ...	13.90	2.00	9.10
SL 21 THR 164 ...	16.40	2.00	11.60

please indicate:
... no. of contacts
two rows 2-72

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

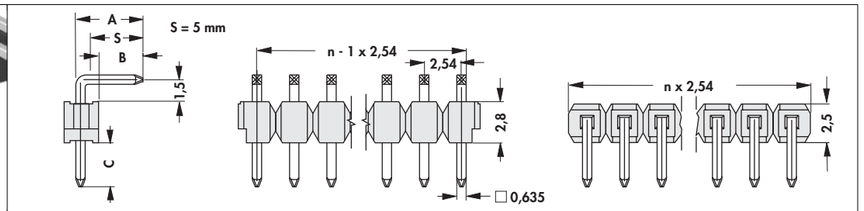
Every pin length is available on request.

Mounting tool for DIL/PLCC → F 14
Special male & female headers → G 18
Technical data → G 73 - 78
Single precision contacts → F 2 - 3
High-precis.male head.solder.techn. → G 4 - 18
High-prec.male head.in SMD mount. → G 35

Male headers soldering technique

"dimensions A + B" changeable

one row, □ 0.635 mm



art. no.	dim. [mm]			art. no.	dim. [mm]		
	A	B	C		A	B	C
SLK 3 025 ...	4.50	3.00	3.00	**SL 3 131 ...**	14.60	13.10	5.80
SL 3 025 ...	4.50	3.00	5.80	**SL 3 152 ...**	16.70	15.20	5.80
SL 3 053 ...	6.90	5.40	5.80	**SL 3 182 ...**	19.70	18.20	5.80
SL 3 080 ...	9.50	8.00	5.80	**SL 3 207 ...**	22.20	20.70	5.80
SL 3 101 ...	11.60	10.10	5.80				

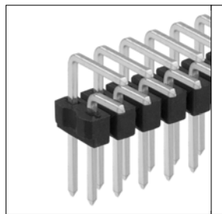
please indicate:

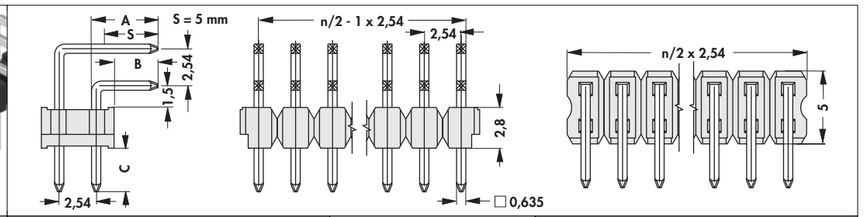
... no. of contacts
one row 1 - 36

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

The surface of dimension "C" of following articles is selective gold-plated: SLK 3 025 ... S, SL 3 025 ... S.

two rows, □ 0.635 mm





art. no.	dim. [mm]			art. no.	dim. [mm]		
	A	B	C		A	B	C
SLK 4 025 ...	4.50	3.00	3.00	**SL 4 101 ...**	11.60	10.10	5.80
SL 4 025 ...	4.50	3.00	5.80	**SL 4 152 ...**	16.70	15.20	5.80

please indicate:

... no. of contacts
two rows 2 - 72

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

The surface of dimension "C" of following articles is selective gold-plated: SLK 4 025 ... S, SL 4 025 ... S.

V-notches permit breaking! Therefore any required number of contacts is available.
Every pin length is available on request.

IDC-connectors → **H 1 - 14**
Female headers 2.54 solder → **G 27**
Female headers 2.54 SMD → **G 46 - 49**
Fem. head. 2.54 solder, put through → **G 29**
Special male & female headers → **G 19**
High-prec. fem. headers 2.54 sold. → **G 31 - 34**
High-prec.male head.in SMD mount. → **G 35**
Technical data → **G 75 - 80**

fischer elektronik

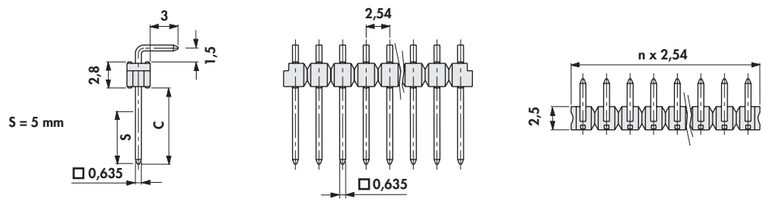
260°C

2.54

Male headers soldering technique

Insertion side "dimension C" changeable

one row, □ 0.635 mm



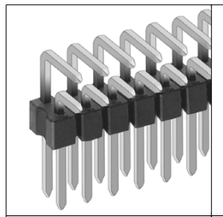
art. no.	dim. [mm] C
SL 18 042 ...	4.20
SL 18 082 ...	8.20
SL 18 108 ...	10.80
SL 18 132 ...	13.20
SL 18 159 ... S	15.90

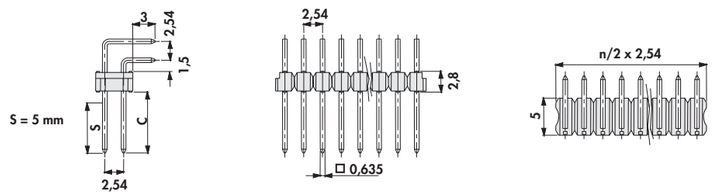
please indicate:

... no. of contacts
one row 1-36

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

two rows, □ 0.635 mm





art. no.	dim. [mm] C
SL 19 082 ...	8.20
SL 19 108 ...	10.80
SL 19 132 ...	13.20
SL 19 159 ... S	15.90

please indicate:

... no. of contacts
two rows 2-72

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

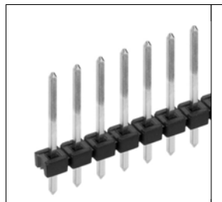
V-notches permit breaking! Therefore any required number of contacts is available.
Every pin length is available on request.

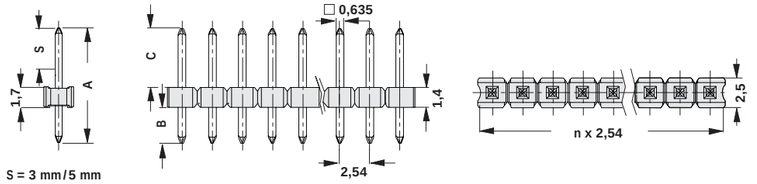
IDC-connectors → H 1 - 14
Technical data → G 75 - 80
Special male & female headers → G 19
High-prec. fem. headers 2.54 sold. → G 31 - 34
High-prec.male head.in SMD mount. → G 35
Female headers 2.54 solder → G 27
Fem. head. 2.54 solder, put through → G 29
Female headers 2.54 SMD → G 46 - 49

Male headers soldering technique

Low profile, straight

one row, ☐ 0.635 mm



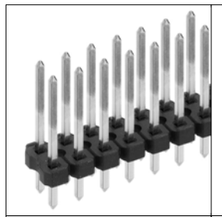


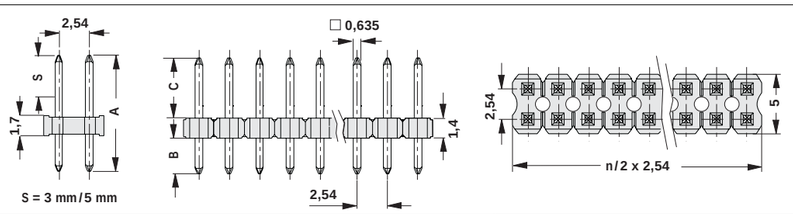
art. no.	dim. [mm]			art. no.	dim. [mm]		
	A	B	C		A	B	C
SL LP 1 082 ...	8.20	3.00	3.50	**SL LP 1 139 ...**	13.90	3.00	9.20
SL LP 1 097 ...	9.70	3.00	5.00	**SL LP 1 164 ...**	16.40	3.00	11.70
SL LP 1 112 ...	11.20	3.00	6.50	**SL LP 1 190 ...**	19.00	3.00	14.30

please indicate:
... no. of contacts
one row 1-36

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

two rows, ☐ 0.635 mm





art. no.	dim. [mm]			art. no.	dim. [mm]		
	A	B	C		A	B	C
SL LP 2 082 ...	8.20	3.00	3.50	**SL LP 2 139 ...**	13.90	3.00	9.20
SL LP 2 097 ...	9.70	3.00	5.00	**SL LP 2 164 ...**	16.40	3.00	11.70
SL LP 2 112 ...	11.20	3.00	6.50	**SL LP 2 190 ...**	19.00	3.00	14.30

please indicate:
... no. of contacts
two rows 2-72

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

Every pin length is available on request.

IDC-connectors → **H 1 - 14**
Female headers 2.54 SMD → **G 46 - 49**
Female headers 2.54 solder → **G 27**
Fem. head. 2.54 solder, put through → **G 29**
Jumpers → **G 77 - 78**
Special male & female headers → **G 19**
High-prec. fem. headers 2.54 sold. → **G 31 - 34**
Technical data → **G 75 - 80**

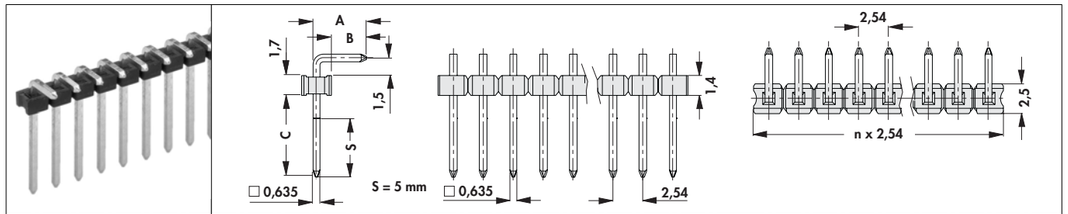
fischer elektronik

260°C | 2.54

Male headers soldering technique

Low profile, angled

one row, ☐ 0.635 mm



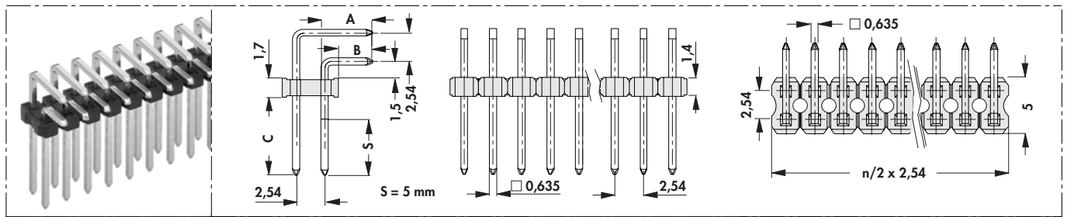
art. no.	dim. [mm] A	B	C	art. no.	dim. [mm] A	B	C
SL LP 3 041 ...	4.50	3.00	4.10	**SL LP 3 069 ...**	4.50	3.00	6.90

please indicate:

... no. of contacts
one row 1-36

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

two rows, ☐ 0.635 mm



art. no.	dim. [mm] A	B	C	art. no.	dim. [mm] A	B	C
SL LP 4 041 ...	4.50	3.00	4.10	**SL LP 4 069 ...**	4.50	3.00	6.90

please indicate:

... no. of contacts
two rows 2-72

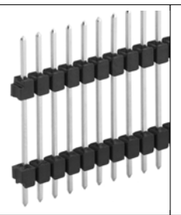
... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

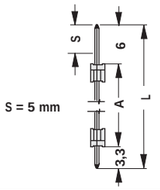
Every pin length is available on request.

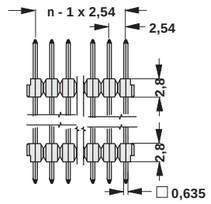
IDC-connectors → **H 1 - 14**
Jumpers → **G 77 - 78**
Female headers 2.54 solder → **G 27**
Fem. head. 2.54 solder, put through → **G 29**
Female headers 2.54 SMD → **G 46 - 49**
Special male & female headers → **G 19**
High-prec. fem. headers 2.54 sold. → **G 31 - 34**
Technical data → **G 75 - 80**

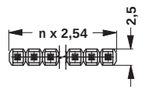
Male headers soldering technique

☐ 0.635 mm, Sandwich

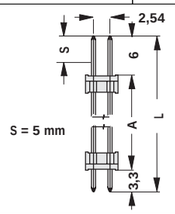


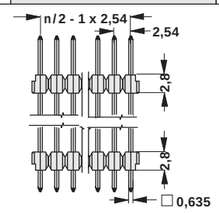


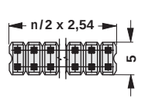




art. no.	dim. [mm] A	dim. [mm] L	art. no.	dim. [mm] A	dim. [mm] L
SL 5 071 ...	7.10	16.40	**SL 5 223 ...**	22.30	31.60
SL 5 097 ...	9.70	19.00	**SL 5 237 ...**	23.70	33.00
SL 5 121 ...	12.10	21.40	**SL 5 285 ...**	28.50	37.80
SL 5 147 ...	14.70	24.00	**SL 5 315 ...**	31.50	40.80
SL 5 156 ...	15.60	24.90	**SL 5 360 ...**	36.00	45.30
SL 5 172 ...	17.20	26.50	**SL 5 415 ...**	41.50	50.80
SL 5 197 ...	19.70	29.00	**SL 5 525 ...**	52.20	61.50







art. no.	dim. [mm] A	dim. [mm] L	art. no.	dim. [mm] A	dim. [mm] L
SL 6 071 ...	7.10	16.40	**SL 6 223 ...**	22.30	31.60
SL 6 097 ...	9.70	19.00	**SL 6 237 ...**	23.70	33.00
SL 6 121 ...	12.10	21.40	**SL 6 285 ...**	28.50	37.80
SL 6 147 ...	14.70	24.00	**SL 6 315 ...**	31.50	40.80
SL 6 156 ...	15.60	24.90	**SL 6 360 ...**	36.00	45.30
SL 6 172 ...	17.20	26.50	**SL 6 415 ...**	41.50	50.80
SL 6 197 ...	19.70	29.00	**SL 6 525 ...**	52.20	61.50

please indicate:
... no. of contacts
one row 1-36
two rows 2-72

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

"S" selective gold-plated to 33.0 mm pin length

For interconnections of stacked PCBs. Within the total length the insulator position can be changed as required. ... Design specification. V-notches permit breaking! Therefore any required number of contacts is available.

IDC-connectors → H 1 - 14
Technical data → G 75 - 80
High-prec. fem. headers 2.54 sold. → G 31 - 34
Special male & female headers → G 19
Jumpers → G 77 - 78
Female headers 2.54 SMD → G 46 - 49
Fem. head. 2.54 solder, put through → G 29
Female headers 2.54 solder → G 27

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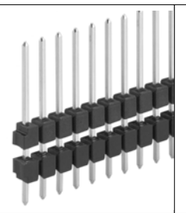
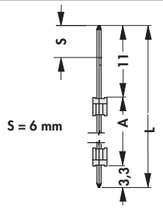
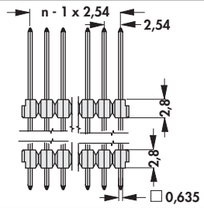
260°C | 2.54

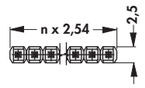
Male headers soldering technique

☐ 0,635 mm, Sandwich

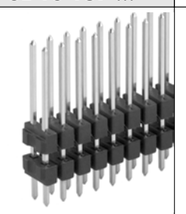


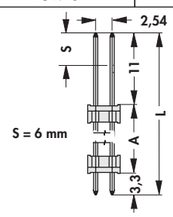


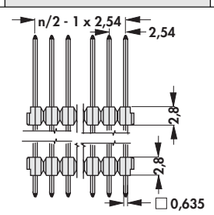


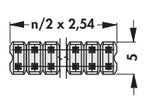


art. no.	dim. [mm] A	dim. [mm] L	art. no.	dim. [mm] A	dim. [mm] L
SL 13 071 ...	7.10	21.40	**SL 13 235 ...**	23.50	37.80
SL 13 097 ...	9.70	24.00	**SL 13 265 ...**	26.50	40.80
SL 13 122 ...	12.20	26.50	**SL 13 310 ...**	31.00	45.30
SL 13 147 ...	14.70	29.00	**SL 13 365 ...**	36.50	50.80
SL 13 187 ...	18.70	33.00			









art. no.	dim. [mm] A	dim. [mm] L	art. no.	dim. [mm] A	dim. [mm] L
SL 14 071 ...	7.10	21.40	**SL 14 235 ...**	23.50	37.80
SL 14 097 ...	9.70	24.00	**SL 14 265 ...**	26.50	40.80
SL 14 122 ...	12.20	26.50	**SL 14 310 ...**	31.00	45.30
SL 14 147 ...	14.70	29.00	**SL 14 365 ...**	36.50	50.80
SL 14 187 ...	18.70	33.00			

please indicate:

... no. of contacts
one row 1-36
two rows 2-72

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

"S" selective gold-plated to 33.0 mm pin length

For interconnections of stacked PCBs. The male headers SL 13 and SL 14 are used to connect BL 11 (SL 13 ...) and BL 12 (SL 14 ...).
Suitable for PCBs 1.5 mm - 3.0 mm thick.
V-notches permit breaking! Therefore any required number of contacts is available. Every pin length is available on request.

Female headers 2.54 solder → **G 27**
Fem. head. 2.54 solder, put through → **G 29**
Female headers 2.54 SMD → **G 46 - 49**
IDC-connectors → **H 1 - 14**
Jumpers → **G 77 - 78**
Special male & female headers → **G 19**
High-prec. fem. headers 2.54 sold. → **G 31 - 34**
Technical data → **G 75 - 80**

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fischer elektronik

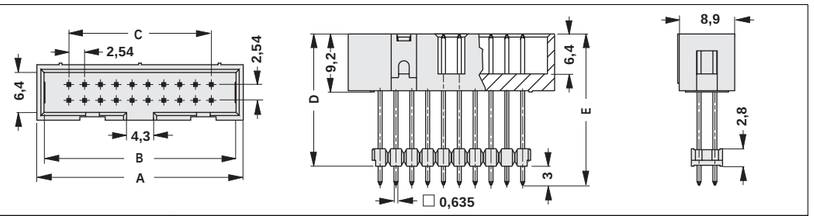
260°C

2.54

Male headers soldering technique

Shroud male header, with coding, boltable

suitable for many flat cable connectors in 2.54 mm pitch



art. no.	no. of contacts	dim. [mm]		
		A	B	C
SLU 10 ...	10	20.40	17.80	10.16
SLU 16 ...	16	28.00	25.40	17.78
SLU 20 ...	20	33.10	30.50	22.86
SLU 26 ...	26	40.70	38.10	30.48
SLU 40 ...	40	58.50	55.90	48.26
SLU 50 ...	50	71.20	68.60	60.96

please indicate:

... surface
S = selective gold-plated
Z = tin-plated

... height "E"
165
191
241
266

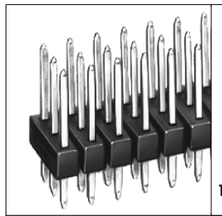
height "E"	dim. [mm]	
	D	E (max.)
165	13.50	16.50
191	16.10	19.10
241	21.10	24.10
266	23.60	26.60

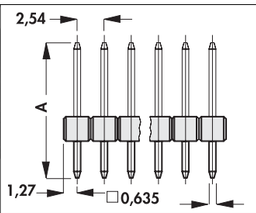
Technical data → **G 75 - 80**
High-prec. fem. headers 2.54 sold. → **G 31 - 34**
Special male & female headers → **G 19**
Jumpers → **G 77 - 78**
Female headers 2.54 SMD → **G 46 - 49**
Female headers 2.54 solder → **G 27**
Fem. head. 2.54 solder, put through → **G 29**
IDC-connectors → **H 1 - 14**

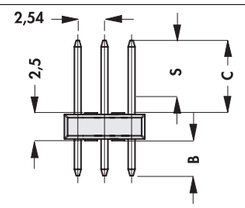
Male headers soldering technique

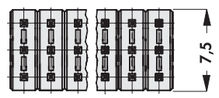
Three rows, □ 0.635 mm - standard

straight





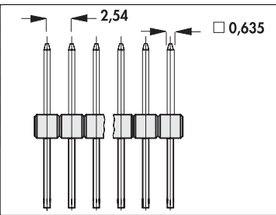


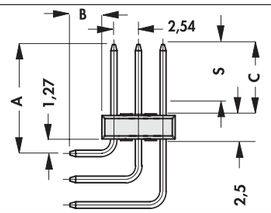


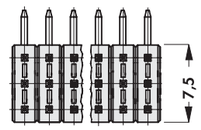
art. no.	dim. [mm] A	B	C	art. no.	dim. [mm] A	B	C
SL KG 3 113 ...	11.30	3.30	5.50	**SL KG 3 147 ...**	14.70	3.30	8.90
SL KG 3 126 ...	12.60	3.30	6.80				

please indicate: **... no. of contacts three rows 3-150** **... surface G=gold-plated Z=tin-plated**

angled







art. no.	dim. [mm] A	B	C	art. no.	dim. [mm] A	B	C
SL KA 3 072 ...	7.20	3.30	3.40	**SL KA 3 108 ...**	10.80	3.30	7.00
SL KA 3 085 ...	8.50	3.30	4.70				

please indicate: **... no. of contacts three rows 3-150** **... surface G=gold-plated Z=tin-plated**

IDC-connectors → H 1 - 14
Female headers 2.54 solder → G 27
Jumpers → G 77 - 78
Fem. head. 2.54 solder, put through → G 29
Female headers 2.54 SMD → G 46 - 49
Special male & female headers → G 19
High-prec. fem. headers 2.54 sold. → G 31 - 34
Technical data → G 75 - 80

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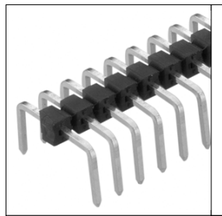
Male headers soldering technique

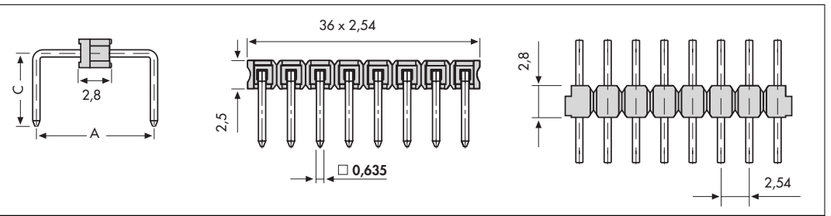
2.54

Empty page

Jumper links

Grid spacing 2.54 mm, □ 0.635 mm

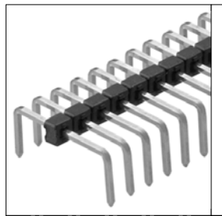


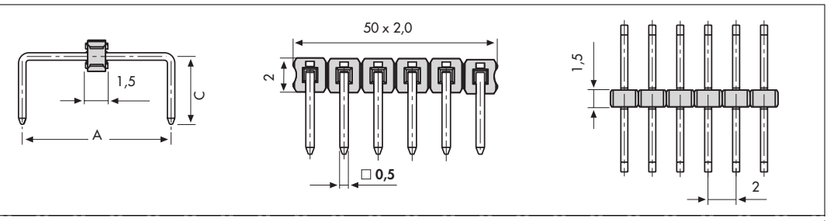


art. no.	dim. [mm] A	C
LB SL 0508 ...	5.08	6.10
LB SL 0762 ...	7.62	6.10
LB SL 1016 ...	10.16	6.10
LB SL 1524 ...	15.24	6.10

please indicate: **... surface**
G = gold-plated
Z = tin-plated

Grid spacing 2.00 mm, □ 0.5 mm





art. no.	dim. [mm] A	C
LB SLY 06 ...	6.00	4.50

please indicate: **... surface**
G = gold-plated
Z = tin-plated

Dimension "A" available in 4 versions. Dimension "C" variable (on request).
Jumper links are also available in grid spacing 1.27 mm.

V-notches permit breaking! Therefore any required number of contacts is available.

Male headers 2.00 solder → **G 56 - 58**
Male headers 2.54 solder → **G 8 - 18**
Technical data → **G 75 - 80**
Connector-sleeves → **F 25 - 27**
Jumpers → **G 77 - 78**
Single contacts metal strip → **G 26**
Single precision contacts → **F 2 - 3**

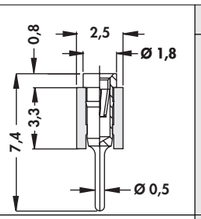
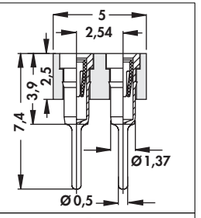
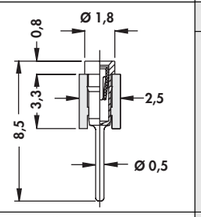
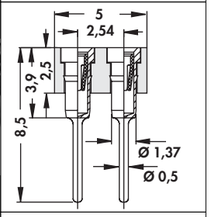
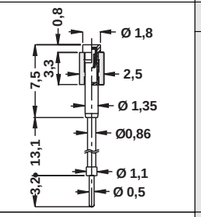
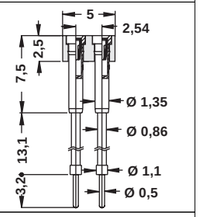
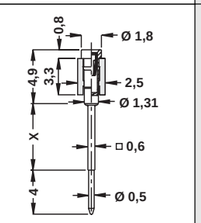
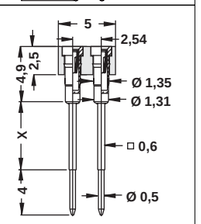
fischer elektronik

260°C

2.54

High-precision female headers soldering technique

for Ø 0.5 mm

art. no.			art. no.		
MK 01 ...			**MK 201 ...**		
art. no.			**art. no.**		
MK 17 ...			**MK 217 ...**		
art. no.			**art. no.**		
MK 12 X 2 ...			**MK 212 X 2 ...**		
					
art. no.	X		**art. no.**	X	
MK 13 X 1 ...	5.9		**MK 213 X 1 ...**	5.9	
MK 13 X 2 ...	8.9		**MK 213 X 2 ...**	8.9	

please indicate:

... no. of contacts
one row 1-50
two rows 2-100

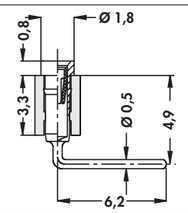
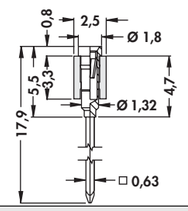
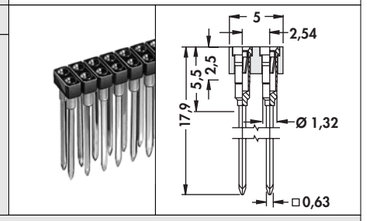
... surface
G=gold-plated
Z=tin-plated

contact spring: gold-plated

Special male & female headers → **G 19**
Single precision contacts → **F 2 - 3**
High-precision female headers → **G 3 - 5**
Jump. links 2.00 & 2.54 solder → **G 20**
Peel-off terminal strips → **G 25**
Single contacts metal strip → **G 26**
Technical data → **G 75 - 80**

High-precision female headers soldering technique

for Ø 0.5 mm

art. no.				
MK 06 ...				
art. no.			art. no.	
MK 07 ...			MK 207 ...	

please indicate:

... no. of contacts
one row 1-50
two rows 2-100

... surface
G = gold-plated
Z = tin-plated

contact spring: gold-plated

Special male & female headers → G 19
Technical data → G 75 - 80
High-prec. fem. headers 2.54 sold. → G 31 - 34
Single contacts metal strip → G 26
Jump. links 2.00 & 2.54 solder → G 20
High-precision female headers → G 3 - 5
Single precision contacts → F 2 - 3

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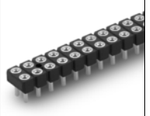
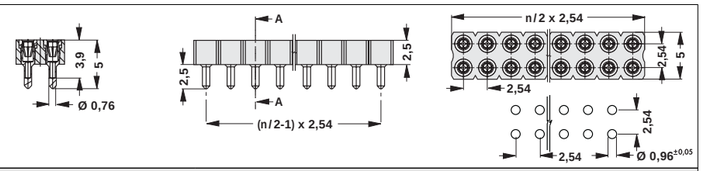
260°C THR **2.54**

High precision female header in through-hole-reflow-soldering technique

High-precision female headers THR soldering technique for Ø 0.5 mm

THR: Through-Hole-Reflow-soldering technique, connector to be soldered with modified insert technique in Reflow-soldering method)

art. no.		
MK 228 THR ...		

please indicate:

... no. of contacts
two rows 2-40

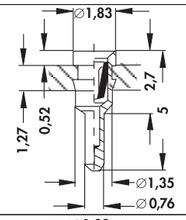
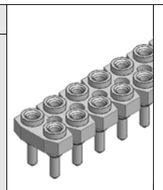
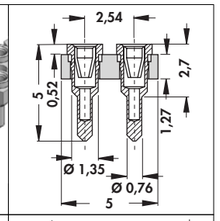
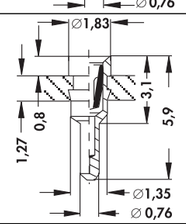
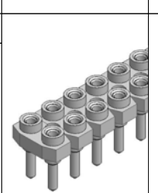
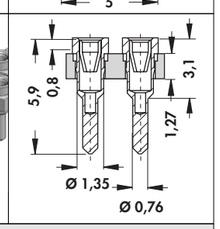
... surface
G = gold-plated
Z = tin-plated

contact spring: gold-plated

High-precision female headers soldering technique

Low profile, less than 2.7/3.1 mm above P.C.B. - with contact spring for Ø 0.5 mm pins

solder and plug pin Ø 0.76 mm

art. no.			art. no.		
MK LP 18 ...			MK LP 218 ...		
art. no.			art. no.		
MK LP 19 ...			MK LP 219 ...		

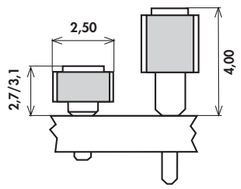
please indicate:

... no. of contacts
one row 1-50
two rows 4-100

... surface
G = gold-plated
Z = tin-plated

contact spring: gold-plated

Low profile: 2.7/3.1 mm above P.C.B.; standard profile: 4 mm



High-prec. fem. headers 2.54 sold. → G 31 - 34
Single precision contacts → F 2 - 3
Technical data → G 75 - 80
High-precision female headers → G 3 - 5

Jump. links 2.00 & 2.54 solder → G 20
Single contacts metal strip → G 26
Special male & female headers → G 19

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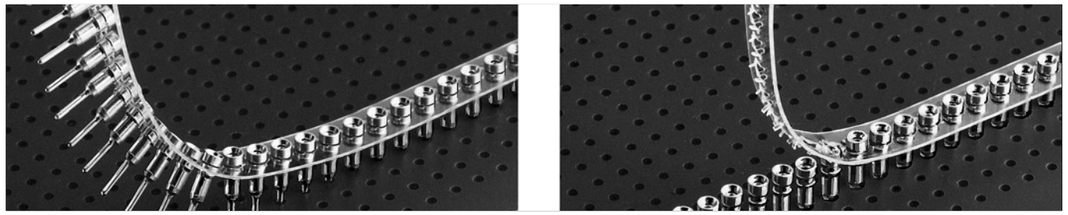
2.54

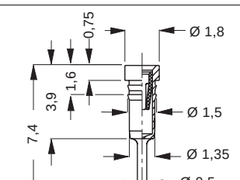
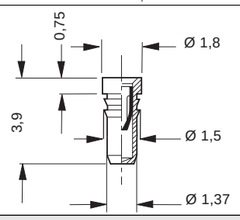
Terminal strips soldering technique

Peel-off



High-precision contacts are mounted into a temperature resistant carrier strip, which will be peeled off after soldering.
Specially equipped on request.

Technical data of carrier foil:
max. tensile strength (MD): 193 N/mm²
max. thermal expansion - longitudinal direction: 1.7 x 10^{-5} mm/°C
melting point: 250 °C

art. no.		
PO A ...		
art. no.		
PO B ...		

please indicate: **... no. of contacts** **customer's request** **... surface** **G = gold-plated** **Z = tin-plated**

contact spring: gold-plated

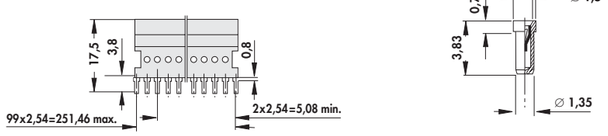
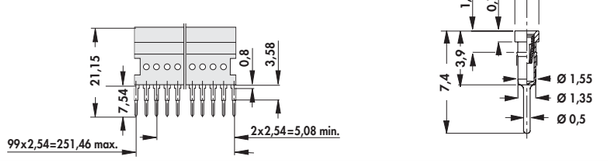
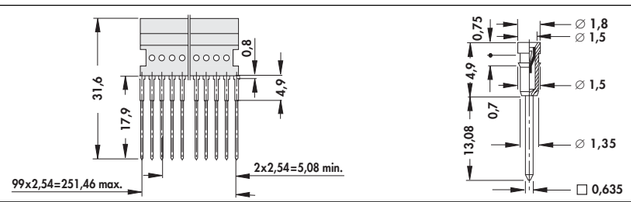
number of contacts: from 2 pins to endless

G 25

Special male & female headers	**→ G 19**	**Jump. links 2.00 & 2.54 solder**	**→ G 20**
Female headers 2.54 press-fit	**→ G 53**	**Single precision contacts**	**→ F 2 - 3**
Single contacts metal strip	**→ G 26**	**High-prec.male head.in SMD mount.**	**→ G 35**
Technical data	**→ G 75 - 80**	**Male headers 2.54 press-fit**	**→ G 51**

Terminal strips soldering technique

Single in-line carrier

art. no. **SIL 1 ...**		
art. no. **SIL 2 ...**		
art. no. **SIL 3 ...**		

please indicate:

... no. of contacts
one row 2 - 100

... surface
G = gold-plated
Z = tin-plated

contact spring: gold-plated

A B C D E F G H I K L M N

Female headers 2.54 press-fit → G 53
Special male & female headers → G 19
Jump. links 2.00 & 2.54 solder → G 20
Technical data → G 75 - 80

Peel-off terminal strips → G 25
Single precision contacts → F 2 - 3
Jump. links 2.00 & 2.54 solder → G 20
Male headers 2.54 press-fit → G 51

fischer elektronik

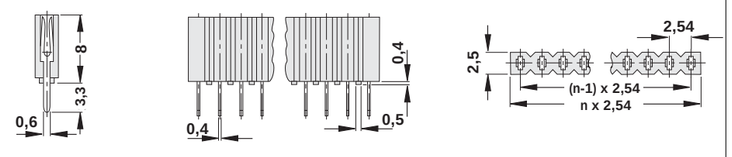
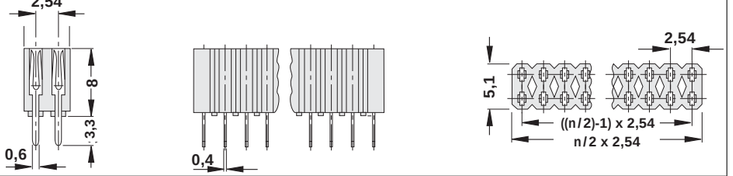
260°C

2.54

Female headers soldering technique

Stamped contact spring (fork contact)

for ☐ 0.635 mm, straight

art. no.		
BL 1 ...		
art. no.		
BL 2 ...		

please indicate:

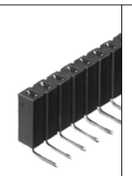
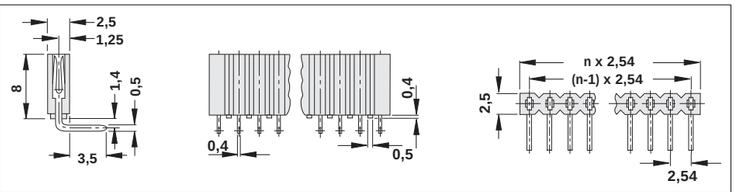
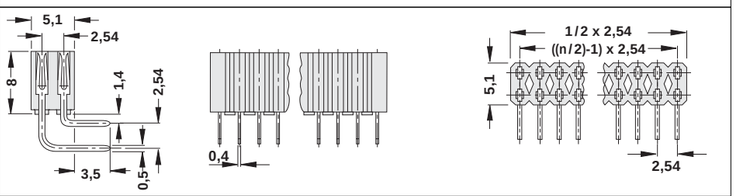
... no. of contacts
one row 1-36
two rows 2-72

... surface
G = gold-plated
Z = tin-plated

V-notches permit breaking! Therefore any required number of contacts is available.

Stamped contact spring (fork contact)

for ☐ 0.635 mm, angled

art. no.		
BL 3 ...		
art. no.		
BL 4 ...		

please indicate:

... no. of contacts
one row 1-36
two rows 2-72

... surface
G = gold-plated
Z = tin-plated

V-notches permit breaking! Therefore any required number of contacts is available.

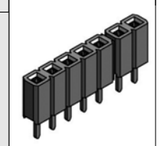
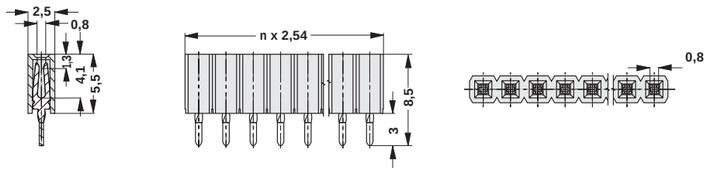
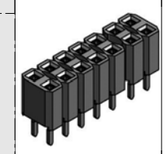
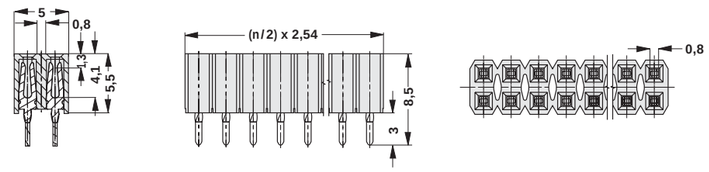
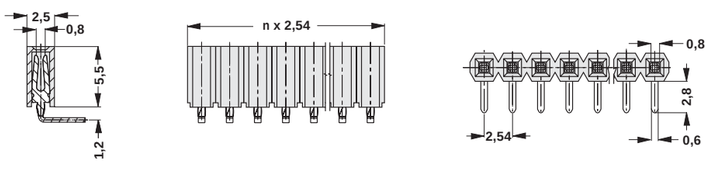
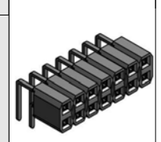
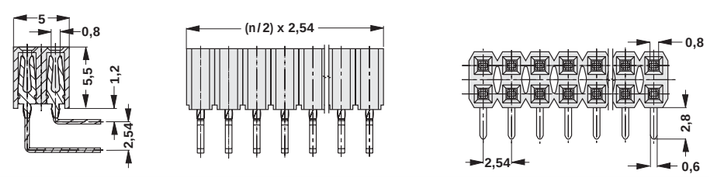
BL 4 ...: packing (option) bar magazine (min. 6 contacts)

High-prec. fem. headers 2.54 sold. → **G 31 - 34**
Female headers 2.54 press-fit → **G 53**
Technical data → **G 75 - 80**
Fem. head. 2.54 solder, put through → **G 29**
Female headers 2.54 SMD → **G 46 - 49**
Jump. links 2.00 & 2.54 solder → **G 20**
Direct female connectors → **G 54 - 55**

Female headers soldering technique

Low profile, fork contact

for □ 0.635 mm, straight

art. no.		
BL LP 1 ...		
art. no.		
BL LP 2 ...		
art. no.		
BL LP 3 ...		
art. no.		
BL LP 4 ...		

please indicate:

... no. of contacts
one row 1-36
two rows 2-72

... surface
S = selective gold-plated
Z = tin-plated

V-notches permit breaking! Therefore any required number of contacts is available.

BL LP 4 ...: packing (option) bar magazine (min. 6 contacts)

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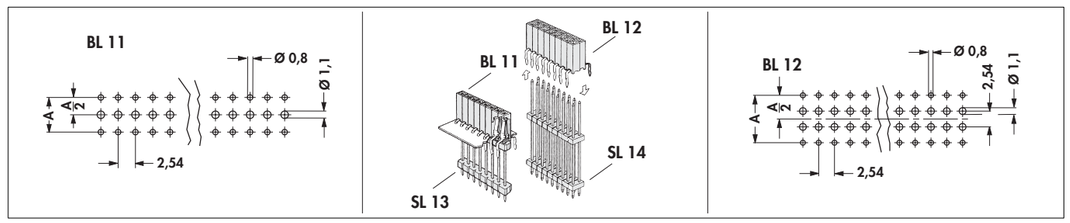
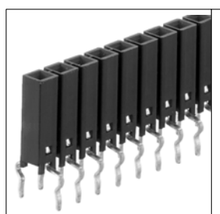
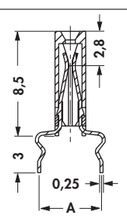
2.54

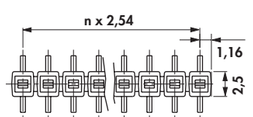
Female headers soldering technique

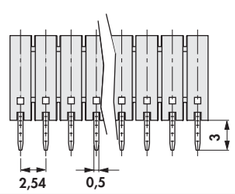


for □ 0.635 mm, can be put through from above or below / 260 °C Reflow







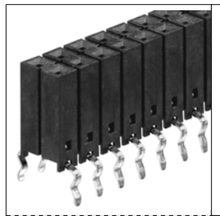


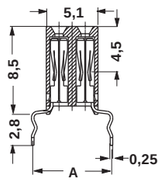
art. no.	dim. [mm] A
BL 11 254 ...	2.54
BL 11 508 ...	5.08

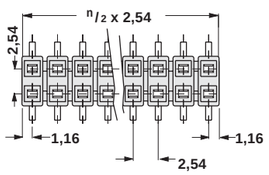
please indicate:
... no. of contacts one row 1-45
... surface S = selective gold-plated, Z = tin-plated

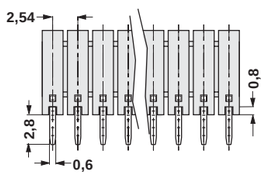
packed: bar magazine
Stamped contact spring.
Can be cut! Every desired number of contacts can be delivered.

for □ 0,635 mm, can be put through from above or below









art. no.	dim. [mm] A
BL 12 650 ...	6.50
BL 12 762 ...	7.62

please indicate:
... no. of contacts two rows 2-90
... surface S = selective gold-plated, Z = tin-plated

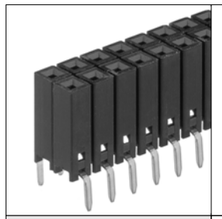
packed: bar magazine
Stamped contact spring.
Can be cut! Every desired number of contacts can be delivered.

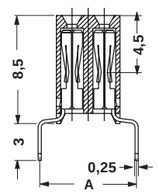
G 29

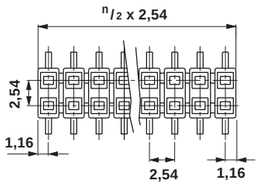
Male headers 2.54 solder	**→ G 8**	**Male headers 2.00 SMD**	**→ G 61 - 62**
Male headers 2.54 SMD	**→ G 37 - 42**	**Male headers 2.00 solder**	**→ G 56 - 58**
Technical data	**→ G 75 - 80**	**High-prec. fem. headers 2.54 sold.**	**→ G 31 - 34**
Special male & female headers	**→ G 19**	**Female headers 2.54 solder**	**→ G 27**

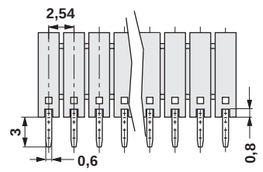
Female headers soldering technique

for □ 0,635 mm, can be put through from above









art. no.	dim. [mm] A
BL 21 650 ...	6.50
BL 21 762 ...	7.62

please indicate:

... no. of contacts
two rows 2-64

... surface
S = selective gold-plated
Z = tin-plated

packed: bar magazine
Stamped contact spring.
Can be cut! Every desired number of contacts can be delivered.

A B C D E F G H I K L M N

Male headers 2.54 solder → G 8
Male headers 2.54 SMD → G 37 - 42
Male headers 2.00 SMD → G 61 - 62
Male headers 2.00 solder → G 56 - 58
High-prec. fem. headers 2.54 sold. → G 31 - 34
Female headers 2.54 solder → G 27
Jump. links 2.00 & 2.54 solder → G 20
High-prec.male head.in SMD mount. → G 35

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260°C

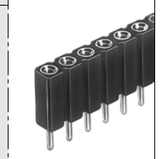
2.54

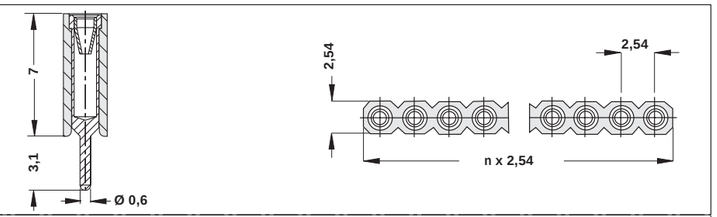
High-precision female headers soldering technique

for □ 0.635 mm and up to 0.85 mm Ø

art. no.

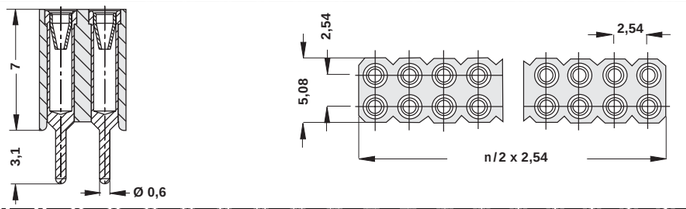
BL 5 ...





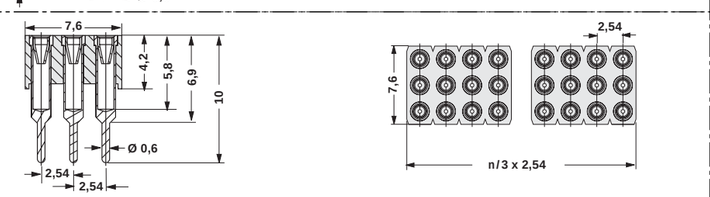
art. no.

BL 6 ...



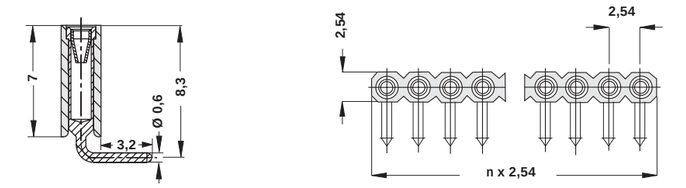
art. no.

BL KG 3 ...



art. no.

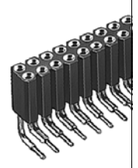
BL 7 ...

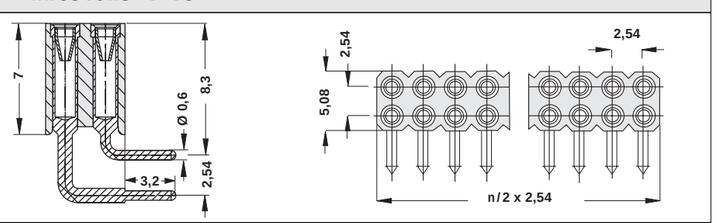


please indicate: **... no. of contacts**
one row 1-36
two rows 2-72
three rows 9-96

art. no.

BL 8 ...





please indicate: **... no. of contacts**
two rows 4-72

contact shell surface: tin-plated
contact spring: gold-plated

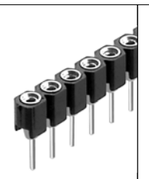
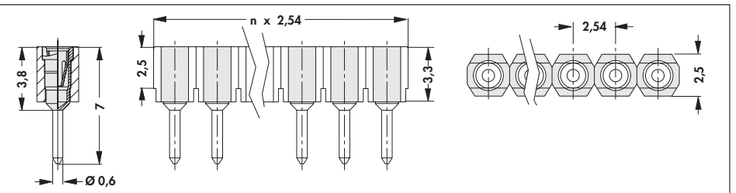
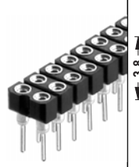
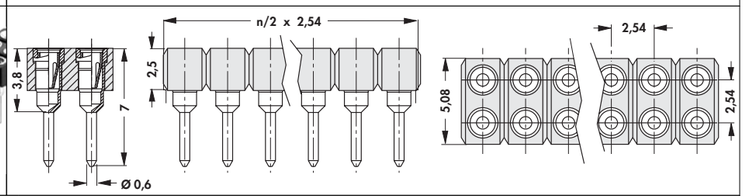
BL 8 ...: packing (option) bar magazine (min. 6 contacts)
No capilliary action when soldering due to protected contact insert.
V-notches permit breaking! Therefore any required number of contacts is available.

G 31

Female headers 2.00 solder → **G 60**
Female headers 2.00 SMD → **G 64**
Technical data → **G 75 - 80**
High-precision female headers → **G 3 - 5**
Male headers 2.00 solder → **G 56 - 58**
Male headers 2.54 solder → **G 8**
Male headers 2.54 SMD → **G 37 - 42**

High-precision female headers soldering technique

for □ 0.635 mm and up to 0.85 mm Ø

art. no.		
MK 21 ...		
art. no.		
MK 221 ...		

please indicate: ... **no. of contacts**
one row 1-50
two rows 2-100

contact shell surface: tin-plated
contact spring: gold-plated

No capilliary action when soldering due to protected contact insert.
V-notches permit breaking! Therefore any required number of contacts is available.

Male headers 2.54 SMD → G 37 - 42
Technical data → G 75 - 80
Male headers 2.54 solder → G 8
High-precision female headers → G 3 - 5
Male headers 2.00 solder → G 56 - 58
Female headers 2.00 SMD → G 64
Female headers 2.00 solder → G 60

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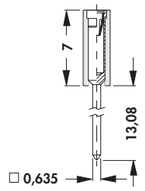
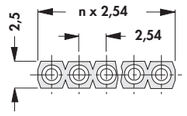
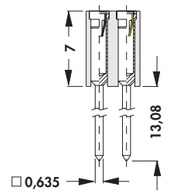
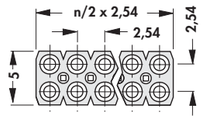
260°C

2.54

High-precision female headers soldering technique

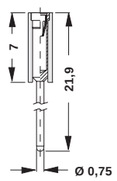
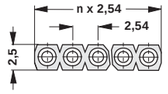
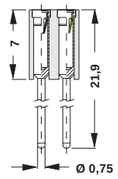
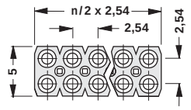
for □ 0.635 mm and up to 0.85 mm Ø

with aligned contact pin

art. no.			
BL 9 ...			
art. no.			
BL 10 ...			
please indicate:		... no. of contacts one row 1-36 two rows 2-72	

contact shell surface: tin-plated
contact spring: gold-plated
No capilliary action when soldering due to protected contact insert.
V-notches permit breaking! Therefore any required number of contacts is available.

for PC 104 modules

art. no.			
BL 13 ...			
art. no.			
BL 14 ...			
please indicate:		... no. of contacts one row 1-36 two rows 2-72	

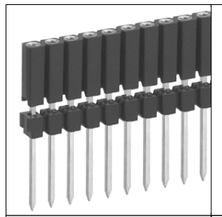
contact shell surface: gold-plated
contact spring: gold-plated
No capilliary action when soldering due to protected contact insert.
V-notches permit breaking! Therefore any required number of contacts is available.

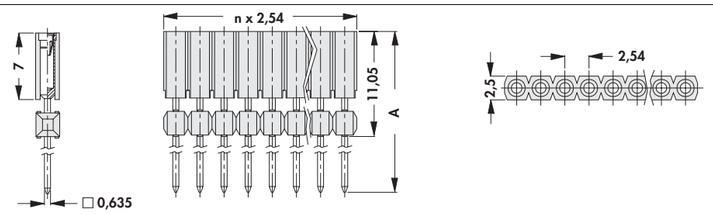
Male headers 2.00 solder → G 56 - 58
High-precision female headers → G 3 - 5
Male headers 2.54 solder → G 8
Male headers 2.54 SMD → G 37 - 42
Female headers 2.00 solder → G 60
Female headers 2.00 SMD → G 64
Technical data → G 75 - 80

High-precision female headers soldering technique

for □ 0.635 mm and up to 0.85 mm Ø - for PC 104 modules

one row, 1-36 contacts

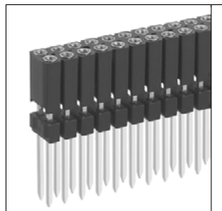


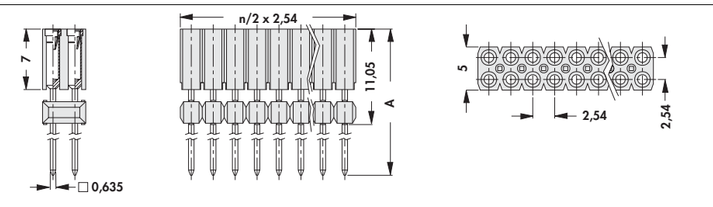


art. no.	dim. [mm] A
BL 18 141 ...	14.10
BL 18 219 ...	21.90

please indicate: **... no. of contacts one row 1-36**

two rows, 2-72 contacts





art. no.	dim. [mm] A
BL 19 141 ...	14.10
BL 19 219 ...	21.90

please indicate: **... no. of contacts two rows 2-72**

contact shell surface and contact spring: gold-plated

No capilliary action when soldering due to protected contact insert.
V-notches permit breaking! Therefore any required number of contacts is available.

Technical data → **G 75 - 80**
Female headers 2.00 solder → **G 60**
Female headers 2.00 SMD → **G 64**
High-prec. male headers 2.54 solder → **G 5 - 21**
Male headers 2.00 solder → **G 56 - 58**
Male headers 2.54 solder → **G 8**
Male headers 2.54 SMD → **G 37 - 42**

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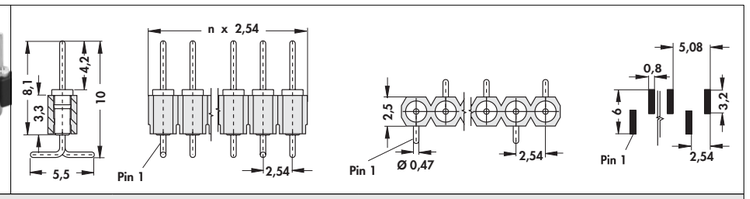
260°C

2.54

High-precision male headers in SMD mounting

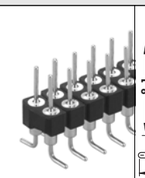
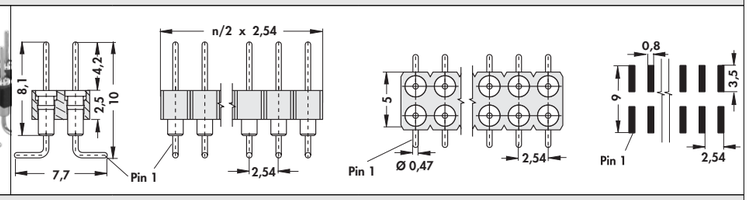
art. no.		
MK 26 SMD ...		

please indicate:

... no. of contacts
one row 4-20

... surface
G = gold-plated
Z = tin-plated

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine

art. no.		
MK 226 SMD ...		

please indicate:

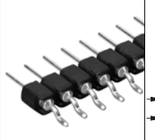
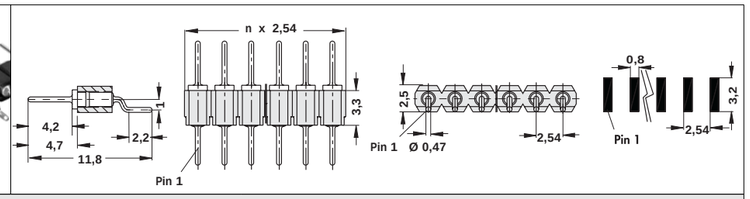
... no. of contacts
two rows 4-40

... surface
G = gold-plated
Z = tin-plated

... packing (option)
SM = bar magazine 6 pol.
B SM = pick and place pad and bar magazine

... packing (option) - additions: MK 226 SMD ... SM and ... B SM: 6-40 contacts

For further informations please see "for automatic assembly" following this series!

art. no.		
MK 27 SMD ...		

please indicate:

... no. of contacts
one row 2-20

... surface
G = gold-plated
Z = tin-plated

Female headers 2.54 solder → G 27
Female headers 2.54 SMD → G 46 - 49
Female headers 2.54 press-fit → G 53
Female headers 1.27 SMD → G 74
Female headers 2.00 SMD → G 64
High-precision female headers → G 3 - 5

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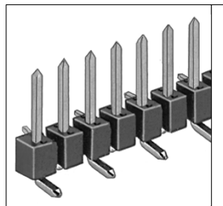
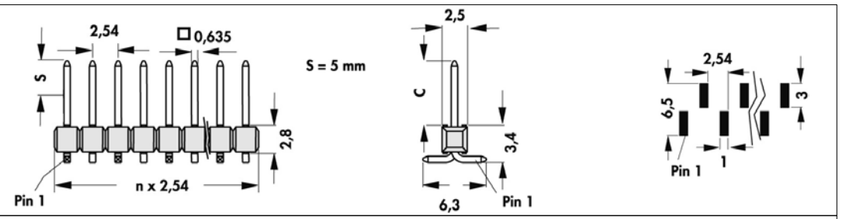
2.54

Male headers in SMD mounting

□ 0.635 mm





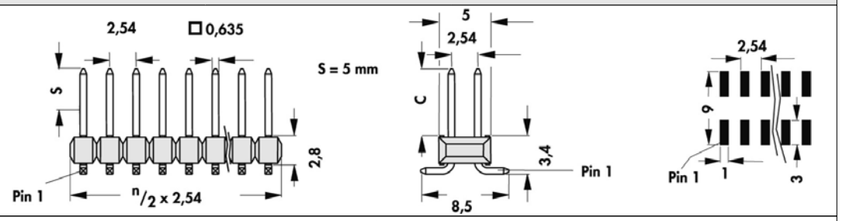
art. no.	dim. [mm] C
SL 10 SMD 040 ...	4.00
SL 10 SMD 052 ...	5.50
SL 10 SMD 062 ...	6.70
SL 10 SMD 078 ...	8.20
SL 10 SMD 104 ...	10.80
SL 10 SMD 130 ...	13.40

please indicate:

... no. of contacts
one row 4-20

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (250 pcs/reel)



art. no.	dim. [mm] C
SL 11 SMD 040 ...	4.00
SL 11 SMD 052 ...	5.50
SL 11 SMD 062 ...	6.70
SL 11 SMD 078 ...	8.20
SL 11 SMD 104 ...	10.80
SL 11 SMD 130 ...	13.40

please indicate:

... no. of contacts
two rows 4-40

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (250 pcs/reel)

... packing (option) - additions:
SL 10 SMD 052-104 ...: ... SM; ... B SM, 4-20 contacts
SL 10 SMD 052-078 ...: ... B TR, 4-12 contacts
SL 11 SMD 052-104 ...: ... SM; ... B SM, 6-40 contacts

Male headers 2.54 solder → G 8
Male headers 2.00 SMD → G 61 - 62
Single contacts metal strip → G 26
Technical data → G 75 - 80
High-prec. fem. headers 2.54 sold. → G 31 - 34
Female headers 2.00 SMD → G 64
Female headers 2.54 press-fit → G 53
Jumpers → G 77 - 78

Male headers in SMD mounting

SL 11 SMD 052-078 ...: ... B TR, 6-24 contacts

For further informations please see "for automatic assembly" following this series!

Male headers 2.54 solder → G 8
Male headers 2.00 SMD → G 61 - 62
Single contacts metal strip → G 26
Technical data → G 75 - 80
High-prec. fem. headers 2.54 sold. → G 31 - 34
Female headers 2.00 SMD → G 64
Female headers 2.54 press-fit → G 53
Jumpers → G 77 - 78

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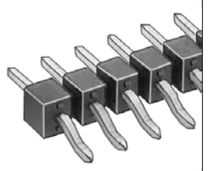
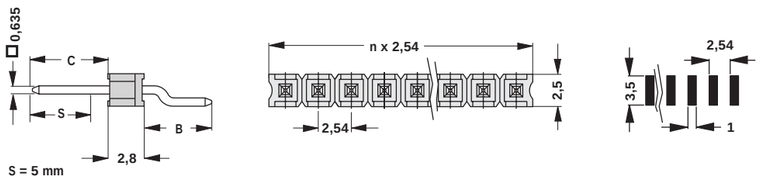
2.54

Male headers in SMD mounting

□ 0.635 mm



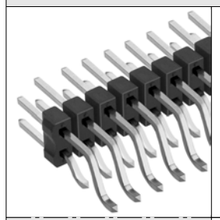


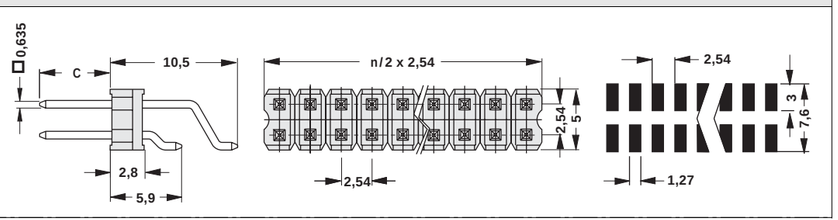
art. no.	surface	dim. [mm] B	dim. [mm] C
SL 12 SMD 031 ...	S/ G/ Z	5.20	3.10
SL 12 SMD 032 ...	G/ Z	3.20	5.80
SL 12 SMD 058 ...	S/ G/ Z	5.20	5.80
SL 12 SMD 083 ...	S/ G/ Z	5.20	8.30
SL 12 SMD 109 ...	S/ G/ Z	5.20	10.90

please indicate:
... no. of contacts
one row 2-20

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... packing (option)
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (500 pcs/reel)





art. no.	dim. [mm] C
SL 17 SMD 058 ...	5.80
SL 17 SMD 083 ...	8.30
SL 17 SMD 109 ...	10.90

please indicate:
... no. of contacts
two rows 4-40

... surface
G = gold-plated
Z = tin-plated

... packing (option)
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (300 pcs/reel)

... packing (option) - additions:

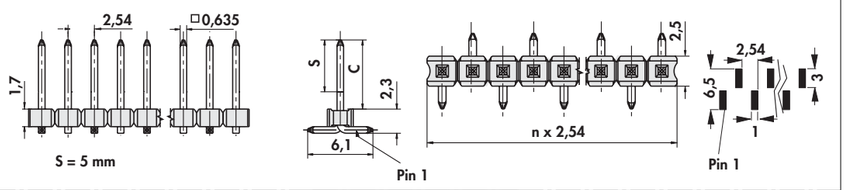
SL 12 SMD ... B TR: 2-13 contacts
SL 17 SMD ... B TR: 6-24 contacts

For further informations please see "for automatic assembly" following this series!

Female headers 2.54 press-fit → G 53
Female headers 2.00 SMD → G 64
Jumpers → G 77 - 78
Technical data → G 73 - 78
High-prec. fem. headers 2.54 sold. → G 31 - 34
Male headers 2.54 solder → G 8
Male headers 2.00 SMD → G 61 - 62
Male headers 2.54 solder → G 8

Male headers in SMD mounting

Low profile in SMD □ 0.635 mm



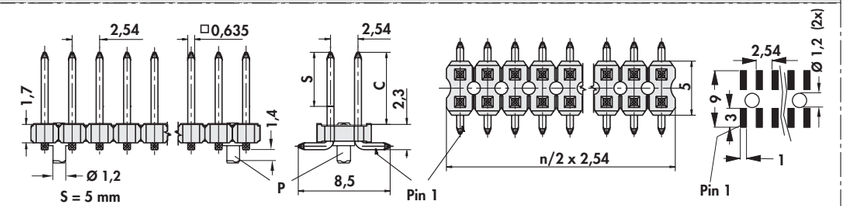
art. no.	dim. [mm] C	art. no.	dim. [mm] C
SL LP 5 SMD 038 ...	3.80	**SL LP 5 SMD 066 ...**	6.60
SL LP 5 SMD 051 ...	5.10		

please indicate:

... no. of contacts
one row 4-20

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (250 pcs/reel)



art. no.	dim. [mm] C	art. no.	dim. [mm] C
SL LP 6 SMD 038 ...	3.80	**SL LP 6 SMD 066 ...**	6.60
SL LP 6 SMD 051 ...	5.10		

please indicate:

... no. of contacts
two rows 4-40

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (250 pcs/reel)

... position (option)
PS = locating pin (2 pcs/bar bigger than 6 contacts)

... packing (option) - additions:

SL LP 5 SMD ...: ... SM; ... B SM; 4-20 contacts
SL LP 5 SMD ...: ... B TR, 4-12 contacts

SL LP 6 SMD ...: ... SM; ... B SM; 6-40 contacts
SL LP 6 SMD ...: ... B TR, 6-24 contacts

For further informations please see "for automatic assembly" following this series!

Female headers 1.27 solder → G 70
Female headers 2.00 SMD → G 64
Jumpers → G 77 - 78
Technical data → G 75 - 80

High-prec. fem. headers 1.27 solder → G 72
High-prec. male head. 1.27 solder → G 71
Male headers 2.00 solder → G 56 - 58

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2.54

Male headers in SMD mounting

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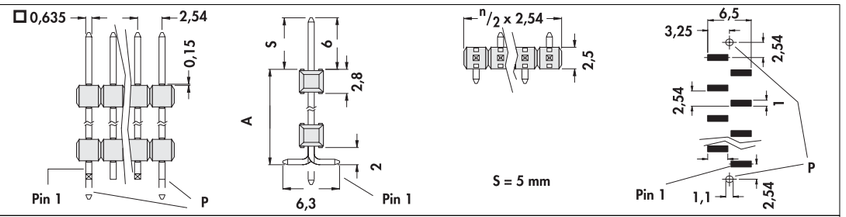
Male headers in SMD mounting

□ 0.635 mm – for interconnections of stacked PCBs

one row, 4-20 contacts



art. no.	dim. [mm] A
SL 15 SMD 107 ...	10.70
SL 15 SMD 182 ...	18.20
SL 15 SMD 207 ...	20.70

please indicate:

... no. of contacts
one row 4-20

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... position (option)
P = end pins straight for positioning

A B C D E F G H I K L M N

Male headers 2.00 SMD → G 61 - 62
High-prec. male headers 1.27 SMD → G 75
Male headers 2.54 solder → G 8
Technical data → G 75 - 80
Jumpers → G 77 - 78
High-prec. fem. headers 2.54 sold. → G 31 - 34
Female headers 2.00 SMD → G 64
Female headers 2.54 press-fit → G 53

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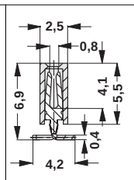
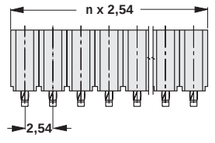
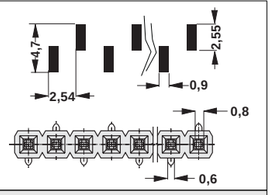
High-precision female headers in SMD mounting

for □ 0.635 mm and up to 0.85 mm ∅

art. no.		
BL LP 5 SMD ...		  

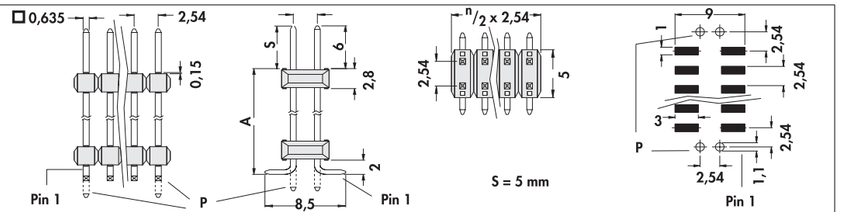
please indicate:

... no. of contacts
one row 4 - 20

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (250 pcs/reel)

Male headers in SMD mounting

two rows, 4-40 contacts



art. no.	dim. [mm] A
SL 16 SMD 107 ...	10.70
SL 16 SMD 157 ...	15.70
SL 16 SMD 182 ...	18.20
SL 16 SMD 207 ...	20.70
SL 16 SMD 247 ...	24.70

please indicate:

... no. of contacts
two rows 4-40

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... position (option)
P = end pins straight for positioning

Within the total length the insulator can be changed according to customer's request.

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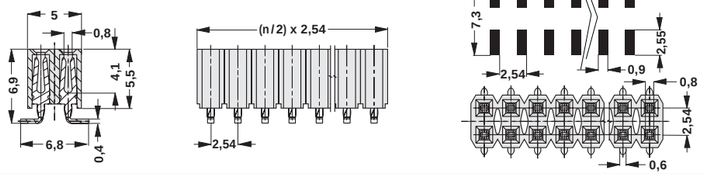
High-precision female headers in SMD mounting

art. no.		
BL LP 6 SMD ...		

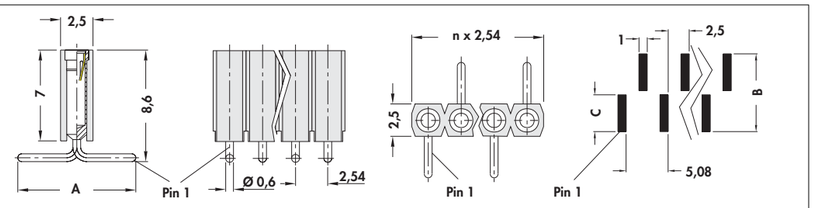
please indicate:

... no. of contacts
two rows 4-40

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (250 pcs/reel)

High-precision female headers in SMD mounting

for □ 0.635 mm and up to 0.85 mm Ø

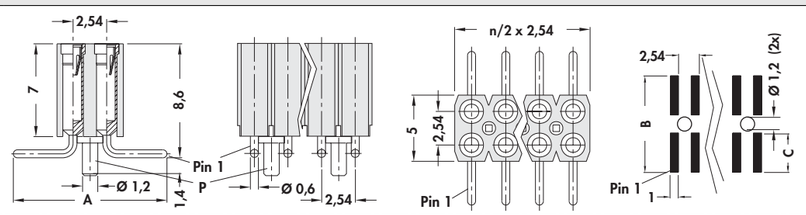


art. no.	dim. [mm] A	B	C
BL 15 SMD 043...	4.30	5.00	2.50
BL 15 SMD 089...	8.90	9.50	4.80

please indicate:

... no. of contacts
one row 4-20

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine



art. no.	dim. [mm] A	B	C
BL 16 SMD 067 ...	6.70	7.50	2.50
BL 16 SMD 113 ...	11.30	12.00	4.80

please indicate:

... no. of contacts
two rows 4-40

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (250 pcs/reel)

... position (option)
PS = locating pin (2 pcs/bar bigger than 6 contacts)

contact shell surface: tin-plated
contact spring: gold-plated

No capilliary action when soldering due to protected contact insert.
V-notches permit breaking! Therefore any required number of contacts is available.

... packing (option) - additions:
BL 16 SMD ... B TR: 6-24 contacts

For further informations please see "for automatic assembly" following this series!

Female headers 1.27 SMD → G 74
Female headers 2.00 SMD → G 64
Female headers 2.54 press-fit → G 53
Fem. head. 2.54 solder, put through → G 29

Technical data → G 75 - 80
Male headers 2.54 solder → G 8
Male headers 2.54 SMD → G 37 - 42

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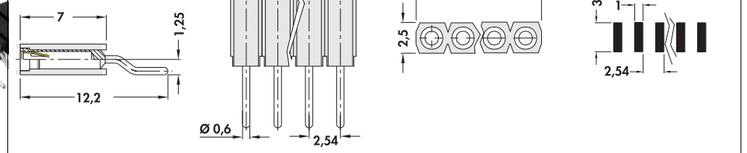
High-precision female headers in SMD mounting

for □ 0.635 mm and up to 0.85 mm Ø

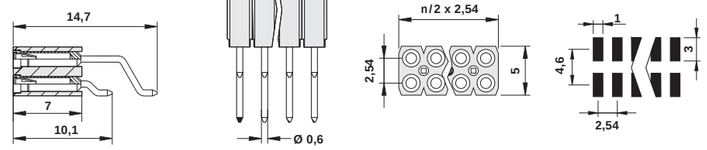
art. no.

BL 17 SMD ...



art. no.

BL 20 SMD ...



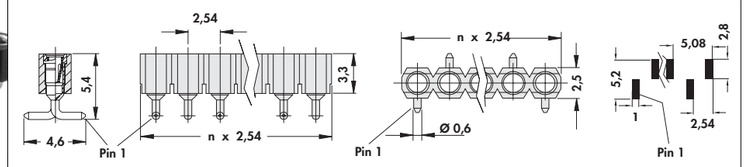
please indicate:

... no. of contacts
one row 2-20
two rows 4-40

... packing (option)
SM = bar magazine

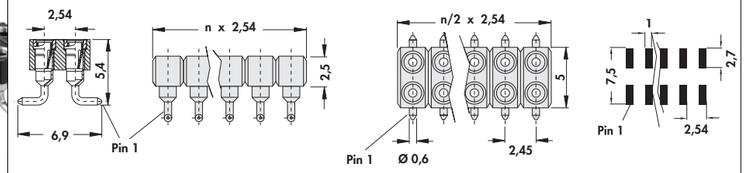
art. no.

MK 22 SMD ...



art. no.

MK 222 SMD ...



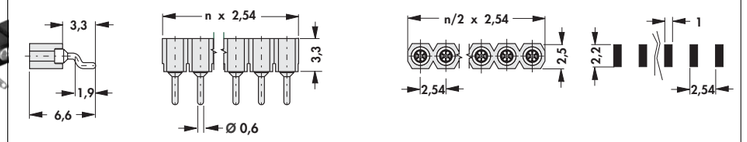
please indicate:

... no. of contacts
one row 4-20
two rows 4-40

... packing (option)
B SM = pick and place pad and bar magazine

art. no.

MK 24 SMD ...



please indicate:

... no. of contacts
one row 2-20

contact shell surface: tin-plated; **contact spring:** gold-plated
No capilliary action when soldering due to protected contact insert.

... packing (option) - additions:
BL 17 SMD ... SM: 5-20 contacts; BL 20 SMD ... SM: 10-40 contacts
For further informations please see "for automatic assembly" following this series!

Technical data → G 75 - 80
Male headers 2.54 solder → G 8
Male headers 2.54 SMD → G 37 - 42
Fem. head. 2.54 solder, put through → G 29
Female headers 1.27 SMD → G 74
Female headers 2.00 SMD → G 64
Female headers 2.54 press-fit → G 53

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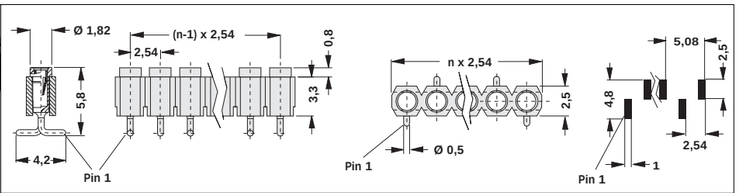
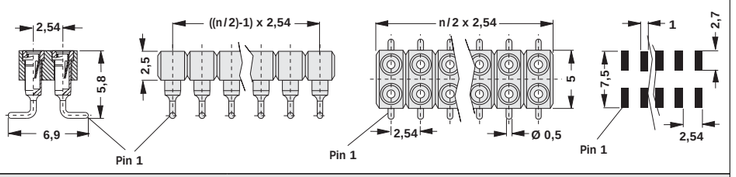
High-precision female headers in SMD mounting

for Ø 0.5 mm

one and two rows

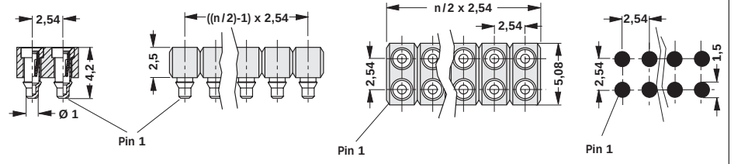
art. no.		
MK 23 SMD ...		
art. no.		
MK 223 SMD ...		

please indicate:

... no. of contacts
one row 4-20
two rows 4-40

... packing (option)
B SM =pick and place pad and bar magazine

Two row

art. no.		
MK 220 SMD ...		

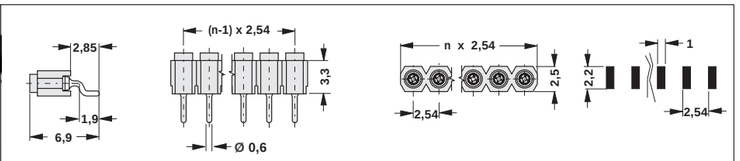
please indicate:

... no. of contacts
two rows 4-40

... packing (option)
B SM =pick and place pad and bar magazine
B TR =pick and place pad and tape and reel (4-12 contacts 800 pcs/reel, 4-12 contacts; 14-40 contacts 500 pcs/reel)

For further informations please see "for automatic assembly" following this series!

one row

art. no.		
MK 25 SMD ...		

please indicate:

... no. of contacts
one row 2-20

contact shell surface: tin-plated
contact spring: gold-plated

G 49

Fem. head. 2.54 solder, put through → G 29
Technical data → G 75 - 80
Female headers 1.27 SMD → G 74
Female headers 2.00 SMD → G 64
Female headers 2.54 press-fit → G 53
High-precision female headers → G 3 - 5
Female headers 2.54 solder → G 27

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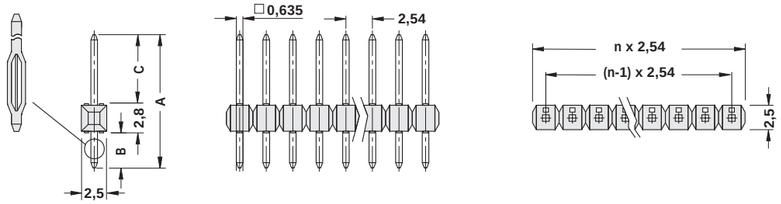
2.54

Connectors in press-fit mounting

Male connectors

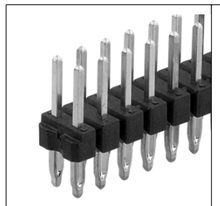
one row, 1-36 contacts, for PCB thickness ≥ 1.6 mm dimension B = 3.5 mm and ≥ 3.0 mm dimension B = 4.5 mm

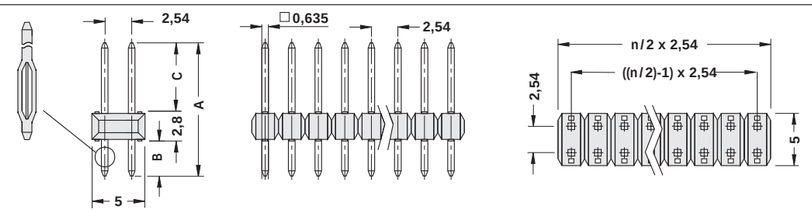


art. no.	dim. [mm] A	B	C
SLP 1 16 117 ...	11.70	3.50	5.40
SLP 1 16 129 ...	12.90	3.50	6.60
SLP 1 16 144 ...	14.40	3.50	8.10
SLP 1 16 195 ...	19.50	3.50	13.20
SLP 1 32 139 ...	13.90	4.50	6.60
SLP 1 32 164 ...	16.40	4.50	9.10

please indicate:
... no. of contacts one row 1-36
... surface G=gold-plated Z=tin-plated

two rows, 2-72 contacts, for PCB thickness ≥ 1.6 mm dimension B = 3.5 mm and ≥ 3.0 mm dimension B = 4.5 mm





art. no.	dim. [mm] A	B	C
SLP 2 16 117 ...	11.70	3.50	5.40
SLP 2 16 129 ...	12.90	3.50	6.60
SLP 2 16 144 ...	14.40	3.50	8.10
SLP 2 16 195 ...	19.50	3.50	13.20
SLP 2 32 139 ...	13.90	4.50	6.60
SLP 2 32 164 ...	16.40	4.50	9.10

please indicate:
... no. of contacts two rows 2-72
... surface G=gold-plated Z=tin-plated

contact material: Cu Sn 6

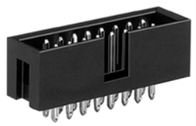
Press-fit mounting without soldering, resilient press-fit area, easy insertion into PCB. V-notches permit breaking!
Any required number of contacts available.

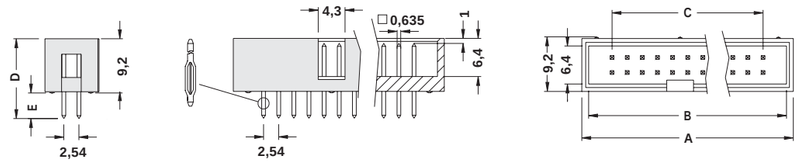
PCB layout please see BLP ...

Technical data → **G 73 - 78**
Jumpers → **G 77 - 78**
Female headers 2.54 press-fit → **G 53**
Programmable headers → **F 23**
Male headers 2.00 solder → **G 56 - 58**
Single contacts metal strip → **G 26**
Male headers 2.54 solder → **G 8**

Male header with shroud

suitable for boltable female header VFL, can be combined with many other female headers with grid spacing 2,54 mm (e. g.: PV, BL)





art. no.	no. of contacts	dim. [mm]				
		A	B	C	D	E (max.)
SLUP 31 10 ...	10	20.40	17.80	10.16	12.60	3.50
SLUP 31 16 ...	16	28.00	25.40	17.78	12.60	3.50
SLUP 31 20 ...	20	33.10	30.50	22.86	12.60	3.50

please indicate: **... surface**
G = gold-plated
Z = tin-plated

contact material: Cu Sn 6

Press-fit mounting without soldering, resilient press-fit area, easy insertion into PCB.

PCB layout please see BLP ...

A B C D E F G H I K L M N

IDC-connectors → **H 1 - 14**
Male headers 2.00 solder → **G 56 - 58**
Technical data → **G 73 - 78**
Connector-sleeves → **F 25 - 27**
Male headers 2.54 solder → **G 8**
Female headers 2.54 press-fit → **G 53**
Jumpers → **G 77 - 78**
Peel-off terminal strips → **G 25**

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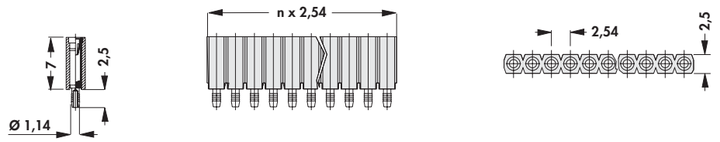
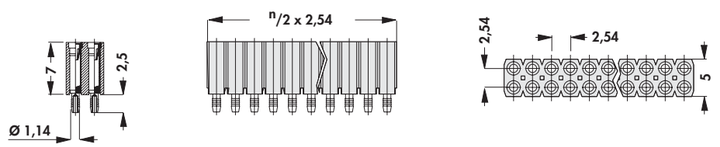
260°C

2.54

Connectors in press-fit mounting

High-precision female headers □ 0,635 mm and pins up to 0,85 mm Ø

Press-fit mounting without soldering, resilient press-fit area.

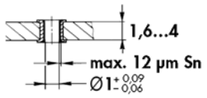
art. no.		
BLP 1 ...		
art. no.		
BLP 2 ...		

please indicate: **... no. of contacts**
one row 1-36
two rows 2-72

contact-insert: gold-plated
contact shell: tin-plated

V-notches permit breaking! Therefore any required numbers of contacts are available.

Hole diameter in PCB - PCB hole structure acc. to DIN EN 60352-5

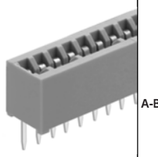
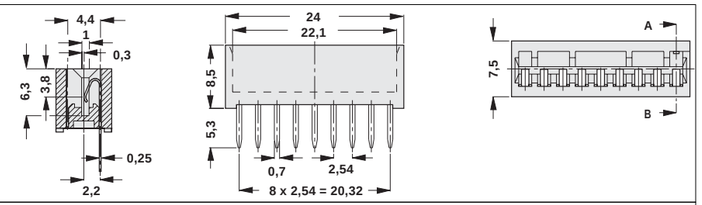
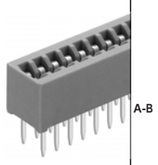
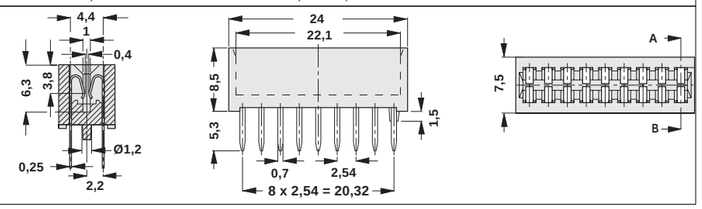


Jumpers → G 77 - 78
Male headers 2.54 press-fit → G 51
Female headers 1.27 solder → G 70
Female headers 2.00 solder → G 60
Female headers 2.54 solder → G 27
Technical data → G 75 - 80
Jump. links 2.00 & 2.54 solder → G 20

Direct female connector

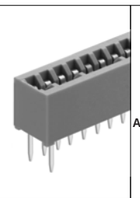
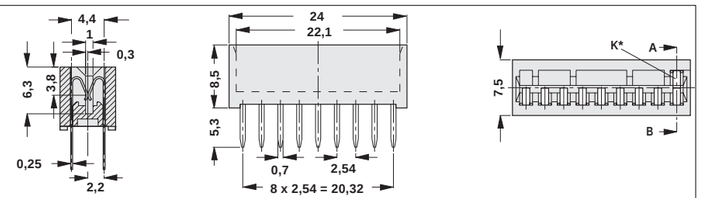
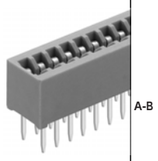
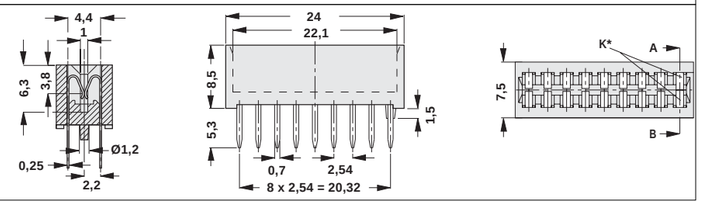
Without short circuit contact for PCB thickness: 0.7-0.9 mm

for removable connection of digital displays, coding switches, impulse counters

art. no.		
DF 1 OK 9 Z		
art. no.		
DF 2 OK 9 Z		

With short circuit contact for PCB thickness: 0.7-0.9 mm

for removable connection of digital displays, coding switches, impulse counters

art. no.		
DF 1 MK 9 Z		
art. no.		
DF 2 MK 9 Z		

K* = arcing contact

Female headers 2.54 solder → **G 27**
IDC-connectors → **G 19**
Male con./fem. con. 6.00 solder → **G 2**
Technical data → **G 75 - 80**

Male headers 2.54 SMD → **G 37 - 44**
Male headers 2.54 solder → **G 8**

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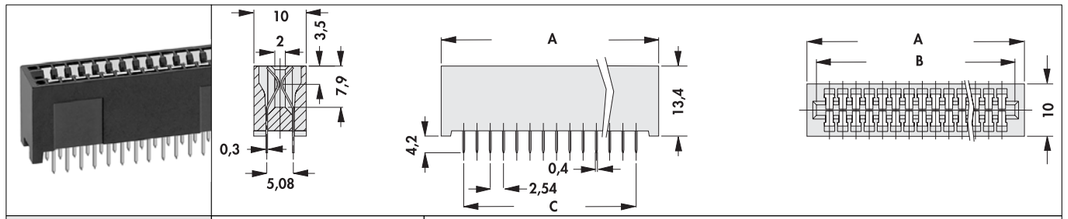
2.54

Direct female connector

for PCB thickness: 1.4-1.8 mm



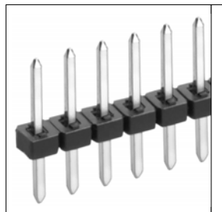
art. no.	no. of contacts	dim. [mm]		
		A	B	C
DF OB 06	12	21.33	17.70	12.70
DF OB 07	14	23.87	20.24	15.24
DF OB 10	20	31.49	27.86	22.86
DF OB 17	34	49.27	45.64	40.64
DF OB 18	36	51.81	48.18	43.18

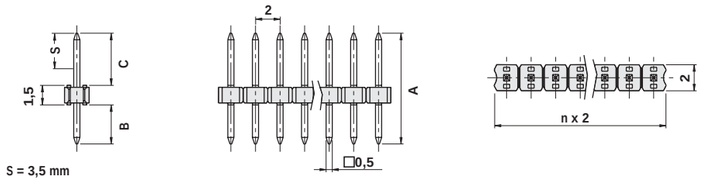
contact surface finish: tin-plated

Male headers 2.54 solder → **G 8**
Screw fastening → **I 28**
Male con./fem. con. 6.00 solder → **G 2**
Technical data → **G 75 - 80**
Special male & female headers → **G 19**
Female headers 2.54 solder → **G 27**

Male headers soldering technique

□ 0.5 mm, straight



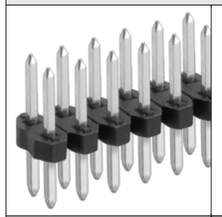


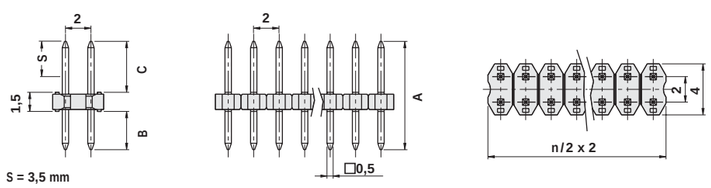
art. no.	dim. [mm] A	B	C
SLY 1 081 ...	8.10	3.00	3.60
SLY 1 085 ...	8.50	3.00	4.00
SLY 1 098 ...	9.80	3.00	5.30
SLY 1 104 ...	10.40	3.00	5.90
SLY 1 139 ... G	13.90	3.00	9.40
SLY 1 139 ... Z	13.90	3.00	9.40

please indicate:

... no. of contacts
one row 1 - 50

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated





art. no.	dim. [mm] A	B	C
SLY 2 081 ...	8.10	3.00	3.60
SLY 2 085 ...	8.50	3.00	4.00
SLY 2 098 ...	9.80	3.00	5.30
SLY 2 104 ...	10.40	3.00	5.90
SLY 2 139 ... G	13.90	3.00	9.40
SLY 2 139 ... Z	13.90	3.00	9.40

please indicate:

... no. of contacts
two rows 4 - 100

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

Female headers 2.00 solder → **G 60**
Female headers 2.00 SMD → **G 64**
Jumpers → **G 77 - 78**
Technical data → **G 73 - 78**

Male headers .05" solder → **G 67**
Male headers 2.00 solder → **G 56 - 58**
Male headers 2.54 solder → **G 8**

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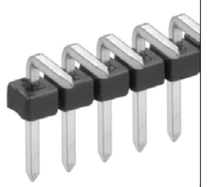
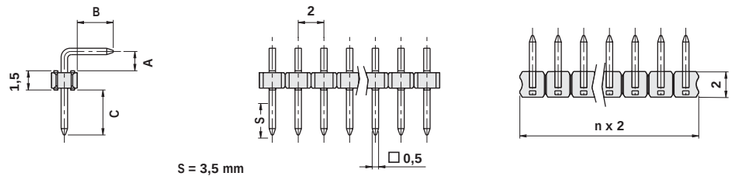
260°C

2.00

Male headers soldering technique

☐ 0.5 mm, angled



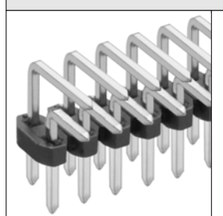


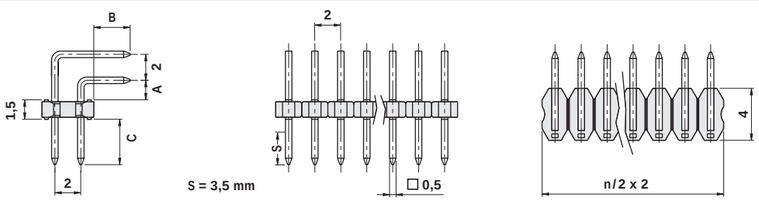
art. no.	dim. [mm] A	B	C
SLY 3 035 ...	1.50	2.80	3.50
SLY 3 041 ...	1.50	2.80	4.10
SLY 3 082 ...	1.50	2.80	8.20

please indicate:

... no. of contacts
one row 1 - 50

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated





art. no.	dim. [mm] A	B	C
SLY 4 035...	1.50	2.80	3.50
SLY 4 041...	1.50	2.80	4.10
SLY 4 082...	1.50	2.80	8.20

please indicate:

... no. of contacts
two rows 4 - 100

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

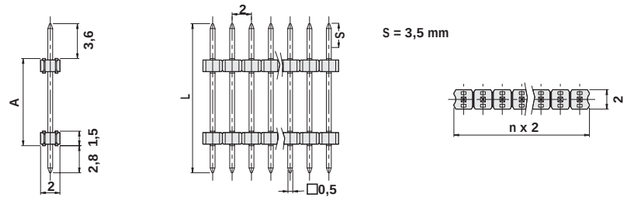
Therefore any required number of contacts is available.

Technical data → **G 73 - 78**
Female headers 2.00 SMD → **G 64**
Jumpers → **G 77 - 78**
Male headers .05“ solder → **G 67**
Male headers 2.00 solder → **G 56 - 58**
Male headers 2.54 solder → **G 8**
Female headers 2.00 solder → **G 60**

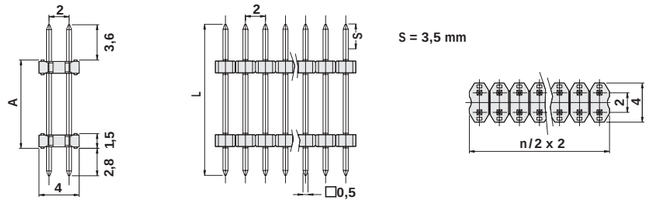
Male headers soldering technique

□ 0.5 mm

suitable for female headers BLY



art. no.	dim. [mm] A	dim. [mm] L	art. no.	dim. [mm] A	dim. [mm] L
SLY 5 040 ...	4.00	10.40	**SLY 5 101 ...**	10.10	16.50
SLY 5 075 ...	7.50	13.90	**SLY 5 122 ...**	12.20	18.60
SLY 5 081 ...	8.10	14.50			



art. no.	dim. [mm] A	dim. [mm] L	art. no.	dim. [mm] A	dim. [mm] L
SLY 6 040 ...	4.00	10.40	**SLY 6 101 ...**	10.10	16.50
SLY 6 075 ...	7.50	13.90	**SLY 6 122 ...**	12.20	18.60
SLY 6 081 ...	8.10	14.50			

please indicate:

... no. of contacts
one row 1 - 50
two rows 2 - 100

... surface
S = selective gold-plated
G = gold-plated
Z = tin-plated

Are used for interconnections of stacked PCBs.
The position of the insulator can be changed within the total length of the pin.

Therefore any required number of contacts is available.

Female headers 2.00 SMD → G 64
Female headers 2.00 solder → G 60
Technical data → G 73 - 78
Jumpers → G 77 - 78

Male headers 2.54 solder → G 8
Male headers .05“ solder → G 67
Male headers 2.00 solder → G 56 - 58

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Male headers soldering technique

2.00

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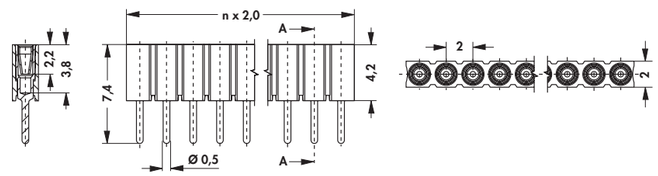
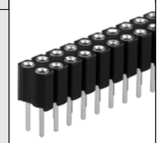
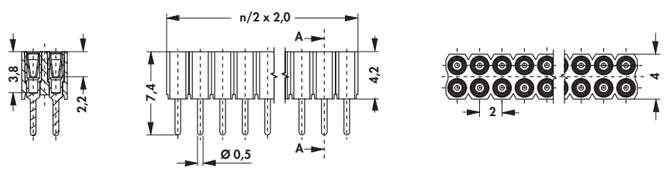
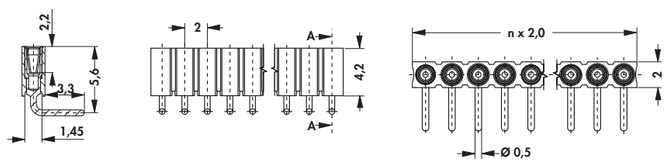
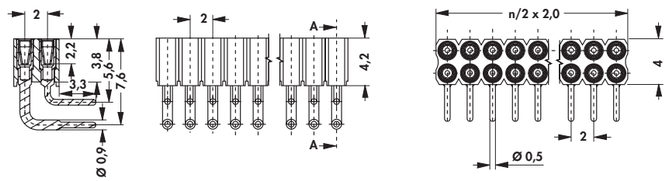
High-precision female headers soldering technique

for □ 0.5 mm and up to 0.56 mm Ø

art. no.		
BLY 1 ...		
art. no.		
BLY 2 ...		
art. no.		
BLY 3 ...		
art. no.		
BLY 4 ...		

please indicate:	**... no. of contacts** **one row 1-50** **two rows 2-100**

contact shell surface: tin-plated
contact spring: gold-plated

No capilliary action when soldering due to protected contact insert.

V-notches permit breaking! Therefore any required number of contacts is available.

Male headers 2.00 SMD → G 61 - 62
Male headers 2.00 solder → G 56 - 58
Female header grid 2.00 → H 10
Female headers 2.00 SMD → G 64

Jumpers → G 77 - 78
Design spec. for male headers → G 19
Technical data → G 75 - 80

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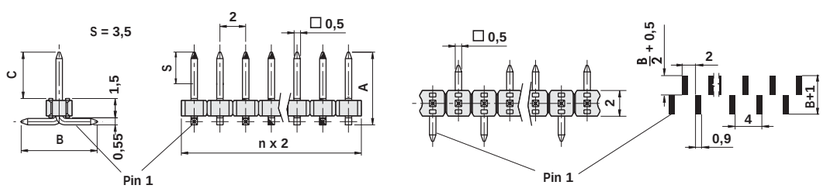
260°C

2.00

Male headers in SMD mounting

□ 0.5 mm



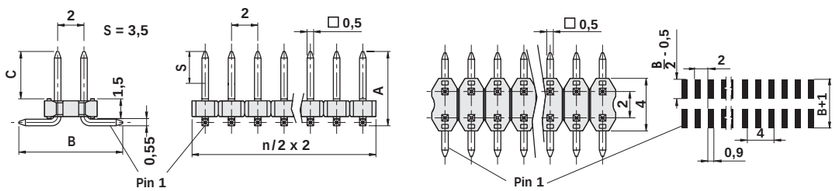
art. no.	dim. [mm]			
	A	B	C	S
SLY 7 SMD 036 ...	5.60	6.30	3.60	3.00
SLY 7 SMD 045 ...	6.50	4.60	4.50	3.50
SLY 7 SMD 062 ...	8.20	4.60	6.20	3.50

please indicate:

... no. of contacts
one row 4-20

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine



art. no.	dim. [mm]			
	A	B	C	S
SLY 8 SMD 036 ...	5.60	8.50	3.60	3.00
SLY 8 SMD 045 ...	6.50	6.50	4.50	3.50
SLY 8 SMD 062 ...	8.20	6.50	6.20	3.50

please indicate:

... no. of contacts
two rows 4-40

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (650 pcs/reel)

... packing (option) - additions:

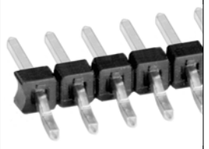
SLY 8 SMD ... SM; ... B SM: 6-40 contacts
SLY 8 SMD 036/045 B TR: 6-30 contacts

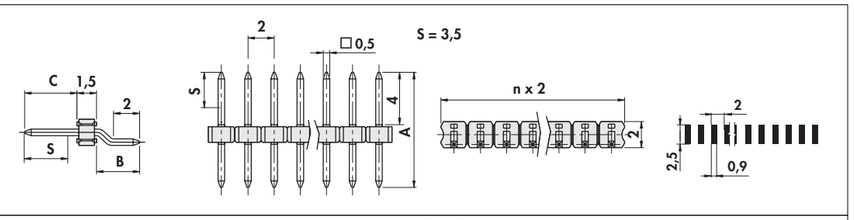
For further informations please see "for automatic assembly" following this series!

Male headers 2.00 solder → G 56 - 58
High-prec.male head.in SMD mount. → G 35
Special male & female headers → G 19
Female header grid 2.00 → H 10
Female headers 2.00 solder → G 60
Female headers 2.00 SMD → G 64
Technical data → G 75 - 80
Jumpers → G 77 - 78

Male headers in SMD mounting

□ 0.5 mm



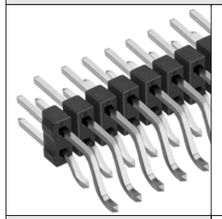


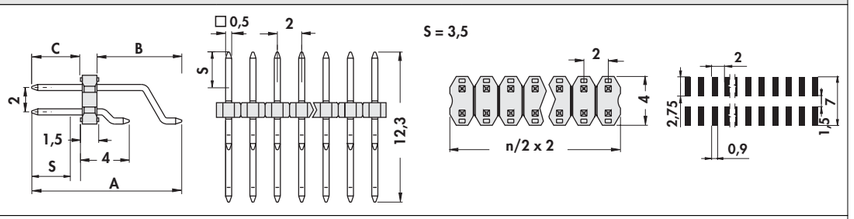
art. no.	dim. [mm] A	B	C	S
SLY 9 SMD 040 ...	8.80	3.30	4.00	3.50
SLY 9 SMD 055 ...	10.30	3.30	5.50	3.50

please indicate:
... no. of contacts
one row 2-20

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... packing (option)
B SM = pick and place pad and bar magazine





art. no.	dim. [mm] A	B	C	S
SLY 10 SMD 040 ...	12.30	6.80	4.00	3.50

please indicate:
... no. of contacts
two rows 4-40

... surface
S = sel. gold-plated
G = gold-plated
Z = tin-plated

... packing (option)
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (700 pcs/reel)

... packing (option) - additions:
SLY 10 SMD 040 ...: ... B TR, 4-16 contacts
For further informations please see "for automatic assembly" following this series!

Jumpers → G 77 - 78
Female header grid 2.00 → H 10
Female headers 2.00 solder → G 60
Female headers 2.00 SMD → G 64
Special male & female headers → G 19
High-prec.male head.in SMD mount. → G 35
Male headers 2.00 solder → G 56 - 58
Technical data → G 75 - 80

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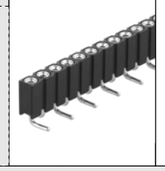
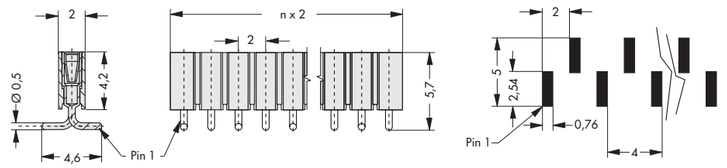
High-precision female headers in SMD mounting

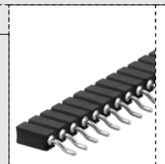
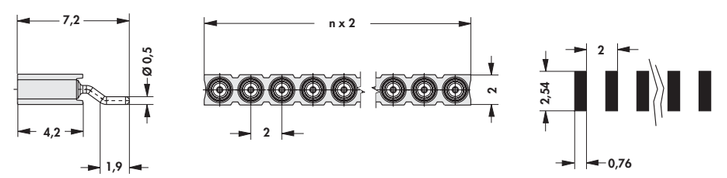
for □ 0.5 mm and up to 0.56 mm Ø

art. no.		
BLY 5 SMD ...		

please indicate:

... no. of contacts
one row 4-20

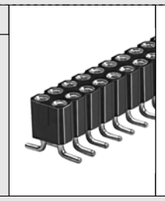
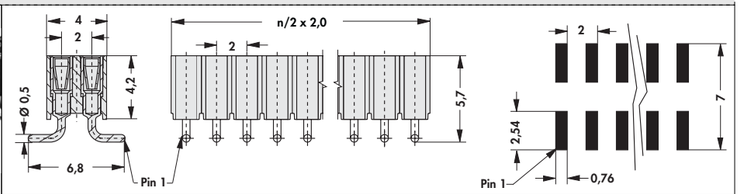
... packing (option)
B SM = pick and place pad and bar magazine

art. no.		
BLY 6 SMD ...		

please indicate:

... no. of contacts
one row 2-20

... packing (option)
TR = tape and reel (2.400 pcs/reel)

art. no.		
BLY 8 SMD ...		

please indicate:

... no. of contacts
two rows 4-40

... packing (option)
B SM = pick and place pad and bar magazine
B TR = pick and place pad and tape and reel (650 pcs/reel)

contact shell surface: tin-plated
contact spring: gold-plated

No capilliary action when soldering due to protected contact insert.
V-notches permit breaking! Therefore any required number of contacts is available.

... packing (option) - additions:

BLY 6 SMD ... TR: 2-10 contacts
BLY 8 SMD ... B TR: 6-30 contacts

For further informations please see "for automatic assembly" following this series!

Female header grid 2.00 → **H 10**
Technical data → **G 75 - 80**
Female headers 2.00 solder → **G 60**
Female headers 2.54 SMD → **G 46 - 49**
Male headers 2.00 SMD → **G 61 - 62**
Female headers 2.00 SMD → **G 64**
Male headers 2.00 solder → **G 56 - 58**

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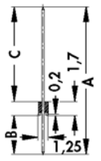
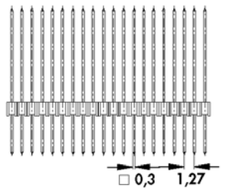
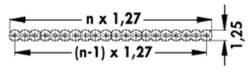
Male headers soldering technique

Straight, narrow insulator □ 0.3 mm

suitable for female header BLM, one row 1-20 contacts







art. no.	dim. [mm]		
	A	B	C
SLM N 1 063 ...	11.10	3.10	6.30
SLM N 1 092 ...	14.00	3.10	9.20
SLM N 1 117 ...	16.50	3.10	11.70
SLM N 11 063 ...	12.80	4.80	6.30
SLM N 11 117 ...	18.20	4.80	11.70

please indicate: **... no. of contacts one row 1-20** **... surface G=gold-plated Z=tin-plated**

Female headers 1.27 SMD → G 74
Jumpers → G 77 - 78
Special male & female headers → G 19
Technical data → G 75 - 80

High-prec. fem. headers 1.27 solder → G 72
High-prec.female headers SMD → G 76
High-prec.male head.in SMD mount. → G 35

fischer elektronik

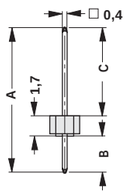
260°C

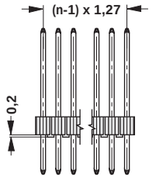
1.27

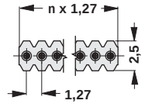
Male headers soldering technique

□ 0,4 mm

suitable for female header BLM, one row 1-36 contacts



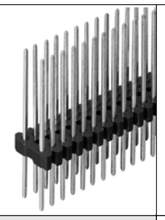


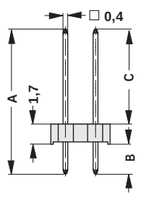


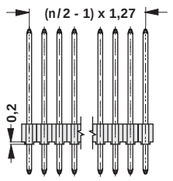
art. no.	dim. [mm] A	B	C
SLV W 1 055 ...	9.70	2.50	5.50
SLV W 1 080 ...	12.20	2.50	8.00
SLV W 1 105 ...	14.70	2.50	10.50
SLV W 1 130 ...	17.20	2.50	13.00

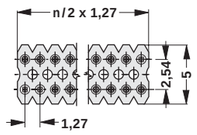
please indicate: **... no. of contacts one row 1-36** **... surface G=gold-plated Z=tin-plated**

suitable for female header BLM, two rows 4-72 contacts, grid spacing 1,27 x 2,54 mm









art. no.	dim. [mm] A	B	C
SLV W 2 055 ...	9.70	2.50	5.50
SLV W 2 080 ...	12.20	2.50	8.00
SLV W 2 105 ...	14.70	2.50	10.50
SLV W 2 130 ...	17.20	2.50	13.00

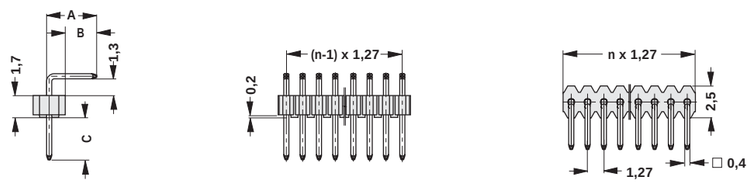
please indicate: **... no. of contacts two rows 4-72** **... surface G=gold-plated Z=tin-plated**

Special male & female headers → **G 19**
Male headers .05" solder → **G 74**
Female headers 1.27 solder → **G 70**
Technische Daten → **G 73 - 78**
Jumpers → **G 77 - 78**
High-prec. fem. headers 1.27 solder → **G 72**
High-prec.female headers SMD → **G 76**
High-prec. male head. 1.27 solder → **G 71**

Male headers soldering technique

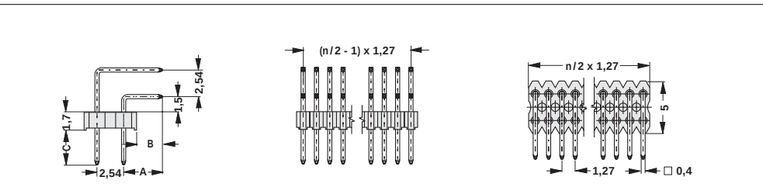
□ 0.4 mm, 90° angled

one row 1-36 contacts



art. no.	dim. [mm] A	B	C
SLV W 1 KA 030 ...	3.90	2.50	3.00
SLV W 1 KA 055 ...	3.90	2.50	5.50
SLV W 1 KA 080 ...	3.90	2.50	8.00
SLV W 1 KA 105 ...	3.90	2.50	10.50

please indicate: **... no. of contacts one row 1-36** **... surface G=gold-plated Z=tin-plated**



art. no.	no. of contacts	VPE	dim. [mm] A	B	C	art. no.	no. of contacts	VPE	dim. [mm] A	B	C
SLVW2 KA 030 10...	10	78	3.70	2.50	3.00	**SLVW2 KA 054 10...**	10	78	3.70	2.50	5.40
SLVW2 KA 030 14...	14	55	3.70	2.50	3.00	**SLVW2 KA 054 14...**	14	55	3.70	2.50	5.40
SLVW2 KA 030 16...	16	50	3.70	2.50	3.00	**SLVW2 KA 054 16...**	16	50	3.70	2.50	5.40
SLVW2 KA 030 20...	20	40	3.70	2.50	3.00	**SLVW2 KA 054 20...**	20	40	3.70	2.50	5.40
SLVW2 KA 030 26...	26	31	3.70	2.50	3.00	**SLVW2 KA 054 26...**	26	31	3.70	2.50	5.40
SLVW2 KA 030 30...	30	27	3.70	2.50	3.00	**SLVW2 KA 054 30...**	30	27	3.70	2.50	5.40
SLVW2 KA 030 34...	34	24	3.70	2.50	3.00	**SLVW2 KA 054 34...**	34	24	3.70	2.50	5.40
SLVW2 KA 030 40...	40	20	3.70	2.50	3.00	**SLVW2 KA 054 40...**	40	20	3.70	2.50	5.40
SLVW2 KA 030 50...	50	16	3.70	2.50	3.00	**SLVW2 KA 054 50...**	50	16	3.70	2.50	5.40
SLVW2 KA 030 72...	72	11	3.70	2.50	3.00	**SLVW2 KA 054 72...**	72	11	3.70	2.50	5.40

please indicate: **... surface G=gold-plated Z=tin-plated**

SLV W 2 KA ...: packing bar magazine

VPE = packing unit (pieces/tube);

preferred number of contacts, different ones between 6 and 72 can be made upon request

Female headers 1.27 SMD → G 74
High-prec. fem. headers 1.27 solder → G 72
High-prec.female headers SMD → G 76
Single contacts metal strip → G 26
High-prec.male head.in SMD mount. → G 35
Jumpers → G 77 - 78
Jump. links 2.00 & 2.54 solder → G 20

fischer elektronik

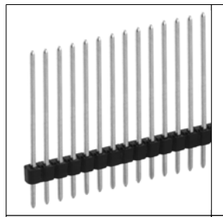
260°C

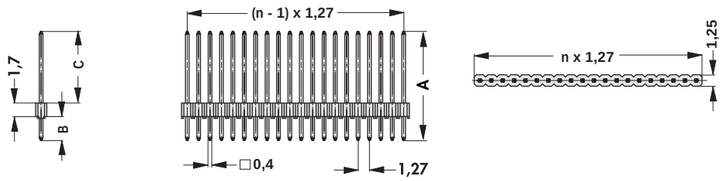
1.27

Male headers soldering technique

Straight, narrow insulator □ 0.4 mm

suitable for female header BLM, one row 1-20 contacts





art. no.	dim. [mm] A	B	C
SLV N 1 055 ...	9.70	2.50	5.50
SLV N 1 080 ...	12.20	2.50	8.00
SLV N 1 105 ...	14.70	2.50	10.50
SLV N 1 130 ...	17.20	2.50	13.00
SLV N 11 055 ...	12.20	5.00	5.50
SLV N 11 080 ...	14.70	5.00	8.00
SLV N 11 105 ...	17.20	5.00	10.50

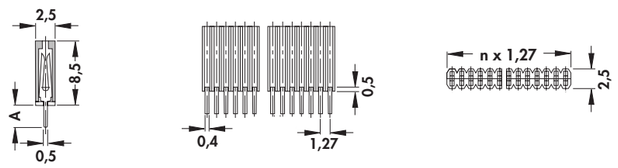
please indicate: **... no. of contacts one row 1-20** **... surface G=gold-plated Z=tin-plated**

Technical data → **G 75 - 80**

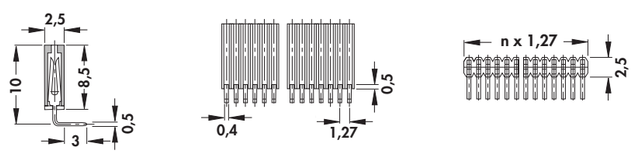
Special male & female headers → **G 19**
Technical data → **G 75 - 80**

Female headers soldering technique

suitable for male header SLM and SLV, one row 1-36 contacts



art. no.	dim. [mm] A
BLM KG 1 ...	3.00
BLM LG 1 ...	5.10



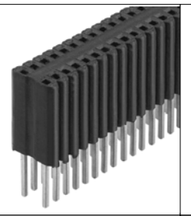
art. no.
BLM LA 1 ...

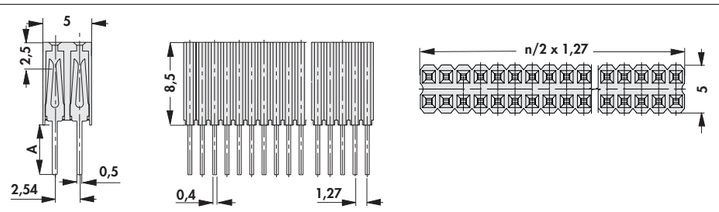
please indicate:

... no. of contacts
one row 1-36

... surface
G = gold-plated
Z = tin-plated

suitable for male header SLV, two rows 4-72 contacts - grid spacing 1.27 x 2.54 mm





art. no.	dim. [mm] A
BLM KG 2 ...	3.00
BLM LG 2 ...	5.10

please indicate:

... no. of contacts
two rows 4-72

... surface
G = gold-plated
Z = tin-plated

Technical data → **G 75 - 80**
Female headers 1.27 SMD → **G 74**
Special male & female headers → **G 19**
Peel-off terminal strips → **G 25**

High-prec. male head. 1.27 solder → **G 71**
High-prec. male headers 1.27 SMD → **G 75**
Male headers .05" solder → **G 67**

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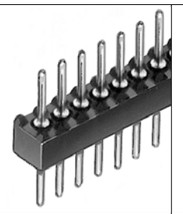
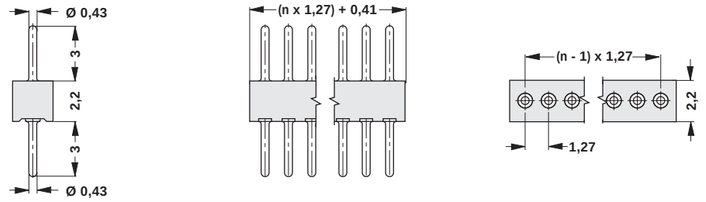
1.27

High-precision male headers soldering technique

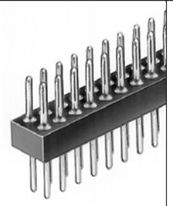
Ø 0.43 mm

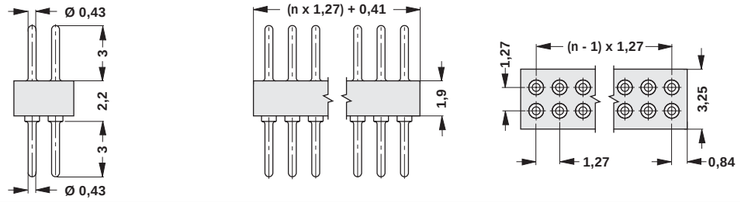
turned precision contacts, less space required on PCB



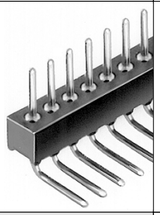


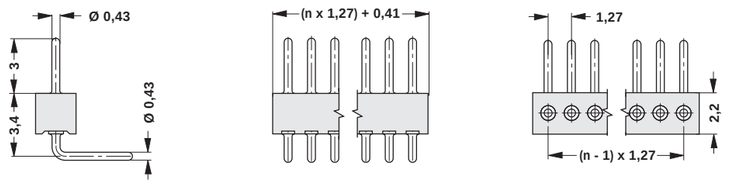
art. no.	no. of contacts
SLR 1 025 ...	25
SLR 1 050 ...	50



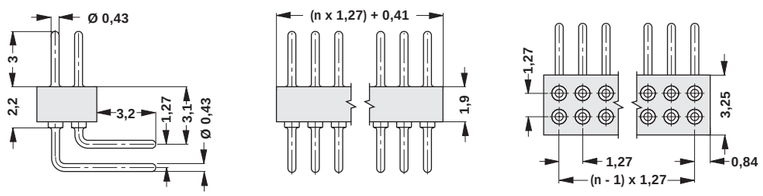


art. no.	no. of contacts
SLR 2 050 ...	50
SLR 2 100 ...	100





art. no.	no. of contacts
SLR 3 025 ...	25
SLR 3 050 ...	50



art. no.	no. of contacts
SLR 4 050 ...	50
SLR 4 100 ...	100

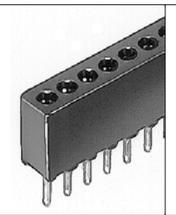
please indicate: **... surface**
G = gold-plated
Z = tin-plated

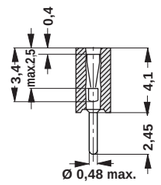
Other number of contacts on request!

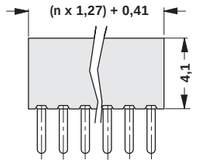
Jumpers → G 77 - 78
Male headers .05“ solder → G 67
Special male & female headers → G 19
Technical data → G 73 - 78
High-prec. fem. headers 1.27 solder → G 72
High-prec.female headers SMD → G 76
Single contacts metal strip → G 26

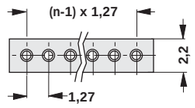
High-precision female headers soldering technique

for Ø 0.35–0.45 mm

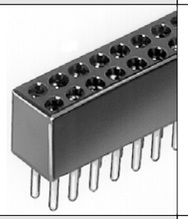


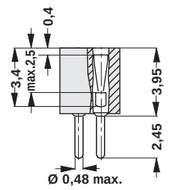


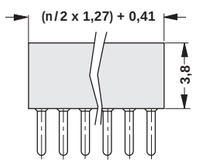


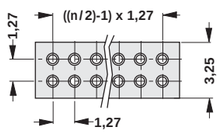


art. no.	no. of contacts
BLR 1 025 Z	25
BLR 1 050 Z	50

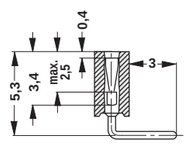


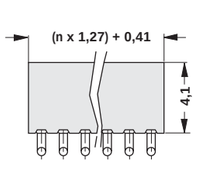


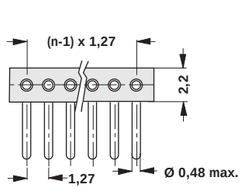




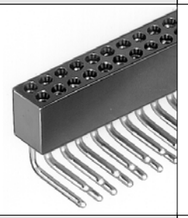
art. no.	no. of contacts
BLR 2 050 Z	50
BLR 2 100 Z	100

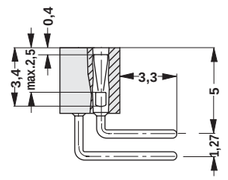


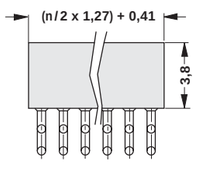


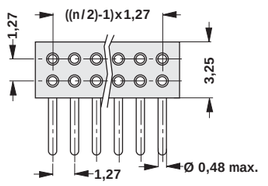


art. no.	no. of contacts
BLR 3 025 Z	25
BLR 3 050 Z	50









art. no.	no. of contacts
BLR 4 050 Z	50
BLR 4 100 Z	100

contact shell surface: tin-plated
contact spring: gold-plated

No capilliary action when soldering due to protected contact insert.

Other number of contacts on request!

Special male & female headers → **G 19**
Female headers 1.27 solder → **G 70**
High-prec. male headers 1.27 SMD → **G 75**
Technical data → **G 75 - 80**

Special male & female headers → **G 19**
High-prec.female headers SMD → **G 76**
High-prec. male head. 1.27 solder → **G 71**

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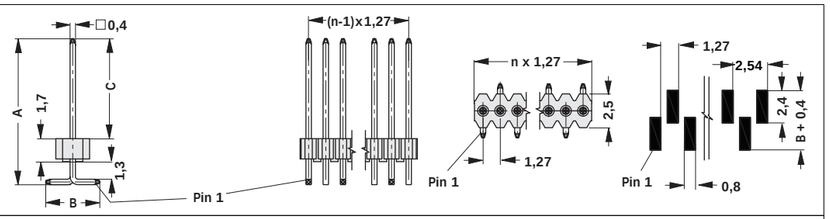
260°C

1.27

Male headers in SMD mounting

□ 0.4 mm

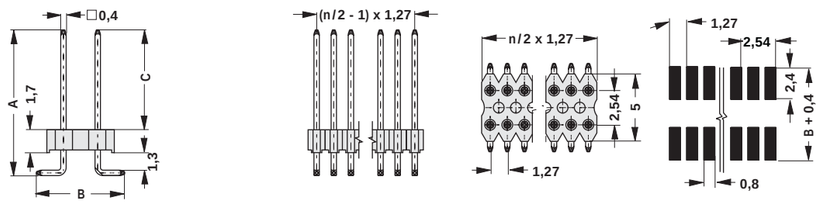
suitable for female header BLM, one row 4-20 contacts



art. no.	dim. [mm] A	B	C
SLV W 1 SMD 048...	8.20	4.00	4.80
SLV W 1 SMD 073...	10.70	4.00	7.30

please indicate: **... no. of contacts one row 4-20** **... surface G=gold-plated Z=tin-plated**

suitable for female header BLM, two rows 4-40 contacts, grid spacing 1,27 x 2,54 mm



art. no.	dim. [mm] A	B	C
SLV W 2 SMD 048...	8.20	6.60	4.80
SLV W 2 SMD 073...	10.70	6.60	7.30

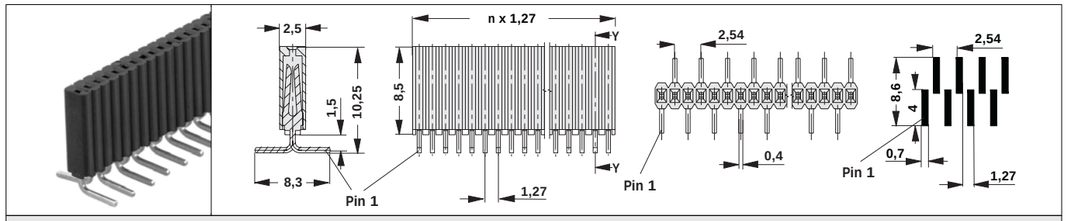
please indicate: **... no. of contacts two rows 4-40** **... surface G=gold-plated Z=tin-plated**

Female headers 1.27 solder → G 70
Jumpers → G 77 - 78
High-prec. fem. headers 1.27 solder → G 72
Technical data → G 75 - 80
High-prec.female headers SMD → G 76
High-prec.male head.in SMD mount. → G 35

Female headers in SMD mounting

Wide insulator with □ 0.3 mm and □ 0.4 mm

suitable for male header SLM and SLV, one row 4-20 contacts

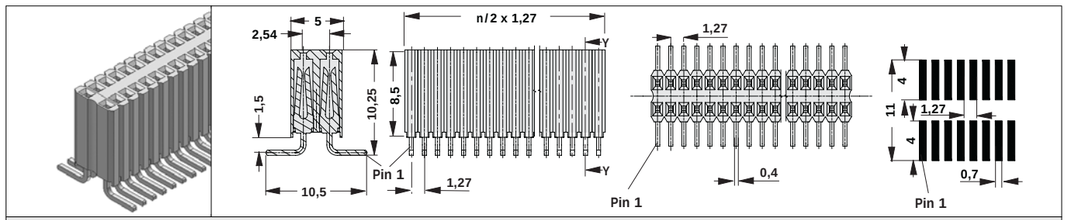


art. no.
BLM 1 SMD ...

please indicate:	... no. of contacts	... surface
	one row 4-20	G = gold-plated Z = tin-plated

Grid spacing 1.27 x 2.54 mm

suitable for male header SLV, two rows 4-40 contacts



art. no.
BLM 2 SMD ...

please indicate:	... no. of contacts	... surface
	two rows 4-40	G = gold-plated Z = tin-plated

Male headers .05“ solder → G 67
High-prec. fem. headers 1.27 solder → G 72
High-prec.female headers SMD → G 76
Technical data → G 73 - 78

High-prec. male head. 1.27 solder → G 71
High-prec. male headers 1.27 SMD → G 75
Single contacts metal strip → G 26

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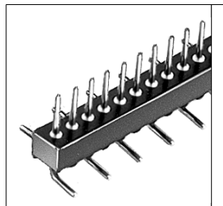
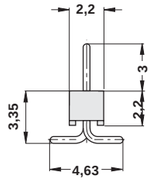
1.27

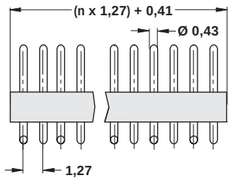
High-precision male headers in SMD mounting

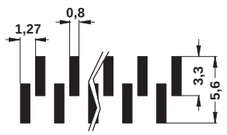
Turned precision contacts

less space required on PCB



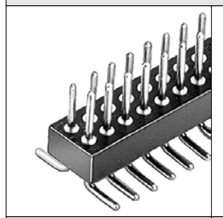


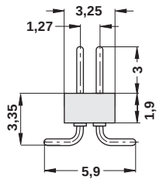


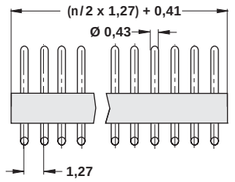


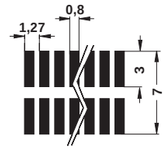
art. no.	no. of contacts
SLR 5 SMD ...	50

please indicate: **... surface**
G = gold-plated
Z = tin-plated



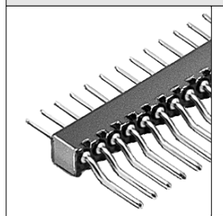


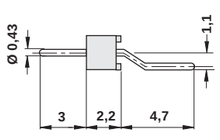


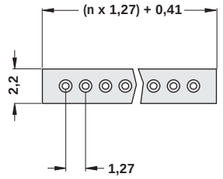


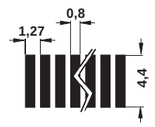
art. no.	no. of contacts
SLR 6 SMD ...	100

please indicate: **... surface**
G = gold-plated
Z = tin-plated









art. no.	no. of contacts
SLR 7 SMD ...	50

please indicate: **... surface**
G = gold-plated
Z = tin-plated

Other number of contacts on request!

G 75

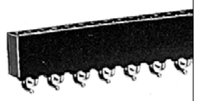
Male headers .05“ solder → **G 67**
Peel-off terminal strips → **G 25**
High-prec. male head. 1.27 solder → **G 71**
Technical data → **G 73 - 78**

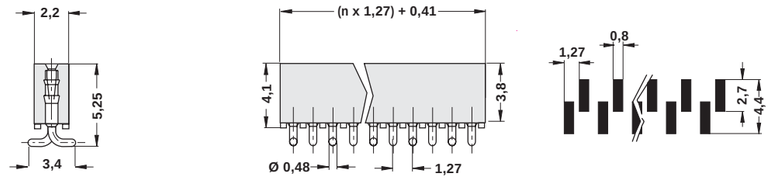
High-prec.female headers SMD → **G 76**
High-prec. fem. headers 1.27 solder → **G 72**
Female headers 1.27 SMD → **G 74**
Female headers 1.27 solder → **G 70**

High-precision female headers in SMD mounting

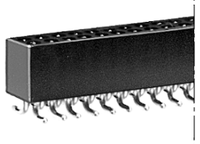
Turned precision contacts for Ø 0.35-0.45 mm

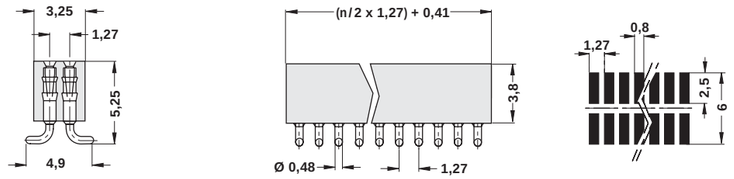
less space required on PCB



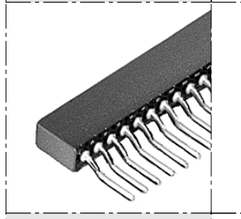


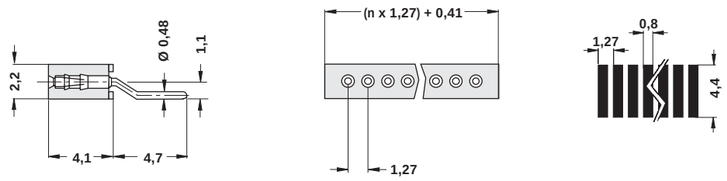
art. no.	no. of contacts
BLR 5 SMD	50





art. no.	no. of contacts
BLR 6 SMD	100





art. no.	no. of contacts
BLR 7 SMD	50

contact shell: tin-plated
contact insert: gold-plated

Closed precision rotary part with 3-finger contact prevents rising of flux agents.

Other number of contacts on request!

Female headers 1.27 solder → **G 70**
Female headers 1.27 SMD → **G 74**
Male headers 2.54 solder → **G 8**
Technical data → **G 73 - 78**

High-prec. male headers 1.27 SMD → **G 75**
High-prec.male head.in SMD mount. → **G 35**
Single contacts metal strip → **G 26**

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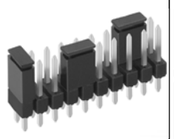
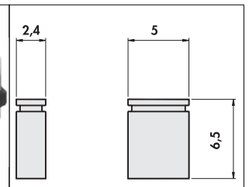
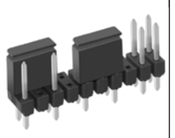
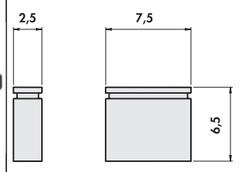
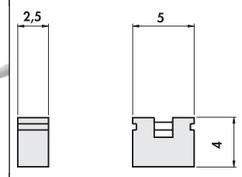
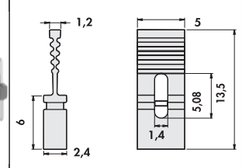
Jumpers

for 0.6-0.64 mm wire wrap pins and Ø 0.6-0.7 mm

art. no.	no. of contacts	surface	version	grid		
CAB 4 G ...	2	0.1 µm gold	closed	2.54		
CAB 4 Z ...	2	5.0 µm tin	closed	2.54		
CAB 5 05 G ...	2	0.5 µm gold	closed, hole for probe trip	5.08		
CAB 5 10 G ...	2	1.0 µm gold	closed, hole for probe trip	5.08		
CAB 5 Z ...	2	5.0 µm tin	closed, hole for probe trip	5.08		
CAB 6 05 G ...	2	0.5 µm gold	open, suitable for miniature test probes	2.54		
CAB 6 10 G ...	2	1.0 µm gold	open, suitable for miniature test probes	2.54		
CAB 6 Z ...	2	5.0 µm tin	open, suitable for miniature test probes	2.54		
CAB 9 G ...	2	0.1 µm gold	tag, open	2.54		

please indicate: **... colour**
B = blue
G = grey
R = red
S = black

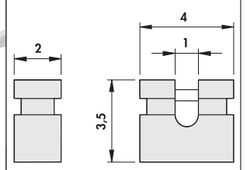
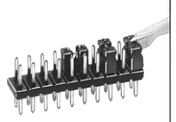
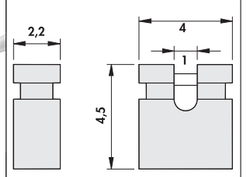
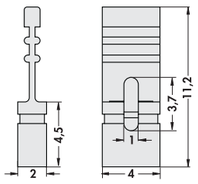
Colour "grey" except for CAB 9.

The flexible contacts are shorting two pins. The jumpers can be mounted behind and next to each other.

Male headers 2.54 SMD → G 37 - 42
Male headers 2.54 solder → G 8
Male headers 2.54 press-fit → G 51
Male headers 2.00 SMD → G 61 - 62
Male headers 2.00 solder → G 56 - 58
Technical data → G 73 - 78
Special male & female headers → G 19
Jump. links 2.00 & 2.54 solder → G 20

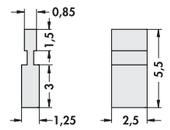
Jumpers

for square 0.5 mm and Ø 0.4-0.5 mm

art. no.	no. of contacts	surface	version	grid		
CAB 10 G S	2	0.1 µm gold	open, suitable for miniature test probes	2.00		
CAB 11 G S	2	0.1 µm gold	open, suitable for miniature test probes	2.00		
CAB 14 G S	2	<0,1 µm gold	tag, open, suitable for miniature test probes	2.00		

colour:
black

for square 0.3-0.4 mm and Ø 0.4-0.5 mm

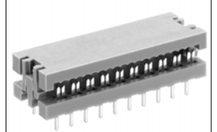
art. no.	no. of contacts	surface	version	grid		
CAB 15 G S	2	<0,1 µm gold	closed, tag	1.27		

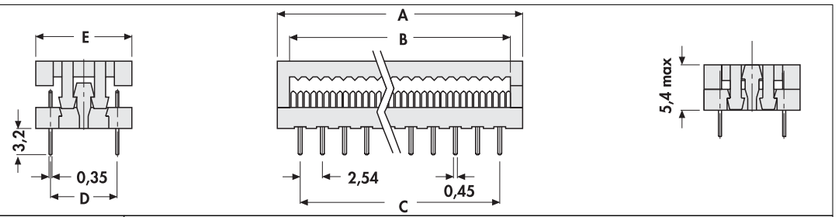
colour:
black

Technical data → **G 73 - 78**
High-prec. male head. 1.27 solder → **G 71**
High-prec. male headers 1.27 SMD → **G 75**
Male headers 2.54 press-fit → **G 51**
Single contacts metal strip → **G 26**
Male headers 2.00 solder → **G 56 - 58**
Male headers 2.00 SMD → **G 61 - 62**

Printed circuit connector

Design DIL





art. no.	no. of contacts	dim. [mm]				
		A	B	C	D	E (max.)
KK 04 Z	4	8.00	5.10	2.54	7.62	11.00
KK 06 Z	6	10.30	7.60	5.08	7.62	11.00
KK 08 Z	8	13.00	10.20	7.62	7.62	11.00
KK 10 Z	10	15.40	12.70	10.16	7.62	11.00
KK 12 Z	12	18.00	15.30	5.08	7.62	11.00
KK 14 Z	14	20.50	17.80	15.24	7.62	11.00
KK 16 Z	16	23.00	20.30	17.78	7.62	11.00
KK 18 Z	18	25.60	22.90	20.32	7.62	11.00
KK 20 Z	20	28.10	25.40	22.86	7.62	11.00
KK 24 Z	24	33.00	30.50	27.94	15.24	18.70
KK 28 Z	28	38.10	35.60	33.02	15.24	18.70
KK 40 Z	40	53.30	50.80	48.26	15.24	18.70

Use with ribbon cable:
round conductor flat strip:
AWG 28 = solid or stranded
AWG 30 = solid

conductor diameter:
AWG 28 ... 30 = 0.09 ... 0.05 mm²
insulation-Ø:
max. 1.1 mm

Sockets for DIL-IC → **F 4 - 10**
Application tools → **H 11**
Male headers 2.54 press-fit → **G 51**
PC connectors → **H 8**

Technical data → **H 12**
D-Sub connectors /flat cable → **I 11**
Single precision contacts → **F 2 - 3**

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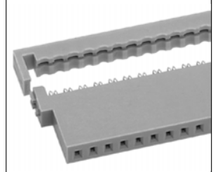
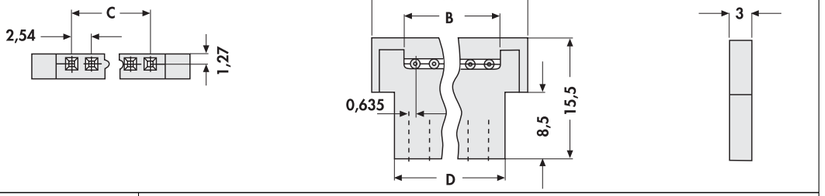
2.54

Female connector

One row





art. no.	no. of contacts	dim. [mm]			
		A	B	C	D
FV 03 ...	3	15.24	7.62	5.08	8.89
FV 04 ...	4	17.78	10.16	7.62	11.43
FV 05 ...	5	20.32	12.70	10.16	7.62
FV 06 ...	6	22.86	15.24	5.08	16.51
FV 07 ...	7	25.40	17.78	15.24	19.05
FV 08 ...	8	27.94	20.32	17.78	21.59
FV 10 ...	10	33.02	25.40	22.86	26.67
FV 12 ...	12	38.10	30.48	27.94	31.75
FV 13 ...	13	40.64	33.02	30.48	34.29
FV 14 ...	14	43.18	35.66	33.02	36.83
FV 16 ...	16	48.26	40.64	38.10	41.91
FV 17 ...	17	50.80	43.18	40.64	44.45
FV 18 ...	18	53.34	45.72	43.18	46.99
FV 20 ...	20	58.42	50.80	48.26	52.07
FV 24 ...	24	68.58	60.96	58.42	62.23
FV 25 ...	25	71.12	63.50	60.96	64.77
FV 36 ...	36	99.06	91.44	88.90	92.71

please indicate: **... surface**
G = gold-plated
Z = tin-plated

recommended plugs
☐ 0.635 mm
length 5 ... 8 mm

Use with ribbon cable:
round conductor flat strip:
AWG 28 = solid or stranded
AWG 30 = solid

conductor diameter:
AWG 28 ... 30 = 0.09 ... 0.05 mm²
insulation-Ø:
max. 1.1 mm

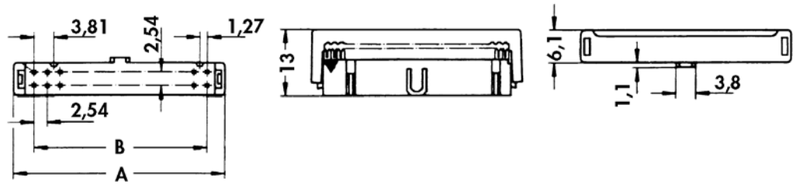
Male headers 2.54 solder → **G 8**
Application tools → **H 11**
D-Sub cut-out cover → **I 27**
Technical data → **H 12**
Female header two rows → **H 4**
Boltable female header → **H 5**
Shrouded male header → **H 6**
Female header grid 2.00 → **H 10**

Female connector

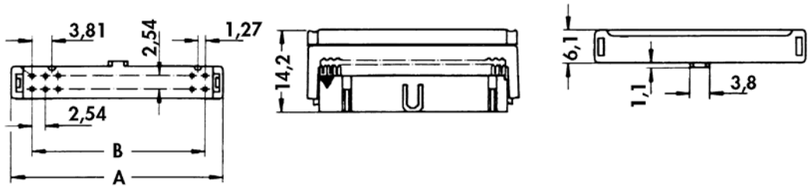
Two rows, with guiding nose

suitable for shrouded male header ASL ...

PV



PV + ZEPV



art. no.	no. of contacts	dim. [mm]		suitable strain relief
		A	B	
PV 06 G	6	12.20	5.08	**ZEPV 06**
PV 10 G	10	17.30	10.16	**ZEPV 10**
PV 14 G	14	22.40	15.24	**ZEPV 14**
PV 16 G	16	24.90	17.78	**ZEPV 16**
PV 20 G	20	30.00	22.86	**ZEPV 20**
PV 26 G	26	37.60	30.48	**ZEPV 26**
PV 34 G	34	47.80	40.64	**ZEPV 34**
PV 40 G	40	55.40	48.26	**ZEPV 40**
PV 50 G	50	68.10	60.96	**ZEPV 50**

contact surface finish: gold-plated

Use with ribbon cable:
round conductor flat strip:
AWG 28 = solid or stranded
AWG 30 = solid

conductor diameter:
AWG 28 ... 30 = 0.09 ... 0.05 mm²
insulation-Ø:
max 1.1 mm

Male headers 2.54 solder → **G 8**
Application tools → **H 11**
Single contacts metal strip → **G 26**
Technical data → **H 12**

Boltable female header → **H 5**
Shroud. male header SMD → **H 7**
Shrouded male header → **H 6**

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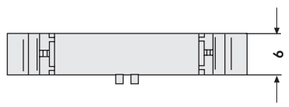
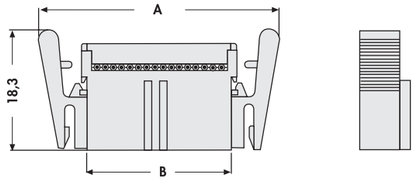
2.54

Female connector

Two rows, with guiding nose

boltable female header, suitable for shrouded male header ASL ...

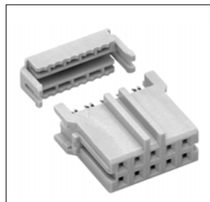


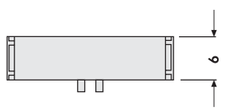


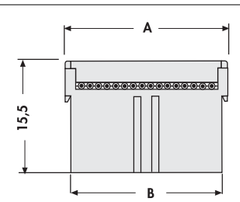
art. no.	no. of contacts	dim. [mm] A	dim. [mm] B	art. no.	no. of contacts	dim. [mm] A	dim. [mm] B
VFL 06 ...	6	23.58	9.56	**VFL 20 ...**	20	41.36	27.34
VFL 08 ...	8	26.12	12.10	**VFL 26 ...**	26	48.98	34.96
VFL 10 ...	10	28.66	14.64	**VFL 34 ...**	34	59.14	45.12
VFL 12 ...	12	31.20	17.18	**VFL 40 ...**	40	66.76	52.74
VFL 14 ...	14	33.74	19.72	**VFL 50 ...**	50	79.46	65.44
VFL 16 ...	16	36.28	22.26				

please indicate: **... surface**
G = gold-plated
Z = tin-plated

suitable for shrouded male header ASL ...







art. no.	no. of contacts	dim. [mm] A	dim. [mm] B	art. no.	no. of contacts	dim. [mm] A	dim. [mm] B
FLMP 06 ...	6	10.97	9.56	**FLMP 20 ...**	20	28.75	27.34
FLMP 08 ...	8	13.51	12.10	**FLMP 26 ...**	26	36.37	34.96
FLMP 10 ...	10	16.05	14.64	**FLMP 34 ...**	34	46.53	45.12
FLMP 12 ...	12	18.59	17.18	**FLMP 40 ...**	40	54.15	52.74
FLMP 14 ...	14	21.13	19.72	**FLMP 50 ...**	50	66.85	65.44
FLMP 16 ...	16	23.67	22.26				

please indicate: **... surface**
G = gold-plated
Z = tin-plated

Use with ribbon cable:
round conductor flat strip:
AWG 28 = solid or stranded
AWG 30 = solid

conductor diameter:
AWG 28 ... 30 = 0.09 ... 0.05 mm^2
insulation-Ø: max 1.1 mm

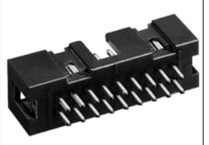
Male headers 2.54 solder → **G 8**
Shrouded male header → **H 6**
Female header one row → **H 3**
Technical data → **H 12**

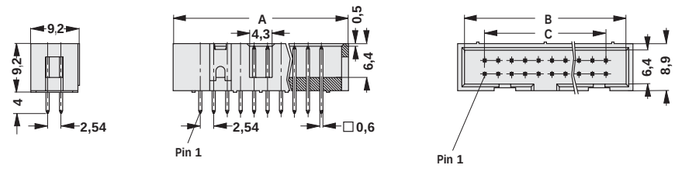
Application tools → **H 11**
Shroud. male header SMD → **H 7**

Male header

Straight, two rows, shrouded

suitable for boltable female header VFL, FLMP, PV



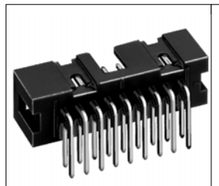


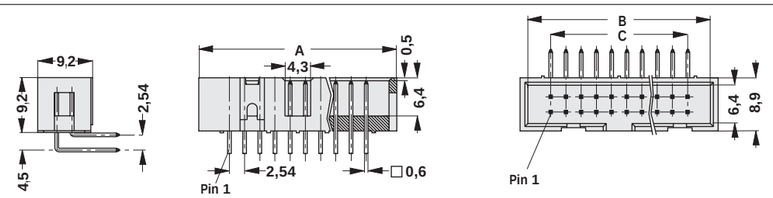
art. no.	no. of contacts	dim. [mm] A	B	C	art. no.	no. of contacts	dim. [mm] A	B	C
ASLG 06 ...	6	15.30	12.70	5.08	**ASLG 20 ...**	20	33.10	30.50	22.86
ASLG 08 ...	8	17.80	15.20	7.62	**ASLG 26 ...**	26	40.70	38.10	30.48
ASLG 10 ...	10	20.40	17.80	10.16	**ASLG 34 ...**	34	50.90	48.30	40.64
ASLG 12 ...	12	22.90	20.30	12.70	**ASLG 40 ...**	40	58.50	55.90	48.26
ASLG 14 ...	14	25.40	22.90	15.24	**ASLG 50 ...**	50	71.20	68.60	60.96
ASLG 16 ...	16	28.00	25.40	17.78					

please indicate: **... surface**
G = gold-plated
Z = tin-plated

Angled, two rows, shrouded

suitable for boltable female header VFL, FLMP, PV





art. no.	no. of contacts	dim. [mm] A	B	C	art. no.	no. of contacts	dim. [mm] A	B	C
ASLA 06 ...	6	15.30	12.70	5.08	**ASLA 20 ...**	20	33.10	30.50	22.86
ASLA 08 ...	8	17.80	15.20	7.62	**ASLA 26 ...**	26	40.70	38.10	30.48
ASLA 10 ...	10	20.40	17.80	10.16	**ASLA 34 ...**	34	50.90	48.30	40.64
ASLA 12 ...	12	22.90	20.30	12.70	**ASLA 40 ...**	40	58.50	55.90	48.26
ASLA 14 ...	14	25.40	22.90	15.24	**ASLA 50 ...**	50	71.20	68.60	60.96
ASLA 16 ...	16	28.00	25.40	17.78					

please indicate: **... surface**
G = gold-plated
Z = tin-plated

Gold-plated resp. tin-plated contacts are available with either straight or squared terminations.
In addition they can be combined with many other stripline connectors in 2.54 mm pitch.

Shroud. male header SMD → **H 7**
Application tools → **H 11**
Male headers 2.54 solder → **G 8**
Technical data → **H 12**

Boltable female header → **H 5**
Female header two rows → **H 4**
Single contacts metal strip → **G 26**

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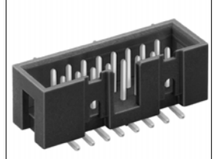
260°C

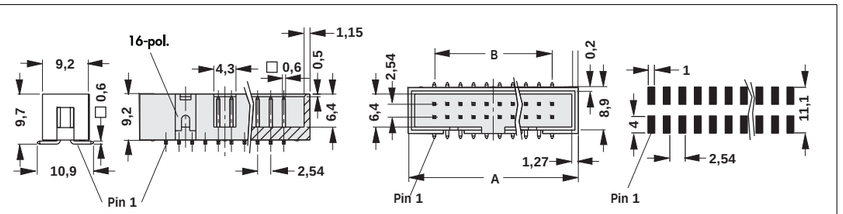
2.54

Male header

SMD, two rows, shrouded

suitable for boltable female header VFL, FLMP, PV





art. no.	no. of contacts	VPE	dim. [mm] A	dim. [mm] B	art. no.	no. of contacts	VPE	dim. [mm] A	dim. [mm] B
ASL 06 SMD ...	6	32	15.30	5.08	**ASL 20 SMD ...**	20	15	33.10	22.86
ASL 08 SMD ...	8	27	17.80	7.62	**ASL 26 SMD ...**	26	12	40.70	30.48
ASL 10 SMD ...	10	24	20.40	10.16	**ASL 34 SMD ...**	34	9	50.90	40.64
ASL 12 SMD ...	12	21	22.90	12.70	**ASL 40 SMD ...**	40	8	58.50	48.26
ASL 14 SMD ...	14	19	25.40	15.24	**ASL 50 SMD ...**	50	7	71.20	60.96
ASL 16 SMD ...	16	17	28.00	17.78					

please indicate:

... surface
G = gold-plated
Z = tin-plated

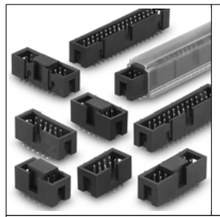
... packing (option)
SM = bar magazine
B SM = pick and place pad and bar magazine

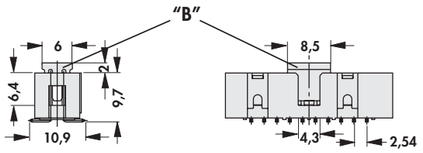
VPE = packing unit (pieces/tube); Gold-plated resp. tin-plated contacts are available with either straight or squared terminations.

In addition they can be combined with many other strip-line connectors in 2.54 mm pitch.

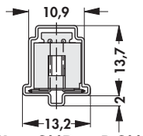
For automatic assembly: Pick and place pad "B" and tube magazin "SM"

– position in the middle





ASL ... SMD ...



ASL ... SMD ... B SM

art. no.
... B SM

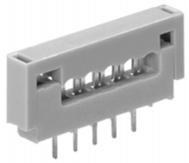
H 7

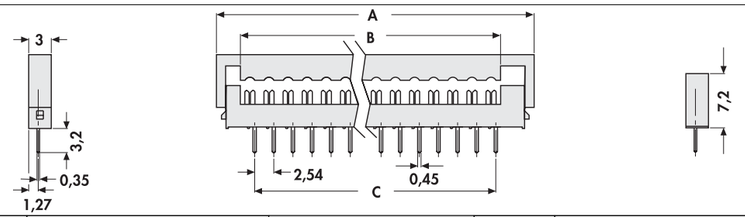
Female header two rows → **H 4**
Application tools → **H 11**
Male headers 2.54 solder → **G 8**
Technical data → **H 12**

Boltable female header → **H 5**
Shrouded male header → **H 6**

Printed circuit connector

One row

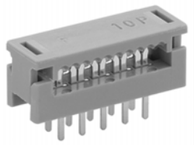


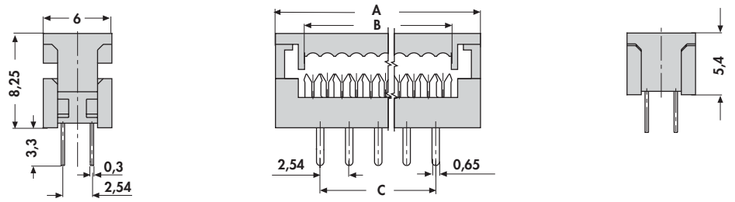


art. no.	no. of contacts	dim. [mm] A	B	C	art. no.	no. of contacts	dim. [mm] A	B	C
SBAU 1 04 Z	4	17.78	10.16	7.62	**SBAU 1 14 Z**	14	43.18	35.56	33.02
SBAU 1 06 Z	6	22.86	15.24	12.70	**SBAU 1 16 Z**	16	48.26	40.64	38.10
SBAU 1 08 Z	8	27.94	20.32	17.78	**SBAU 1 17 Z**	17	50.80	43.18	40.64
SBAU 1 10 Z	10	33.02	25.40	22.86	**SBAU 1 18 Z**	18	53.34	45.72	43.18
SBAU 1 12 Z	12	38.10	30.48	27.94	**SBAU 1 20 Z**	20	58.42	50.80	48.26

contact surface finish: tin-plated

Two rows





art. no.	no. of contacts	dim. [mm] A	B	C	art. no.	no. of contacts	dim. [mm] A	B	C
SBAU 06 S	6	12.90	7.80	5.08	**SBAU 20 S**	20	30.70	25.60	22.86
SBAU 10 S	10	18.00	12.90	10.16	**SBAU 26 S**	26	38.30	33.20	30.48
SBAU 14 S	14	23.00	18.00	15.24	**SBAU 34 S**	34	48.50	43.40	40.64
SBAU 16 S	16	25.60	20.50	17.78					

contact surface finish: selective gold-plated: solder area gold-plated, IDC area nickel-plated

Use with ribbon cable:
round conductor flat strip:
AWG 28 = solid or stranded, AWG 30 = solid

conductor diameter:
AWG 28 ... 30 = 0.09 ... 0.05 mm²
insulation-Ø:
max. 1.1 mm

Sockets for DIL-IC → **F 4 - 10**
D-Sub connectors /flat cable → **I 11**
Male headers 2.54 solder → **G 8**
Technical data → **H 12**
Application tools → **H 11**
PC connector design DIL → **H 2**
Female header grid 2.00 → **H 10**

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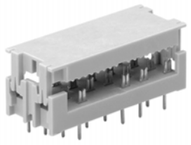
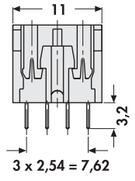
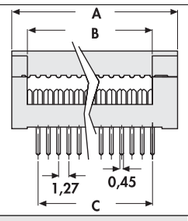
1.27

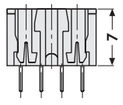
Printed circuit connector

Four rows









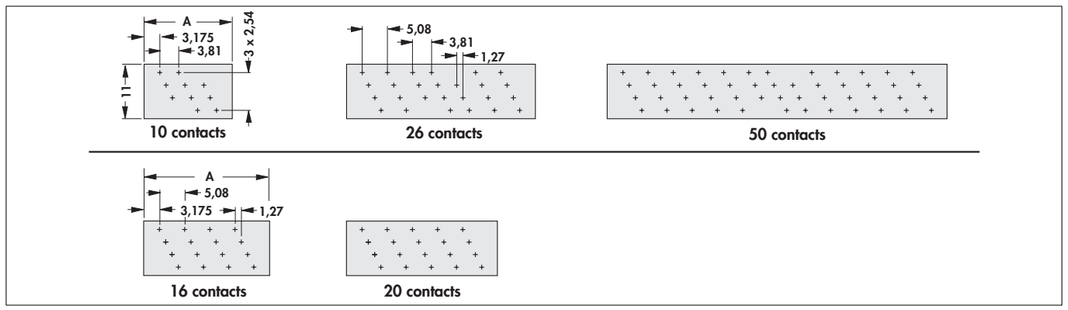
art. no.	no. of contacts	dim. [mm] A	B	C	art. no.	no. of contacts	dim. [mm] A	B	C
SBAU 4 10 S	10	17.78	12.70	11.43	**SBAU 4 26 S**	26	38.10	33.02	31.75
SBAU 4 16 S	16	25.40	20.32	19.05	**SBAU 4 50 S**	50	68.58	63.50	62.23
SBAU 4 20 S	20	30.48	25.40	24.13					

contact surface finish: S = selective-gold-plated: soldering area gold plated, IDC nickel-plated

Use with ribbon cable:
round conductor flat strip:
AWG 28 = solid or stranded, AWG 30 = solid

conductor diameter:
AWG 28 ... 30 = 0.09 ... 0.05 mm²
insulation-Ø:
max. 1.1 mm

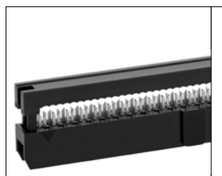
Print-layout for SBAU 4 ...

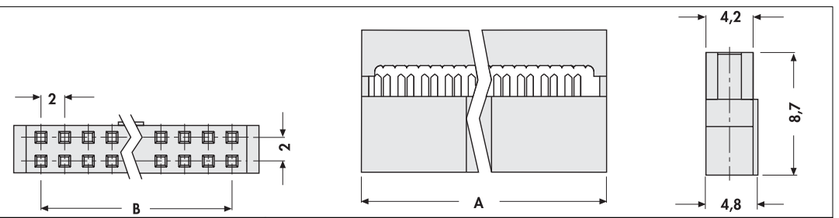


Sockets for DIL-IC → F 4 - 10
Application tools → H 11
Male headers 2.54 solder → G 8
Technical data → H 12
Female header grid 2.00 → H 10
D-Sub connectors /flat cable → I 11
PC connectors → H 8 - 9
PC connector design DIL → H 2

Female connector

Two rows





art. no.	no. of contacts	dim. [mm]	
		A	B
PVY 20 S	20	25.10	18.00
PVY 40 S	40	45.30	38.00
PVY 44 S	44	49.30	42.00
PVY 50 S	50	55.10	48.00

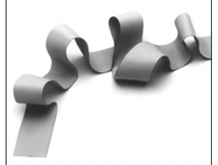
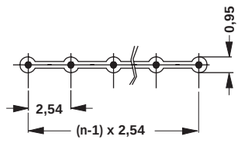
contact surface finish: selective gold-plated

A
B
C
D
E
F
G
H
I
K
L
M
N

Male headers 2.00 solder → G 56 - 58
Female headers 2.00 solder → G 60
Male headers 2.00 SMD → G 61 - 62
Female headers 2.00 SMD → G 64
Application tools → H 11
Boltable female header → H 5
Technical data → H 12
Female header two rows → H 4

Accessories for flat ribbon cable and application tools

Flat ribbon cable - spacing 2,54 mm - suitable for connectors FV, SBAU 1

	
art. no.	no. of contacts
BK 01 32	32

Technical data:
current rating: 2 A; conductor resistance: ≤ 230 mΩ/m; capacitance: ≤ 65 pF/m symmetrical; wave impedance: 170 Ω symmetrical
cross section: AWG 28/~0.089 mm²; conductor: 7 x Ø 0,127 mm; operating voltage: 300 V_{eff} max. operating temperature range:
-30 ... +105 °C

Bench press

height without handle: 28 cm, weight: 9.02 kg

art. no.
VBK 1

The bench press VBK 1 connects all contacts of IDC connector types KK, SB, FV, PV, PVZ and VFL in one simple operation.

By piercing through the insulation, the contacts form, due to their conception,
a gas-tight and corrosion-proof connection.

Accessories, suitable for strip-line connector

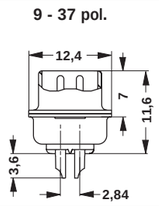
art. no.	suitable for male connectors and female headers
KK W	KK
SB W	SB
PV W	PV, VFL, FLMP
PVY W	PVY
D W 9 37	D-Sub (9-37 contacts)

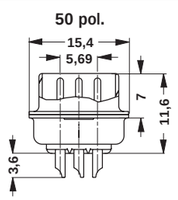
Removable locating frames for every indicated type available.

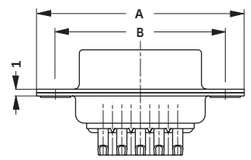
H 11

Boltable female header → **H 5**
Female header two rows → **H 4**
Female header grid 2.00 → **H 10**
D-Sub connectors /flat cable → **I 11**
Female header one row → **H 3**
PC connectors → **H 8**
→ **H 8**

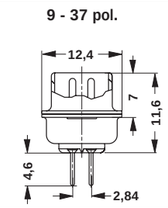
Male headers manual soldering

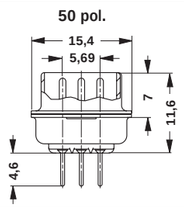


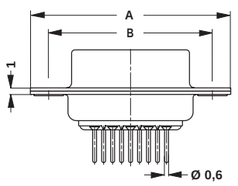




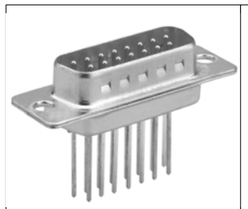
art. no.	no. of contacts	contact	connection type	dim. [mm] A	dim. [mm] B
DS 09 L	9	male	manual soldering	30.80	25.00
DS 15 L	15	male	manual soldering	39.20	33.30
DS 25 L	25	male	manual soldering	53.10	47.00
DS 37 L	37	male	manual soldering	69.50	63.50
DS 50 L	50	male	manual soldering	67.00	61.10

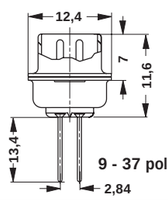


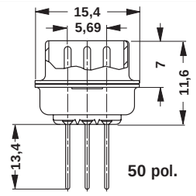


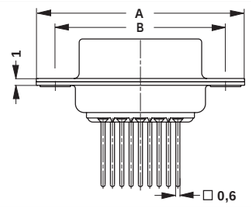


art. no.	no. of contacts	contact	connection type	dim. [mm] A	dim. [mm] B
DS 09 T	9	male	dip soldering	30.80	25.00
DS 15 T	15	male	dip soldering	39.20	33.30
DS 25 T	25	male	dip soldering	53.10	47.00
DS 37 T	37	male	dip soldering	69.50	63.50
DS 50 T	50	male	dip soldering	67.00	61.10









art. no.	no. of contacts	contact	connection type	dim. [mm] A	dim. [mm] B
DS 09 WW 3	9	male	wire wrap	30.80	25.00
DS 15 WW 3	15	male	wire wrap	39.20	33.30
DS 25 WW 3	25	male	wire wrap	53.10	47.00
DS 37 WW 3	37	male	wire wrap	69.50	63.50
DS 50 WW 3	50	male	wire wrap	67.00	61.10

Technical data → **I 27 - 28**
D-Sub w. mount. bracket → **I 5 - 6**
D-Sub connectors /flat cable → **I 11**
Screw fastening → **I 28**
D-Sub mixed layout → **I 13 - 14**
Application tools → **H 11**

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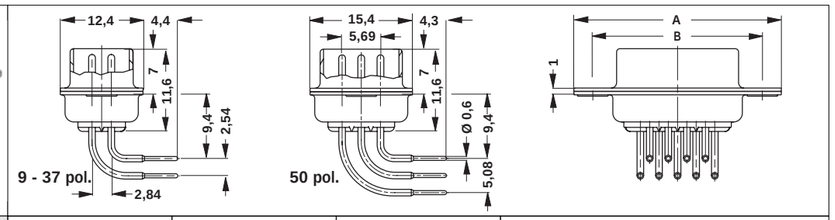
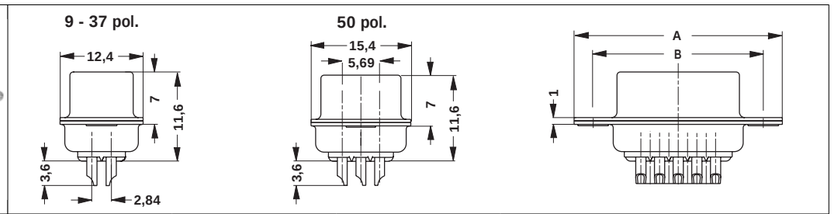
D-Sub standard connectors



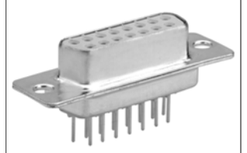
art. no.	no. of contacts	contact	connection type	dim. [mm] A	dim. [mm] B
DS 37 LA	37	male	90° angled	69.50	63.50
DS 50 LA	50	male	90° angled	67.00	61.10

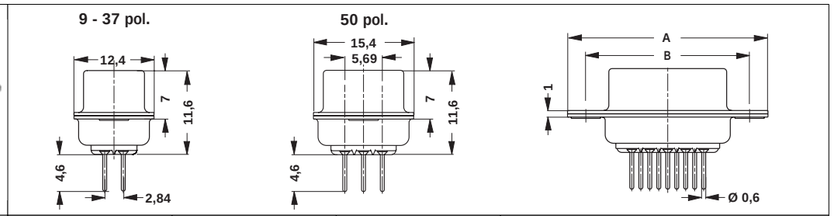
cases: tin-plated
With turned precision contacts. The screened version.

Female headers manual soldering



art. no.	no. of contacts	contact	connection type	dim. [mm] A	dim. [mm] B
DB 09 L	9	female	manual soldering	30.80	25.00
DB 15 L	15	female	manual soldering	39.20	33.30
DB 25 L	25	female	manual soldering	53.10	47.00
DB 37 L	37	female	manual soldering	69.50	63.50
DB 50 L	50	female	manual soldering	67.00	61.10

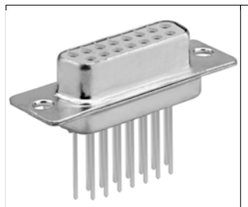


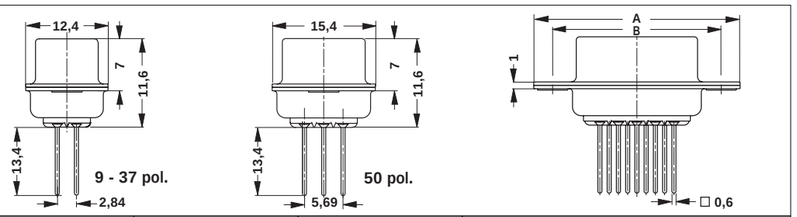


art. no.	no. of contacts	contact	connection type	dim. [mm] A	dim. [mm] B
DB 09 T	9	female	dip soldering	30.80	25.00
DB 15 T	15	female	dip soldering	39.20	33.30
DB 25 T	25	female	dip soldering	53.10	47.00
DB 37 T	37	female	dip soldering	69.50	63.50
DB 50 T	50	female	dip soldering	67.00	61.10

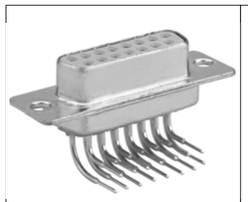
D-Sub mixed layout → I 13 - 14
Screw fastening → I 28
D-Sub connectors /flat cable → I 11
D-Sub w. mount. bracket → I 5 - 6
Technical data → I 29 - 30

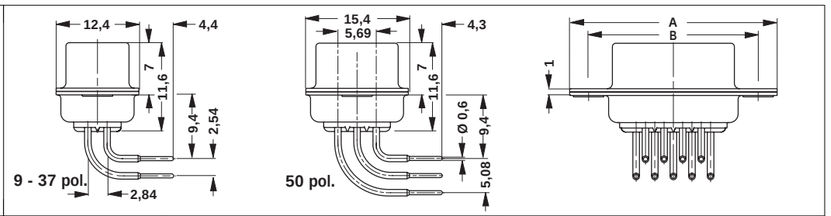
D-Sub standard connectors





art. no.	no. of contacts	contact	connection type	dim. [mm] A	dim. [mm] B
DB 09 WW 3	9	female	wire wrap	30.80	25.00
DB 15 WW 3	15	female	wire wrap	39.20	33.30
DB 25 WW 3	25	female	wire wrap	53.10	47.00
DB 37 WW 3	37	female	wire wrap	69.50	63.50
DB 50 WW 3	50	female	wire wrap	67.00	61.10



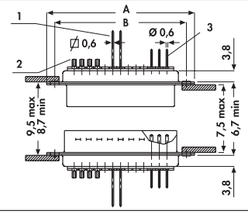


art. no.	no. of contacts	contact	connection type	dim. [mm] A	dim. [mm] B
DB 25 LA	25	female	90° angled	53.10	47.00
DB 37 LA	37	female	90° angled	69.50	63.50
DB 50 LA	50	female	90° angled	67.00	61.10

cases: tin-plated

With turned precision contacts. The screened version.

Einbaudarstellung



1 = wire wrap pin
2 = solder terminal
3 = solder pin for PCB

Screw fastening → **I 28**
D-Sub mixed layout → **I 13 - 14**
D-Sub w. mount. bracket → **I 5 - 6**
D-Sub connectors /flat cable → **I 11**
Technical data → **I 29 - 30**

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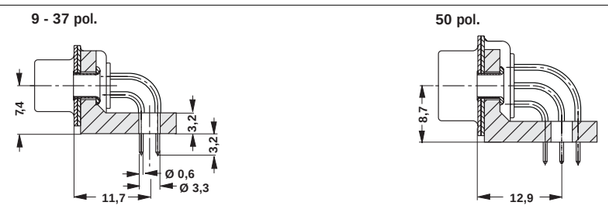
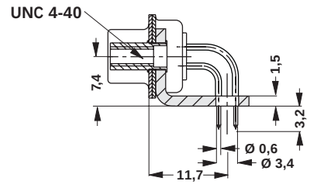
D-Sub standard connectors with mounting bracket



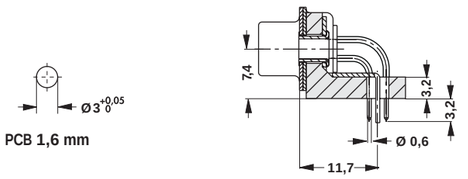
art. no.	contact	mounting angle
DB WK 9	female	plastic angle, riveted



art. no.	contact	mounting angle
DS WMV 4 ...	male	metal angle with screw fastening, thread UNC 4-40
DB WMV 4 ...	female	metal angle with screw fastening, thread UNC 4-40

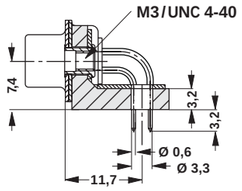
please indicate: **... no. of contacts**
9, 25

D-Sub standard connectors with mounting bracket



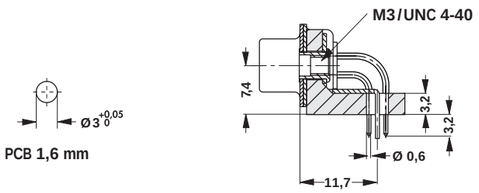
art. no.	contact	mounting angle
DS WR ...	male	plastic angle with earthing plate and snap-on clip
DB WR ...	female	plastic angle with earthing plate and snap-on clip

please indicate: **... no. of contacts**
25, 37



art. no.	contact	mounting angle
DS WE 3 ...	male	plastic angle with earthing plate and threaded rivet M3
DS WE 4 ...	male	plastic angle with earthing plate and threaded rivet UNC 4-40
DB WE 3 ...	female	plastic angle with earthing plate and threaded rivet M3
DB WE 4 ...	female	plastic angle with earthing plate and threaded rivet UNC 4-40

please indicate: **... no. of contacts**
9, 15, 25, 37



art. no.	contact	mounting angle
DS WR 3 ...	male	plastic angle with earthing plate, snap-on clip and threaded rivet M3
DS WR 4 ...	male	plastic angle with earthing plate, snap-on clip & threaded rivet UNC 4-40
DB WR 3 ...	female	plastic angle with earthing plate, snap-on clip and threaded rivet M3
DB WR 4 ...	female	plastic angle with earthing plate, snap-on clip & threaded rivet UNC 4-40

please indicate: **... no. of contacts**
9, 15, 25, 37

Technical data → **I 29 - 30**
D-Sub connectors /flat cable → **I 11**
D-Sub high density → **I 7**
Accessories for HF → **I 29**
D-Sub standard connectors → **I 2 - 4**
D-Sub high density → **I 7**

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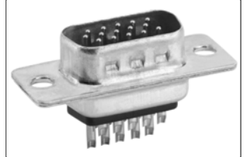
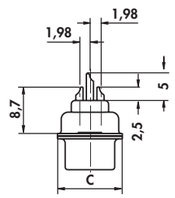
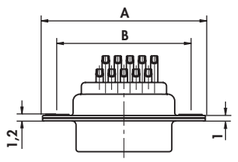
D-Sub connectors High Density

Male headers





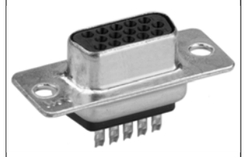


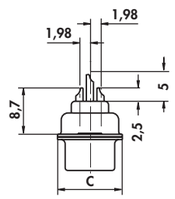
art. no.	no. of contacts	contact	dim. [mm] A	B	C	D	E (max.)	F
HD S 15 L	15	male	30.60	25.00	12.20	7.10	7.60	2.29
HD S 26 L	26	male	39.00	33.30	12.20	6.80	7.00	2.29
HD S 44 L	44	male	52.80	47.00	12.20	7.00	6.80	2.29

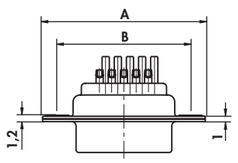
cases: tin-plated; **kind of terminal:** manual soldering

With turned precision contacts. The screened version.

Female headers



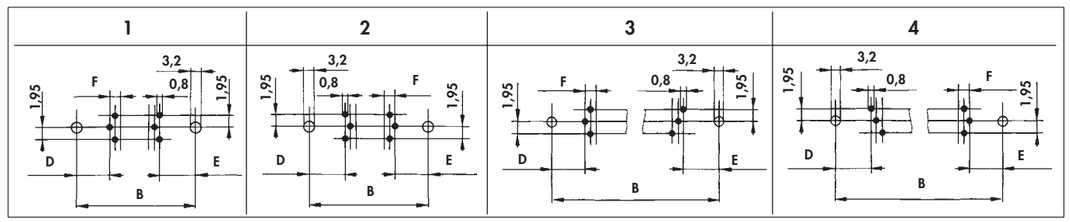




art. no.	no. of contacts	contact	dim. [mm] A	B	C	D	E (max.)	F
HD B 15 L	15	female	30.80	25.00	12.20	7.60	7.10	2.29
HD B 26 L	26	female	39.20	33.30	12.20	7.00	6.80	2.29
HD B 44 L	44	female	53.00	47.00	12.20	6.80	7.00	2.29

cases: tin-plated; **kind of terminal:** manual soldering

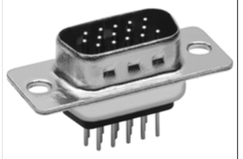
With turned precision contacts. The screened version.

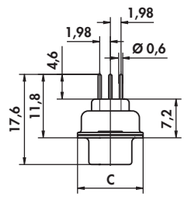


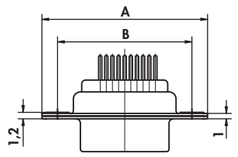
1 = male, 15 contacts; **2** = female, 15 contacts
3 = male, 26/44 contacts; **4** = female, 26/44 contacts

Technical data → **I 29 - 30**
Screw fastening → **I 28**
D-Sub connectors /flat cable → **I 11**
D-Sub cut-out cover → **I 27**
Accessories for HF → **I 29**

Male headers





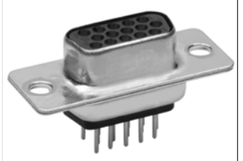


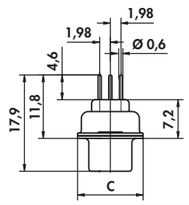
art. no.	no. of contacts	contact	dim. [mm] A	B	C	D	E (max.)	F
HD S 15 T	15	male	30.60	25.00	12.20	7.10	7.60	2.29

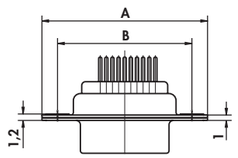
cases: tin-plated; **kind of terminal:** dip soldering

With turned precision contacts. The screened version.

Female headers



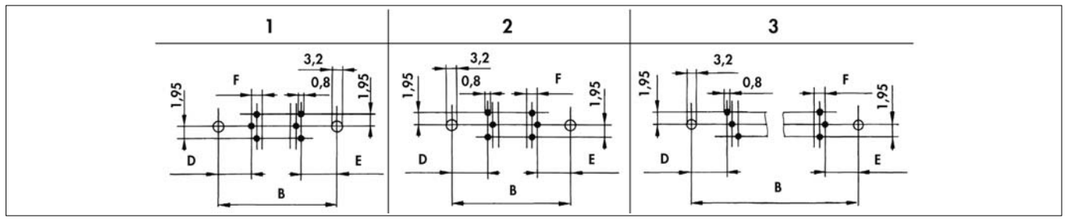




art. no.	no. of contacts	contact	dim. [mm] A	B	C	D	E (max.)	F
HD B 15 T	15	female	30.80	25.00	12.20	7.60	7.10	2.29
HD B 26 T	26	female	39.20	33.30	12.20	7.00	6.80	2.29

cases: tin-plated; **kind of terminal:** dip soldering

With turned precision contacts. The screened version.



1 = male, 15 contacts; **2** = female, 15 contacts; **3** = female, 26 contacts

Technical data → **I 29 - 30**
Screw fastening → **I 28**
D-Sub connectors /flat cable → **I 11**
High-prec.male head.in SMD mount. → **G 35**
Accessories for HF → **I 29**
D-Sub cut-out cover → **I 27**

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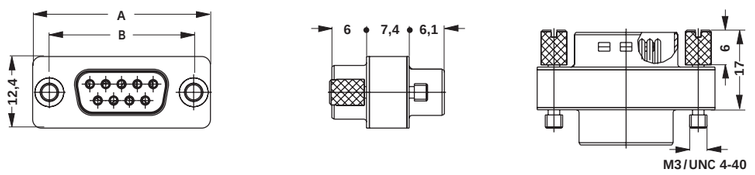
D-Sub filter connector

Adapter, 9-37 contacts

capacity per contact: 1000 pF



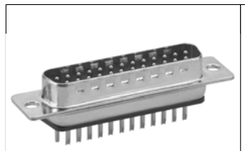
art. no.	no. of contacts	type of thread	dim. [mm] A	dim. [mm] B
FD A ... 09 1000	9	3	30.80	25.00
FD A ... 15 1000	15	3	39.20	33.30
FD A ... 25 1000	25	3	53.10	47.00
FD A ... 37 1000	37	3	69.50	63.50

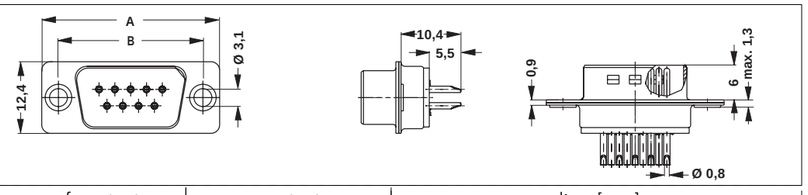
please indicate: **... type of thread**
3 = M 3
4 = UNC 4-40

Standard installation dimensions.
HF-tight, stud bolt mountable on both sides.
Compatible with standard accessories.

Male headers, mit Lötkelch

capacity per contact: 1000 pF - other components on request; geeignet für Kabel AWG 22



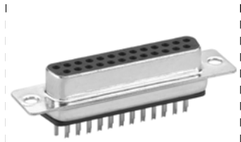


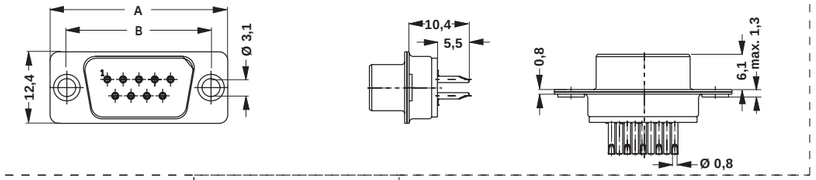
art. no.	no. of contacts	contact	dim. [mm] A	dim. [mm] B
FD S 09 L 1000	9	male	30.80	25.00
FD S 15 L 1000	15	male	39.20	33.30
FD S 25 L 1000	25	male	53.10	47.00
FD S 37 L 1000	37	male	69.50	63.50

Standard installation dimensions.
HF-tight, closed metal rear panel.
Compatible with standard accessories.

Female headers, mit Lötkelch

capacity per contact: 1000 pF - other components on request; geeignet für AWG 22





art. no.	no. of contacts	contact	dim. [mm] A	dim. [mm] B
FD B 09 L 1000	9	female	30.80	25.00
FD B 15 L 1000	15	female	39.20	33.30
FD B 25 L 1000	25	female	53.10	47.00
FD B 37 L 1000	37	female	69.50	63.50

Standard installation dimensions.
HF-tight, closed metal rear panel.
Compatible with standard accessories.

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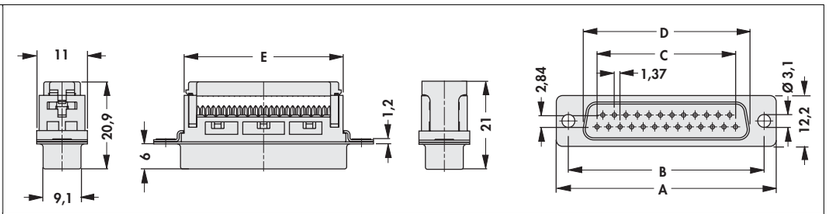
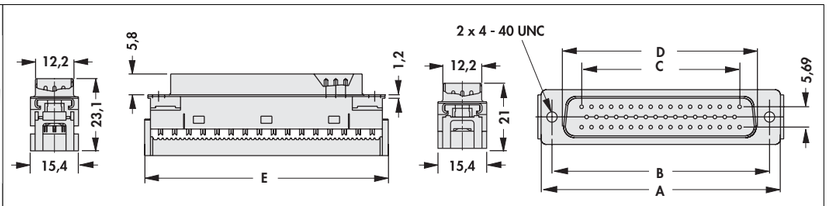
D-Sub connector for flat ribbon cable

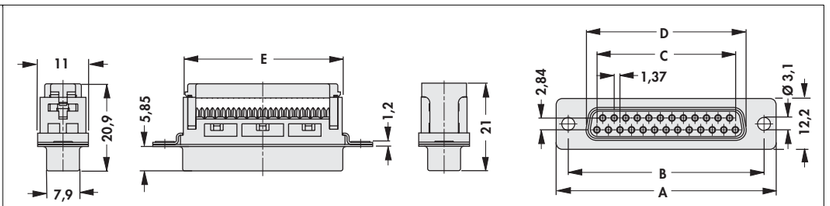
Male headers and female headers



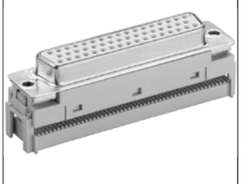
art. no.	no. of contacts	contact	dim. [mm] A	B	C	D	E (max.)
DS BK 09	9	male	30.60	25.00	10.96	17.90	16.10
DS BK 15	15	male	39.00	33.30	19.33	26.20	23.90
DS BK 25	25	male	52.80	47.00	33.13	39.90	38.10
DS BK 37	37	male	69.20	63.50	49.70	56.30	54.70

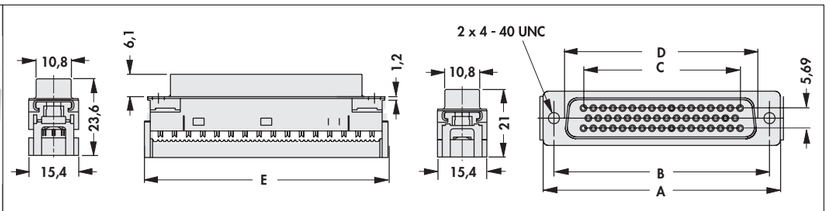


art. no.	no. of contacts	contact	dim. [mm] A	B	C	D	E (max.)
DS BK 50	50	male	66.80	61.10	44.20	54.00	68.60



art. no.	no. of contacts	contact	dim. [mm] A	B	C	D	E (max.)
DB BK 09	9	female	30.60	25.00	10.96	16.30	16.10
DB BK 15	15	female	39.00	33.30	19.33	24.50	23.90
DB BK 25	25	female	52.80	47.00	33.13	38.50	38.10
DB BK 37	37	female	69.20	63.50	49.70	54.80	54.70



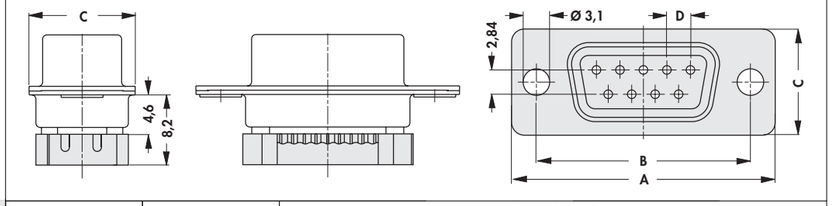


art. no.	no. of contacts	contact	dim. [mm] A	B	C	D	E (max.)
DB BK 50	50	female	66.80	61.10	44.20	52.40	68.60

Technical data → I 27 - 28
Female header two rows → H 4
Application tools → H 11
D-Sub standard connectors → I 2 - 4
D-Sub high density → I 7
D-Sub mixed layout → I 13 - 14

D-Sub connector for flat ribbon cable

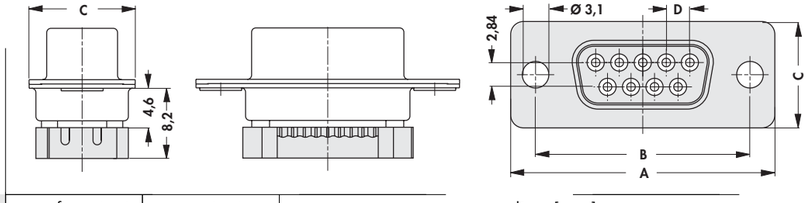
Male headers, low profile



art. no.	no. of contacts	contact	dim. [mm] A	B	C	D
DS BK 09 LP	9	male	30.80	25.00	12.40	2.74
DS BK 15 LP	15	male	39.20	33.30	12.40	2.74
DS BK 25 LP	25	male	53.10	47.00	12.40	2.77
DS BK 37 LP	37	male	69.50	63.50	12.40	2.77

useable ribbon cable: AWG 26 - 28

Female headers, low profile



art. no.	no. of contacts	contact	dim. [mm] A	B	C	D
DB BK 09 LP	9	female	30.80	25.00	12.40	2.74
DB BK 25 LP	25	female	53.10	47.00	12.40	2.77
DB BK 37 LP	37	female	69.50	63.50	12.40	2.77

useable ribbon cable: AWG 26 - 28

Technical data → **I 27 - 28**
Application tools → **H 11**
Application tools → **H 11**
D-Sub standard connectors → **I 2 - 4**
D-Sub high density → **I 7**
Screw fastening → **I 28**
D-Sub mixed layout → **I 13 - 14**

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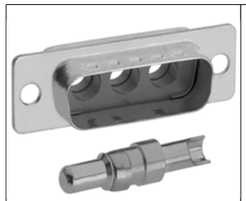
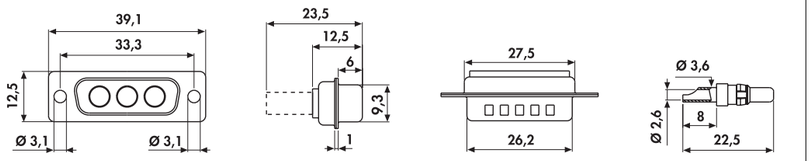
D-Sub mixed layout connectors

Male headers - suitable for standard D-Sub accessories

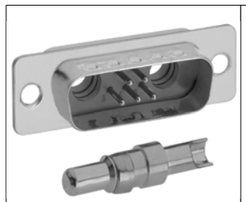
3 high current contacts

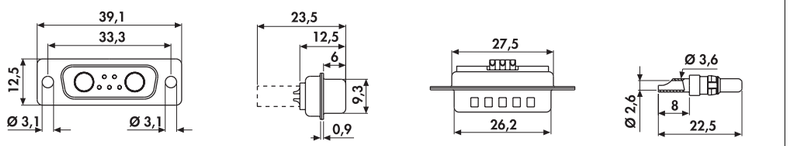




art. no.	contact
DSM 3K3 L20	male

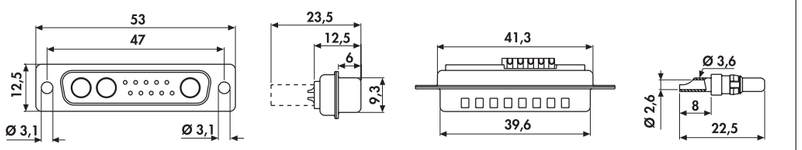
2 high current contacts, 5 signal contacts





art. no.	contact
DSM 7K2 L20	male

3 high current contacts, 10 signal contacts



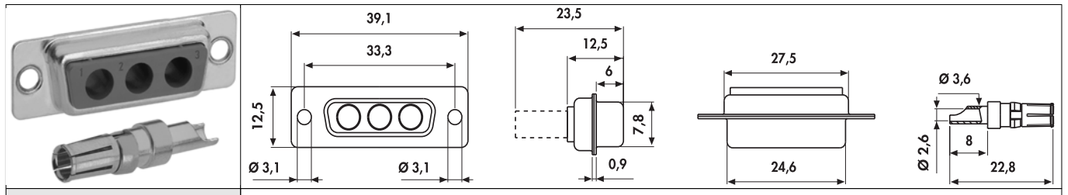
art. no.	contact
DSM 13K3 L20	male

Gold-plated contacts.

With high current contacts up to 20 A.
For cables up to AWG 16.

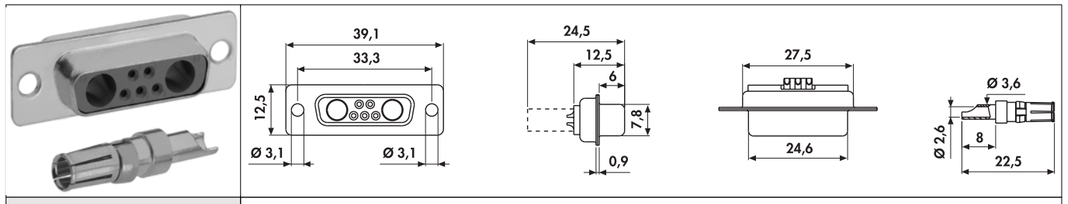
Female headers - suitable for standard D-Sub accessories

3 high current contacts



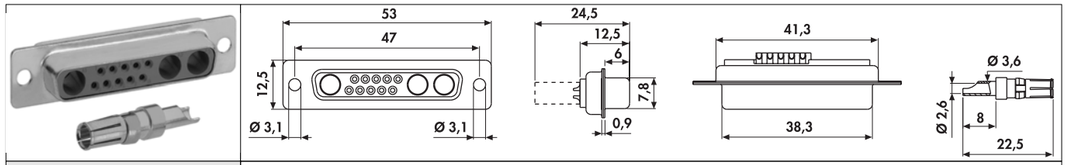
art. no.	contact
DBM 3K3 L20	female

2 high current contacts, 5 signal contacts



art. no.	contact
DBM 7K2 L20	female

3 high current contacts, 10 signal contacts



art. no.	contact
DBM 13K3 L20	female

Gold-plated contacts.

With high current contacts up to 20 A.
For cables up to AWG 16.

Screw fastening → I 28
D-Sub cut-out cover → I 27
D-Sub high density → I 7
Accessories for HF → I 29

D-Sub high density → I 7

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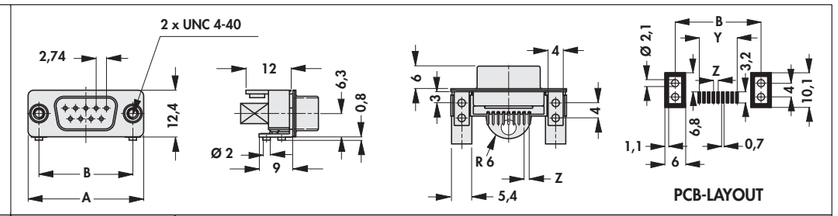
D-Sub in SMD-mounting

Male headers

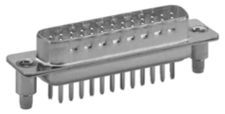


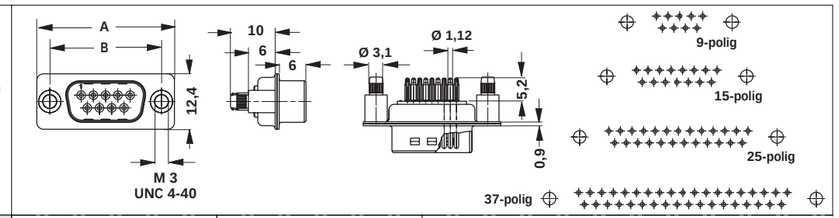
art. no.	no. of contacts	dim. [mm]			
		A	B	Y	Z
DS 09 SMD TR	9	30.80	25.00	10.98	1.37
DS 15 SMD TR	15	39.20	33.30	19.20	1.37
DS 25 SMD TR	25	53.10	47.00	33.12	1.38
DS 37 SMD TR	37	69.50	63.50	49.68	1.38

packing: tape and reel (150 pcs/reel); reel outer diameter 330 mm

D-Sub mixed layout → I 13 - 14
D-Sub connectors /flat cable → I 11
D-Sub cut-out cover → I 27
D-Sub standard connectors → I 2 - 4
D-Sub high density → I 7

D-Sub hoods, standard





art. no.	no. of contacts	type of thread	dim. [mm]	
			A	B
DS ... 9 P	9	3	30.80	25.00
DS ... 15 P	15	3	39.20	33.30
DS ... 25 P	25	3	53.10	47.00
DS ... 37 P	37	3	69.50	63.50

please indicate: **... type of thread**
3 = M 3
4 = UNC 4-40

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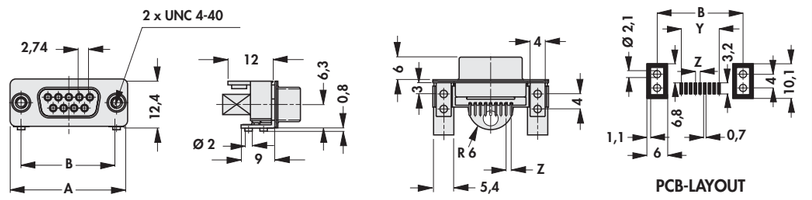
D-Sub in SMD-mounting

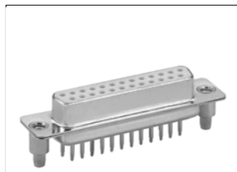
Female headers

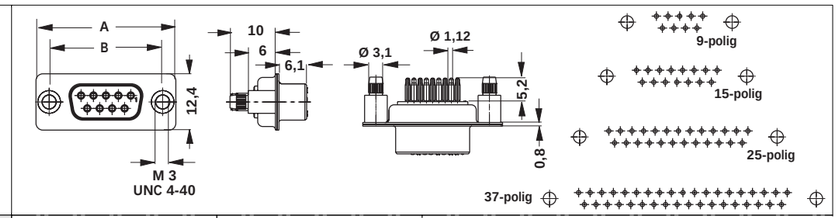


art. no.	no. of contacts	dim. [mm]			
		A	B	Y	Z
DB 09 SMD TR	9	30.80	25.00	10.98	1.37
DB 15 SMD TR	15	39.20	33.30	19.20	1.37
DB 25 SMD TR	25	53.10	47.00	33.12	1.38
DB 37 SMD TR	37	69.50	63.50	49.68	1.38

packing: tape and reel (150 pcs/reel); reel outer diameter 330 mm

D-Sub hoods, standard





art. no.	no. of contacts	type of thread	dim. [mm]	
			A	B
DB ... 9 P	9	3	30.80	25.00
DB ... 15 P	15	3	39.20	33.30
DB ... 25 P	25	3	53.10	47.00
DB ... 37 P	37	3	69.50	63.50

please indicate: **... type of thread**
3 = M 3
4 = UNC 4-40

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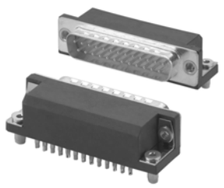
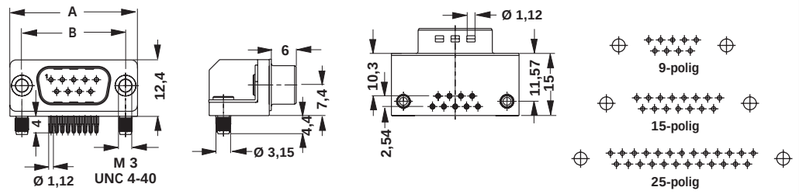
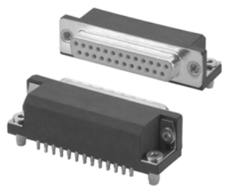
D-Sub hoods, standard

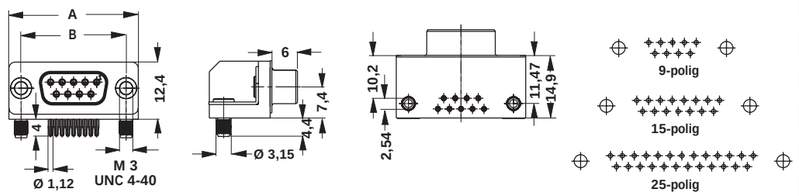




art. no.	no. of contacts	type of thread	dim. [mm] A	dim. [mm] B
DS WP ... 9	9	3	30.80	25.00
DS WP ... 15	15	3	39.20	33.30
DS WP ... 25	25	3	53.10	47.00
DS WP ... 37	37	3	69.50	63.50

please indicate: **... type of thread**
3 = M 3
4 = UNC 4-40

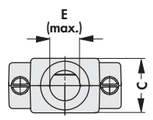


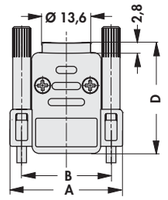


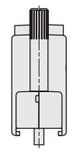
art. no.	no. of contacts	type of thread	dim. [mm] A	dim. [mm] B
DB WP ... 9	9	3	30.80	25.00
DB WP ... 15	15	3	39.20	33.30
DB WP ... 25	25	3	53.10	47.00
DB WP ... 37	37	3	69.50	63.50

please indicate: **... type of thread**
3 = M 3
4 = UNC 4-40

D-Sub hoods, standard

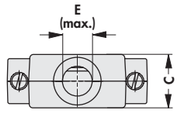


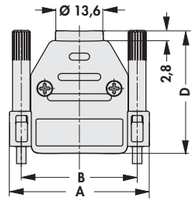


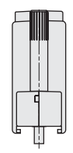


art. no.	no. of contacts	dim. [mm]				
		E (max.)	A	B	C	D
DH 09 ...	9	8.50	31.50	25.00	15.20	31.00

please indicate: **... case surface:**
S = plastic, black
M = plastic, metallized







art. no.	no. of contacts	dim. [mm]				
		E (max.)	A	B	C	D
DH 15 ...	15	8.50	40.00	33.30	15.20	33.50
DH 25 ...	25	11.00	53.50	47.00	15.20	38.00
DH 37 ...	37	11.00	70.00	63.50	15.20	40.00
DH 50 ...	50	12.00	67.50	61.10	18.20	40.00

please indicate: **... case surface:**
S = plastic, black
M = plastic, metallized

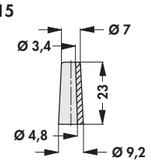
E = max. diameter of the bushing in mm
Threaded bolt UNC 4-40. Large cable space with few components.

version: 9-37 can be mounted in series in 3 HP grid, thus especially suitable for 19" technology.
plastic material according: to UL 94:V-0

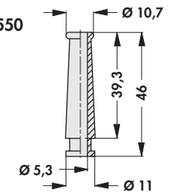
Suitable cable bushing

Protects the cable against damage by buckling.

KT 0915



KT 2550



art. no.	for no. of contacts
KT 0915	9, 15
KT 2550	25, 37, 50

D-Sub connectors /flat cable → I 11
D-Sub mixed layout I 13
Screw fastening I 28

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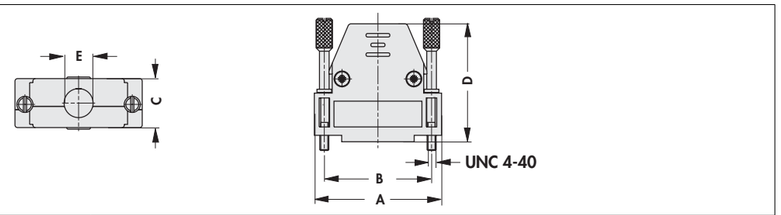
D-Sub hoods, standard

With self-cutting threaded bolt

straight cable outlet with pre-assembled strain relief



art. no.	no. of contacts	dim. [mm]				
		E (max.)	A	B	C	D
DH SG 09 ...	9	8.00	31.00	25.00	16.00	35.60
DH SG 15 ...	15	9.00	39.50	33.30	16.00	36.60
DH SG 25 ...	25	10.00	53.00	47.00	16.00	41.00
DH SG 37 ...	37	11.00	69.50	63.50	16.00	45.30
DH SG 50 ...	50	14.00	67.00	61.10	19.80	51.40

please indicate: **... case surface:**
S = plastic, black
M = plastic, metallized

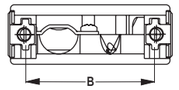
material: thermoplastic ABS

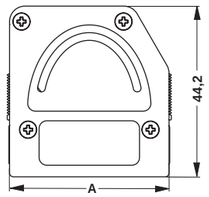
D-Sub mixed layout → **I 13 - 14**
D-Sub connectors /flat cable → **I 11**
D-Sub high density → **I 7**
Screw fastening → **I 28**
D-Sub standard connectors → **I 2 - 4**

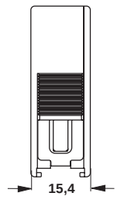
D-Sub hoods, quick-action locking system

D-Sub hoods with quick-action locking system

straight and side-gated cable outlet





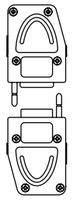


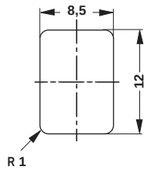
art. no.	no. of contacts	dim. [mm] A	dim. [mm] B
DH SV 09 S	9	33.00	25.00
DH SV 15 S	15	41.30	33.30
DH SV 25 S	25	55.00	47.00

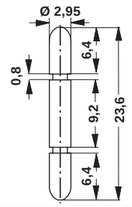
option: metallised surface on request

material: thermoplastic ABS

Accessories – latch pin for hood – hood connection



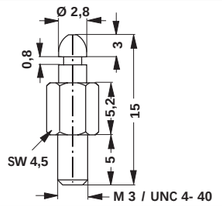




art. no.
RS HH

Accessories – latch pin for plug connector – hood connection

latch pin for connectors with thread M3 / UNC 4-40



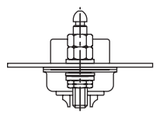
art. no.	type of thread
RS SH 3	M 3
RS SH 4	UNC 4-40

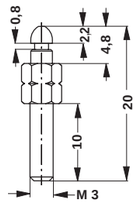
Screw fastening → I 28
D-Sub connectors /flat cable → I 11
D-Sub High Density → I 8
D-Sub mixed layout → I 13 - 14
D-Sub cut-out cover → I 27
Accessories for HF → I 29

Accessoires for DH SV ...

Accessories – latch pin for plug connector – hood connection

latch pin for existing connector with through hole

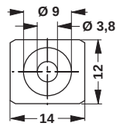


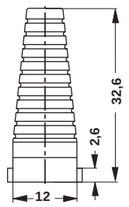


art. no.
RS SH D

Cable sleeve - quick-acting closure hood DH SV ...

for cable diameters 3-9 mm





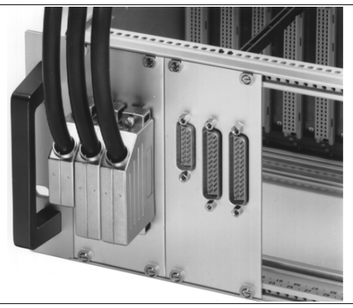
art. no.	no. of contacts
KT SV	9, 15, 25

Cable sleeves are supplied with chamfers, which are adequate to a diameter-grading of 0.5 mm. They can be cut off depending on the exisiting diameter of the cable.

flammability: UL 94 HB

D-Sub hoods, compact

9-50 pins

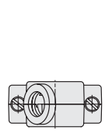


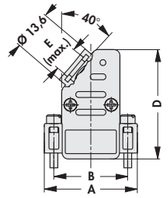
Width C - 3 HP.

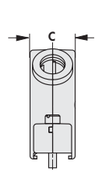
version: 9-37 pins can be mounted in series in 3 HP grid, thus especially suitable for 19" technology

plastic material: according to UL 94 V-0

Metallized version with excellent shielding against electrical and magnetic alternating fields.
2-at side cable outputs (25-50 pins).
40° opening, open (9-50 pins). 90° opening, covered (25-50 pins).
Integrated dust protective shroud.
Captive latching screws with UNC 4-40 treads.







art. no.	no. of contacts	dim. [mm]				
		A	B	C	D	E (max.)
DH 09 ...	9	31.50	25.00	15.20	37.00	8.50
DH 15 ...	15	40.00	33.30	15.20	37.00	8.50
DH 25 ...	25	53.50	47.00	15.20	41.00	11.00
DH 37 ...	37	70.00	63.50	15.20	41.00	11.00
DH 50 ...	50	67.80	61.10	18.20	41.00	12.00

please indicate: **... case surface:**
K = plastic, black
KM = plastic, metallized

E = max. diameter of the bushing in mm

D-Sub mixed layout → **I 13 - 14**
Technical data → **I 29 - 30**
Screw fastening → **I 28**
D-Sub standard connectors → **I 2 - 4**

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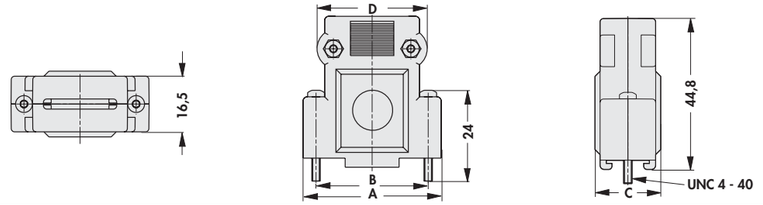
D-Sub cover for flat cable

D-Sub cover for flat cable, 9-25 contacts

for D-Sub connectors DS BK ... and DB BK ...



art. no.	no. of contacts	dim. [mm]			
		A	B	C	D
DH BK 09 ...	9	33.00	25.00	19.50	24.60
DH BK 25 ...	25	54.80	47.00	19.50	47.60

please indicate: **... case surface:**
K = plastic, grey
KM = plastic, metallized

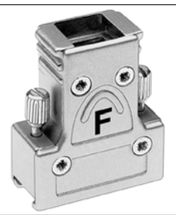
material: ABS; Internal strain relief. Two-part plastic hood with UNC 4-40 screws.

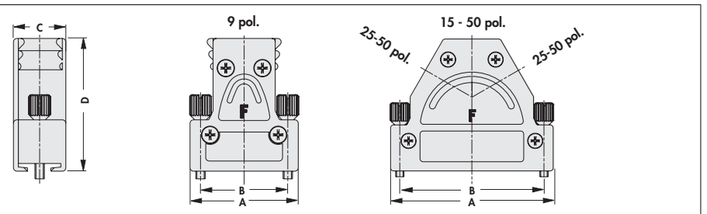
Male headers 2.54 solder → **G 8**
Female header two rows → **H 4**
Single contacts metal strip → **G 26**
Boltable female header → **H 5**

Application tools → **H 11**
Female header grid 2.00 → **H 10**
Peel-off terminal strips → **G 25**

D-Sub hoods made of full metal

Vertical cable clamp



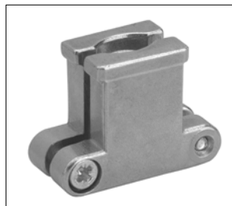


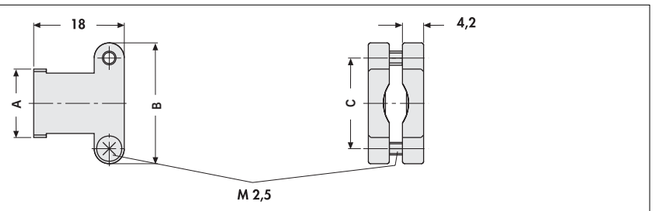
art. no.	no. of contacts	cable clamps	crimp flange	crimp sleeve	dim. [mm] A	B	C	D
DH 09 VM	9	KKS 937	CF ...	CH ...	31.00	25.00	15.00	38.00
DH 15 VM	15	KKS 937	CF ...	CH ...	39.50	33.30	15.00	35.00
DH 25 VM	25	KKS 937	CF ...	CH ...	53.00	47.00	15.00	43.00
DH 37 VM	37	KKS 937	CF ...	CH ...	69.50	63.50	15.00	43.00
DH 50 VM	50	KKS 050	CF ...	CH ...	67.20	61.10	17.80	43.00

Lateral knurled screws with UNC 4-40 thread. Easy mounting due to pre-tapped thread.
HF-tight due to crimp flange CF ...

Accessories for D-Sub hoods made of full metal - screwable cable clamp

For clamping the screen and as strain relief.





art. no.	no. of contacts	dim. [mm] A	B	C
KKS 050	50	19.80	25.00	19.00

Technical data → I 27 - 28
Screw fastening → I 28
Application tools → H 11
D-Sub cut-out cover → I 27

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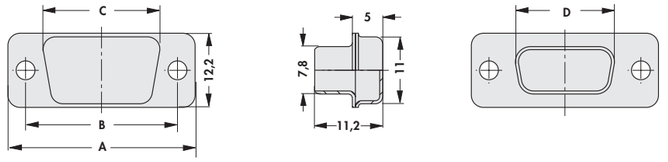
Cut-out cover

Cover for D-Sub cut outs in front and backpanel

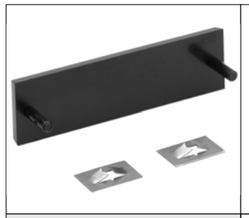
suitable for EMC application, closed one side

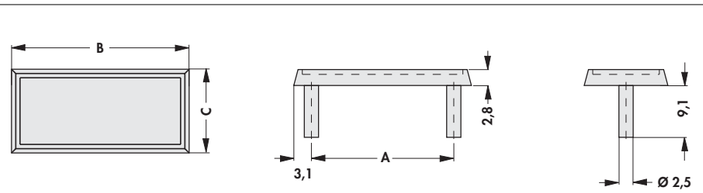


art. no.	no. of contacts	dim. [mm]			
		A	B	C	D
BADM 09	9	30.80	25.00	19.20	16.30
BADM 15	15	39.30	33.30	27.50	24.50
BADM 25	25	53.00	47.00	41.20	38.30
BADM 37	37	69.40	63.50	57.70	54.80

surface metal case: tin-plated

Blank covers for exact sealing of unused D-Sub cut outs in front- and backpanels.
Size and form are as D-Sub housings.





art. no.	no. of contacts	dim. [mm]		
		A	B	C
BADP 09	9	25.00	31.20	14.70
BADP 15	15	33.30	39.60	14.70
BADP 25	25	47.00	53.30	14.70
BADP 37	37	63.50	69.90	14.70
BADP 50	50	61.10	67.60	14.70

Plastic cover, blank, for blind D-Sub and other connector cutouts in front and rear panels.
Easy to mount with enclosed clamping springs.

material: ABS
flammability: UL 94 V-0
colour: black
clamping spring: steel

D-Sub standard connectors → **I 2 - 4**
Technical data → **I 27 - 28**
Screw fastening → **I 28**
D-Sub connectors /flat cable → **I 11**
D-Sub high density → **I 7**

Screw fastening, mounted

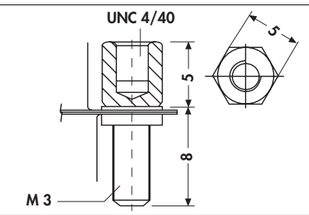
2 screw fastenings incl. spacer, washer, nut

art. no.
... V

Please add a V to the corresponding art. no. ...

Screw fastening, loose

2 separate screw fasteners, with washer and nut

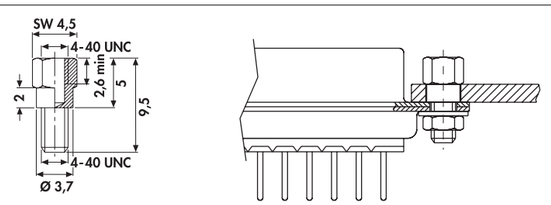


art. no.
V 2

material:
screw - brass nickel-plated; **screw-nut** - steel nickel-plated; **washer** - steel tin-plated

Screw fastening for assembly of cases, separate

2 screw fastenings incl. spacer, washer, nut



art. no.
VG 2

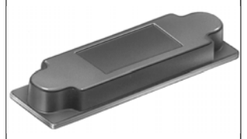
material:
screw and screw-nut - steel nickel-plated; **washer** - steel tin-plated

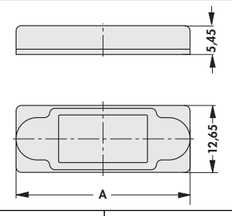
D-Sub standard connectors → I 2 - 4
D-Sub high density → I 7
Accessories for HF → I 29
D-Sub connectors /flat cable → I 11
Technical data → I 27 - 28
D-Sub cut-out cover → I 27

HF-tight caps, HF-seals

HF-tight caps, male headers and female headers

prevent HF-radiation at open interfaces



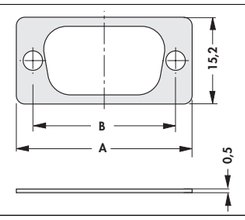


art. no.	no. of contacts	colour	contact	dim. [mm] A
HFK S 09	9	blue	male	32.90
HFK S 15	15	blue	male	41.30
HFK S 25	25	blue	male	55.70
HFK B 09	9	red	female	32.90
HFK B 15	15	red	female	41.30
HFK B 25	25	red	female	55.70

material: ABS plastics UL 94:V-0, nickel-plated on the inside
flammability: <1 Ω
temperature range: -25 °C ... +70 °C

HF-seals

as seal between plug and housing



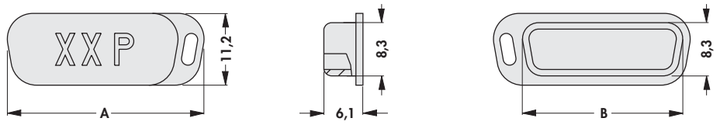
art. no.	no. of contacts	dim. [mm] A	B
HFD 09	9	30.80	25.00
HFD 15	15	39.40	33.30
HFD 25	25	53.40	47.00
HFD 37	37	70.70	63.50

material: silicone, filling of silvered copper particles

Extremely low contact resistance.

Dust protection caps

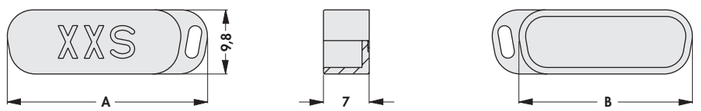
For male headers



art. no.	no. of contacts	dim. [mm] A	dim. [mm] B
SSK S 09	9	22.50	18.20
SSK S 15	15	30.60	26.50
SSK S 25	25	43.70	39.80
SSK S 37	37	60.30	56.20

material: polyethylere

For female headers



art. no.	no. of contacts	dim. [mm] A	dim. [mm] B
SSK B 09	9	22.30	17.00
SSK B 15	15	30.60	25.00
SSK B 25	25	44.10	38.65
SSK B 37	37	60.70	55.30

material: polyethylere

Technical data → I 29 - 30
D-Sub connectors /flat cable I 11
D-Sub mixed layout I 13 -

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D-Sub standard connectors with mounting bracket

Technische Daten → G 21 - 22
D-Sub für Filtersteckverbinder → G 6
D-Sub für Bandkabel → G 7
D-Sub Crimp → G 9 - 10

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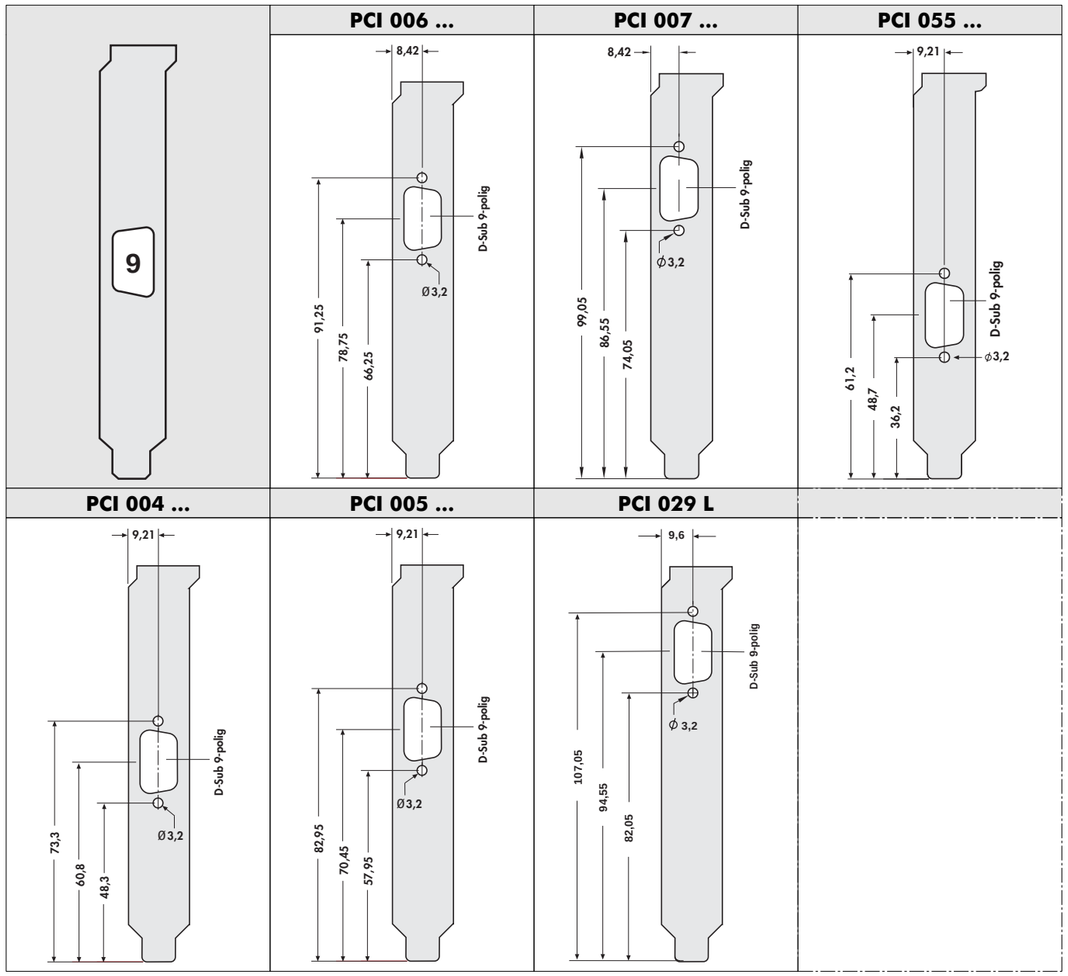
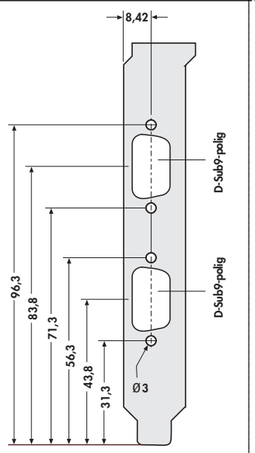
Brackets for PC



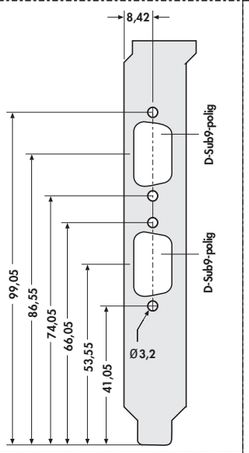
If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

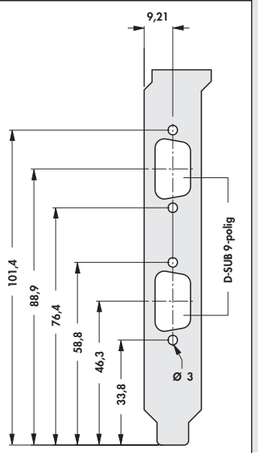
PCI 011 ...



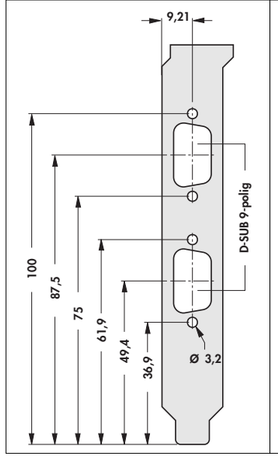
PCI 013 ...



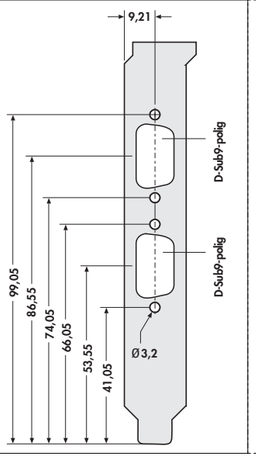
PCI 039 ...



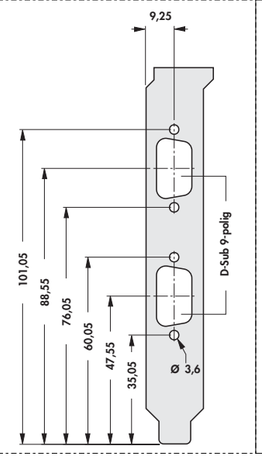
PCI 041 ...



PCI 012 ...



PCI 040 O



please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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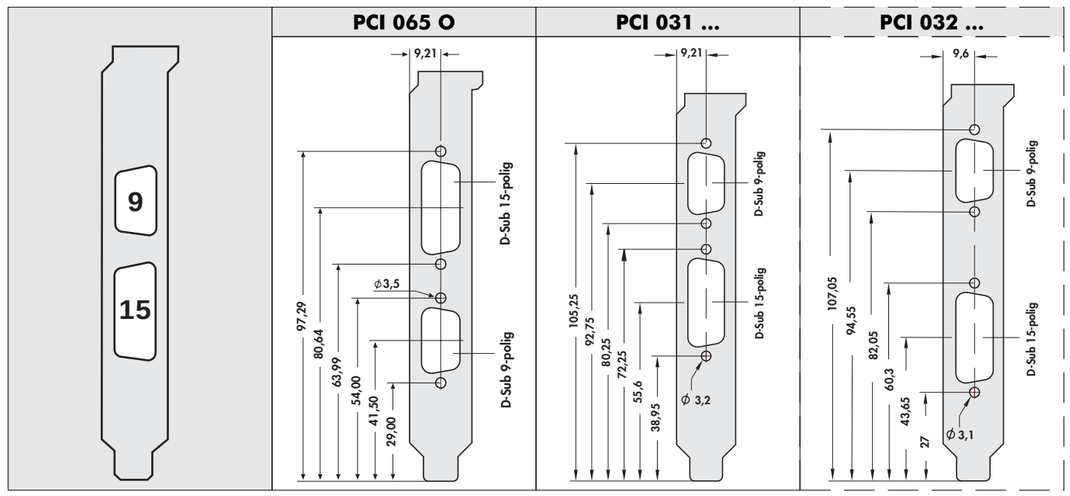
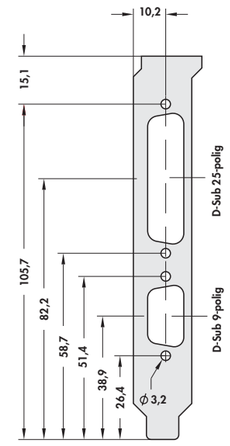
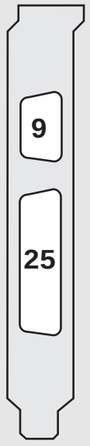
Brackets for PC



If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

PCI 033 ...			
			

please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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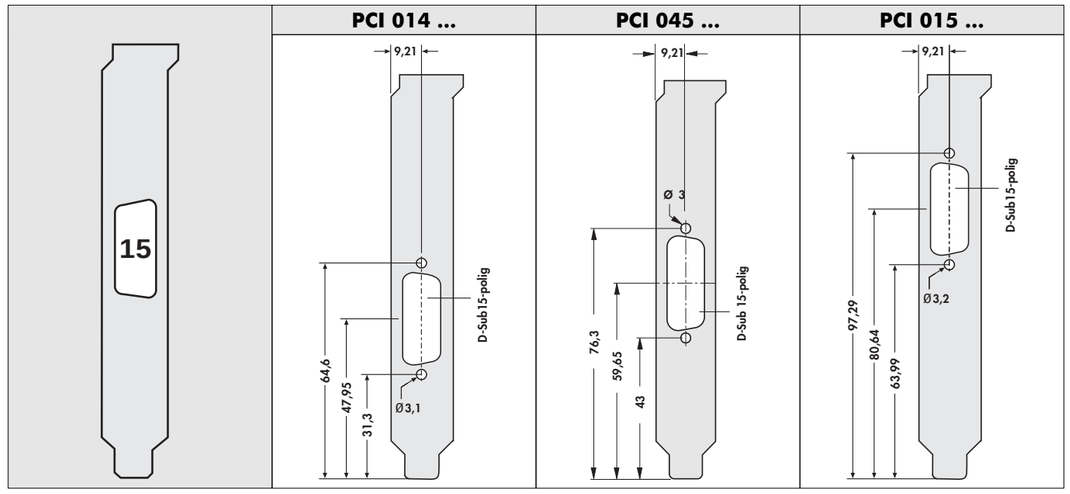
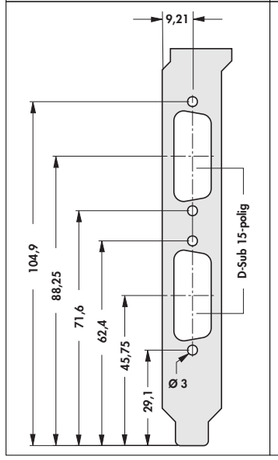
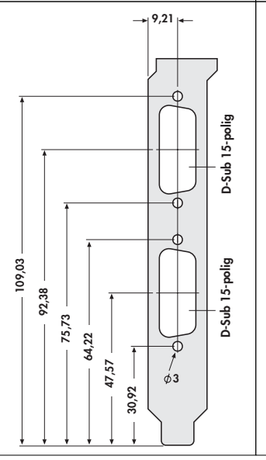
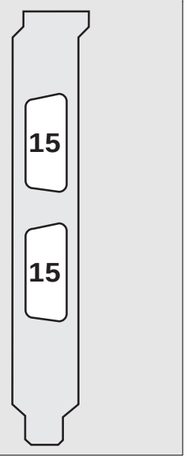
Brackets for PC



If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

PCI 047 O	PCI 071 O		
			

please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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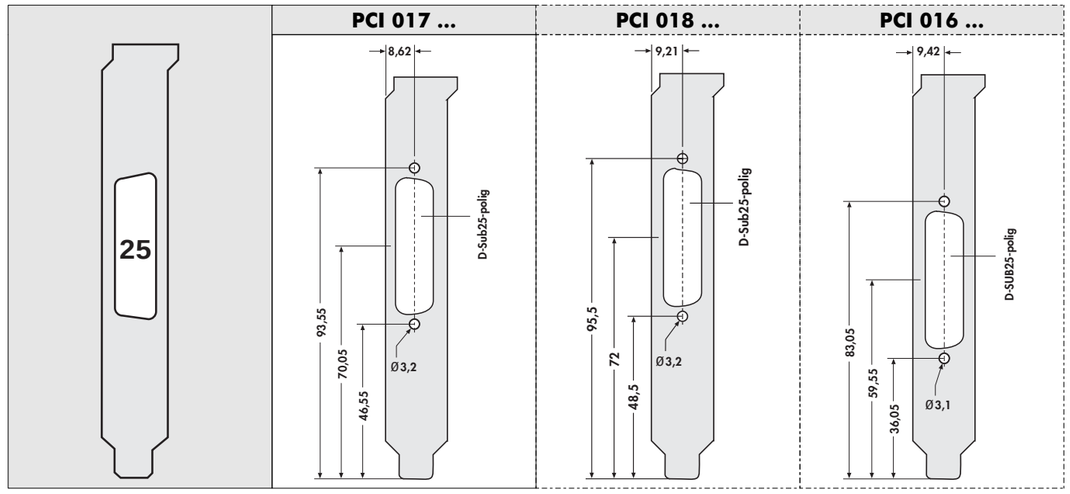
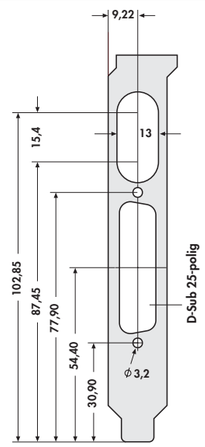
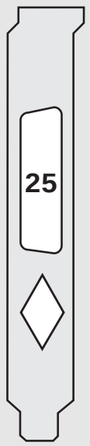
Brackets for PC



If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

PCI 072 O			
			

please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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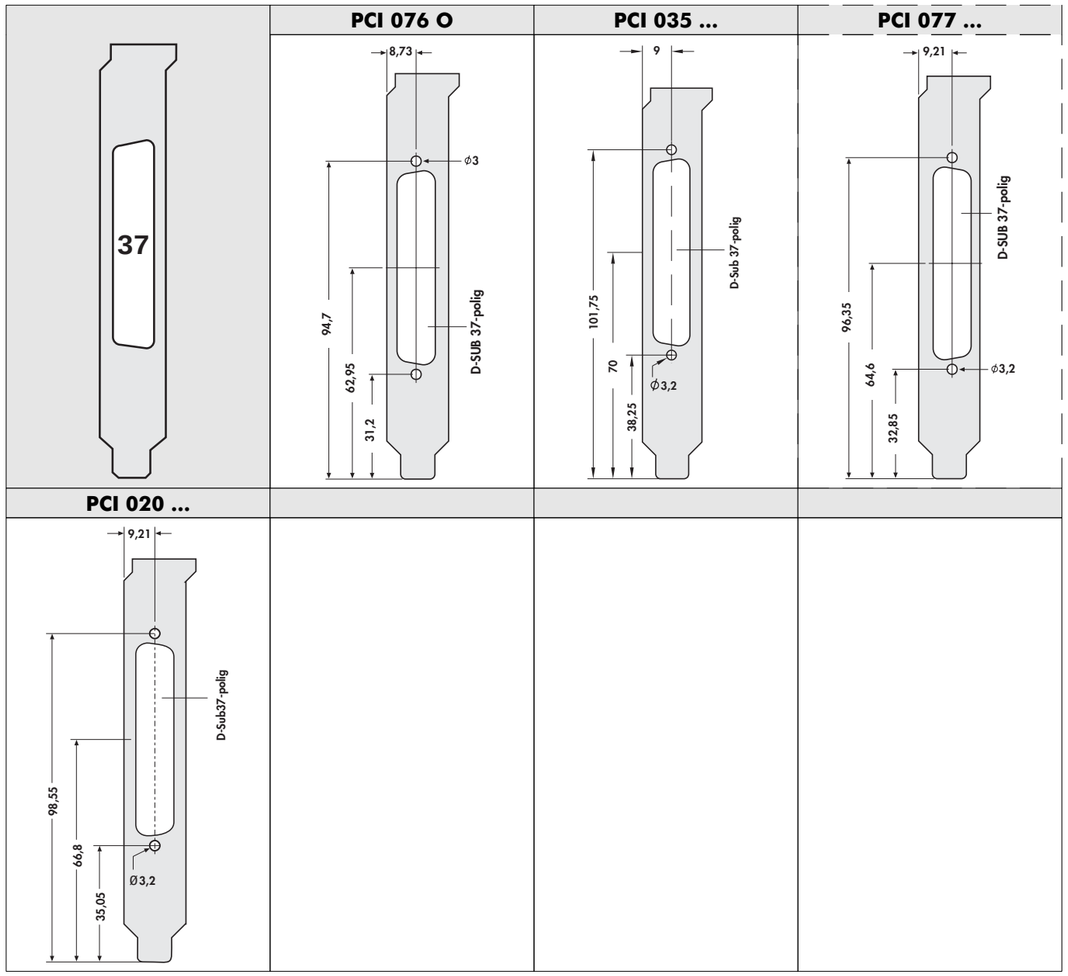
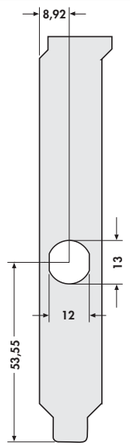
Brackets for PC



If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

PCI 021 O			
			

please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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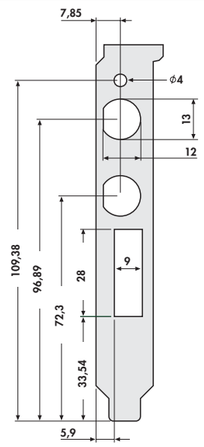
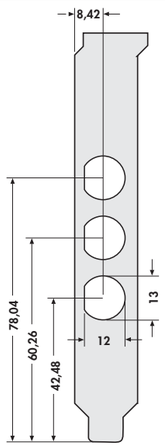
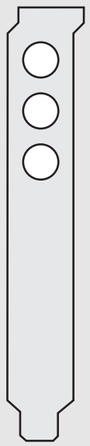
Brackets for PC

	PCI 083 L		
			

If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

PCI 023 ...			
			

please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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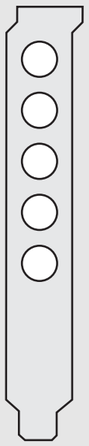
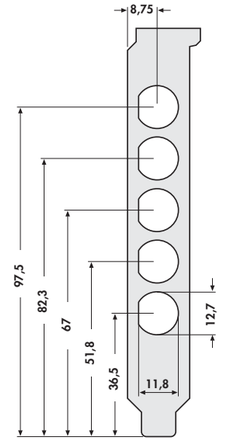
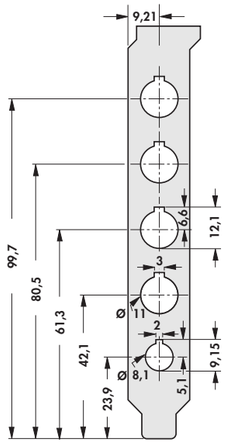
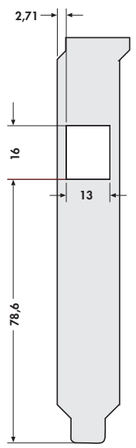
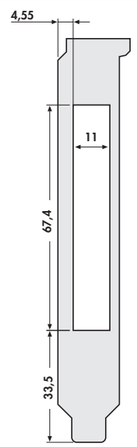
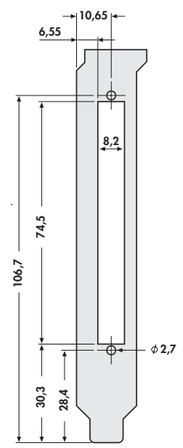
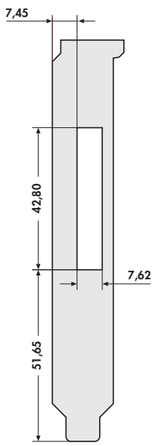
Brackets for PC

	PCI 098 L	PCI 050 O	
			

If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

PCI 027 L	PCI 105 L	PCI 104 O	
			
PCI 106 L			
			

please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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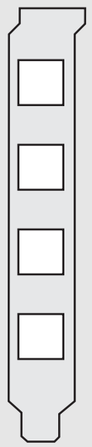
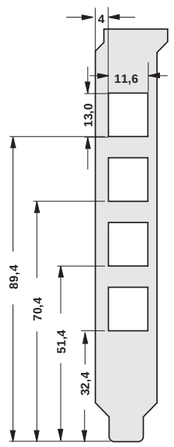
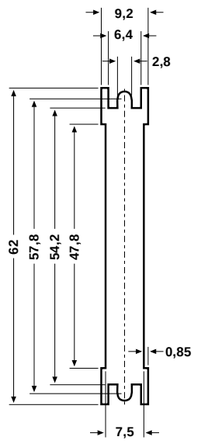
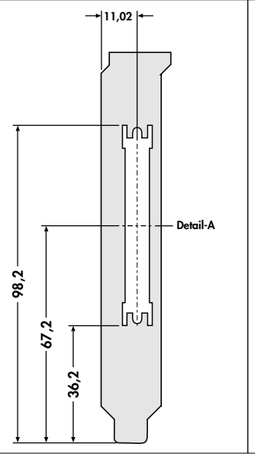
Brackets for PC

	PCI 051 ...		
			

If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

Detail - A	PCI 028 L		
			

please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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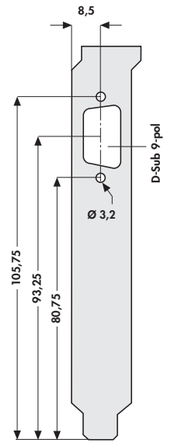
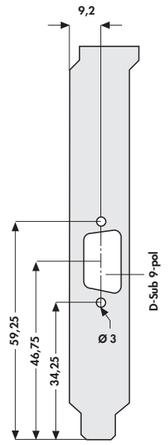
Brackets for PC

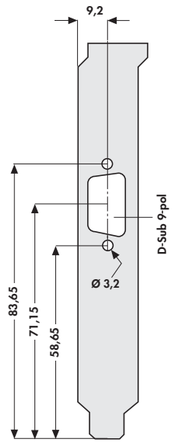
KHPC 002 O



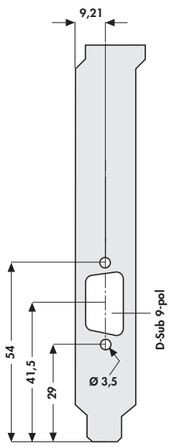
KHPC 092 ...



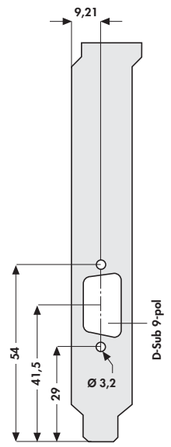
KHPC 003 ...



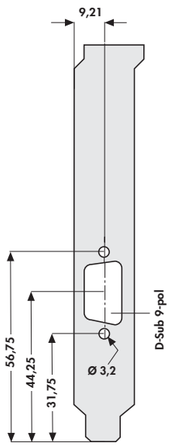
KHPC 007 O



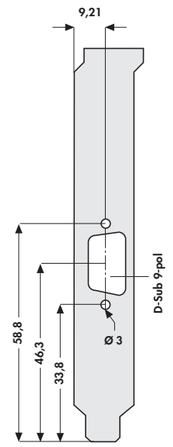
KHPC 011 O



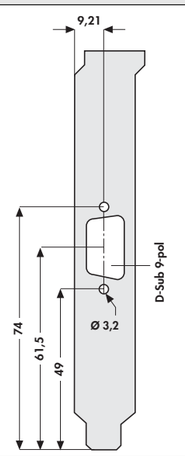
KHPC 004 O



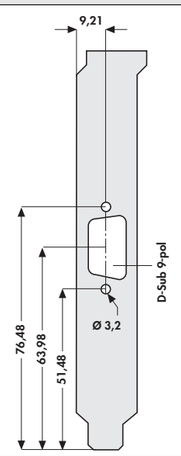
KHPC 013 O



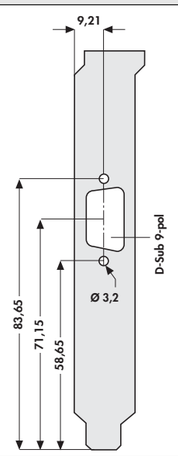
KHPC 010 ...



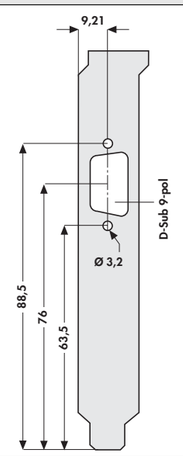
KHPC 093 L



KHPC 094 O



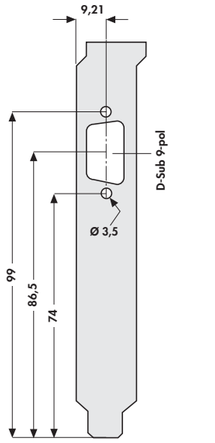
KHPC 096 O



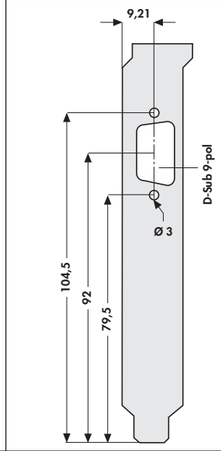
If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

KHPC 008 O



KHPC 014 O



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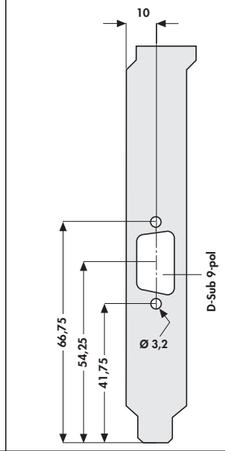

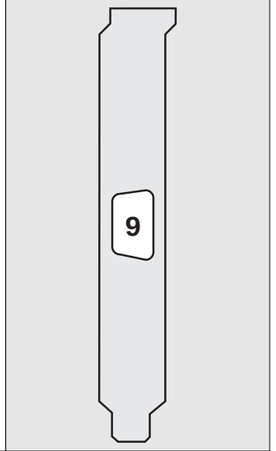

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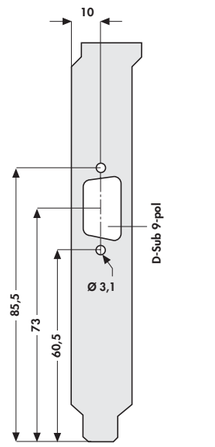
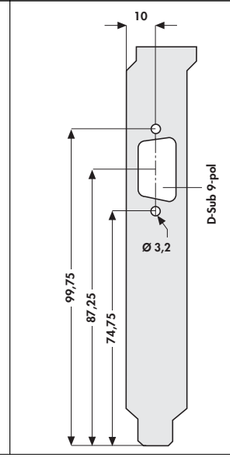
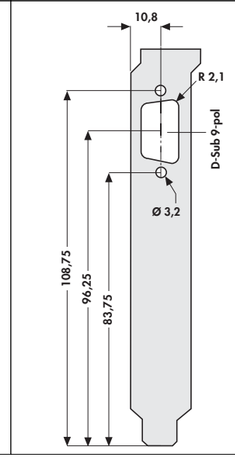


KHPC 017 ...



KHPC 102 O



please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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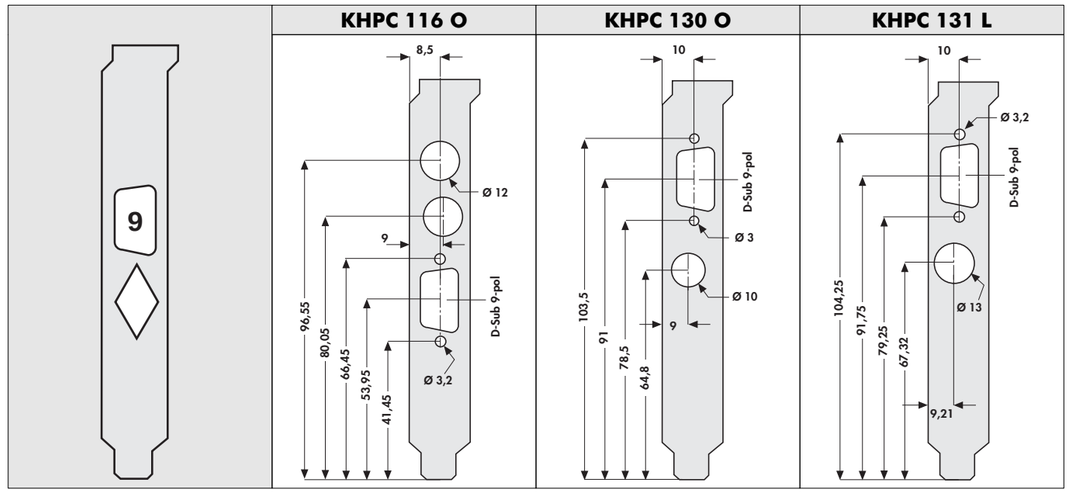
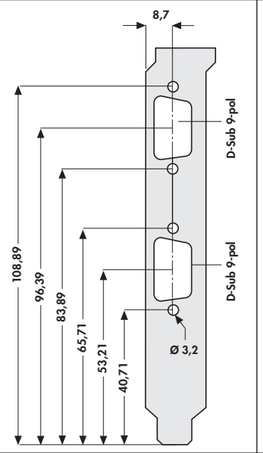
Brackets for PC



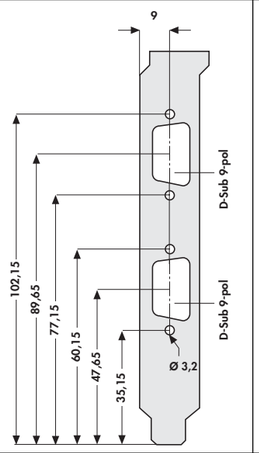
If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

KHPC 144 O



KHPC 142 O



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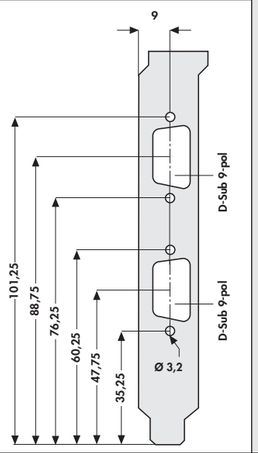
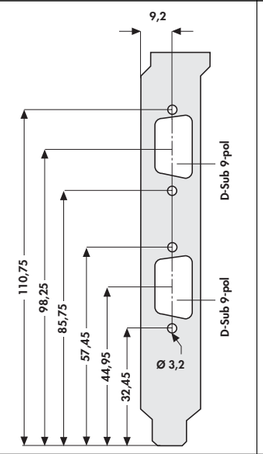


KHPC 138 O



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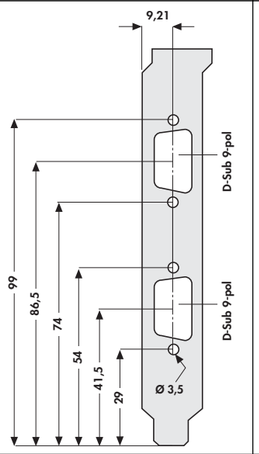
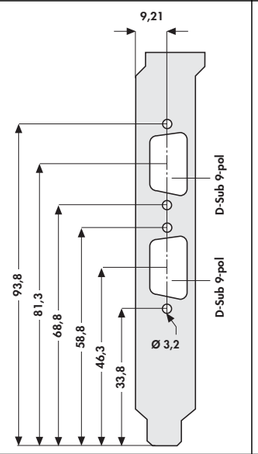


KHPC 141 O



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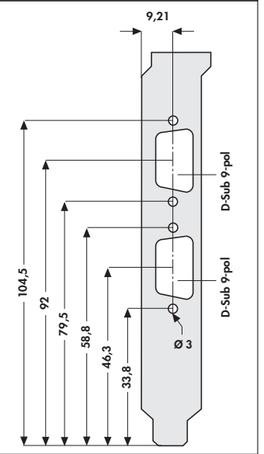

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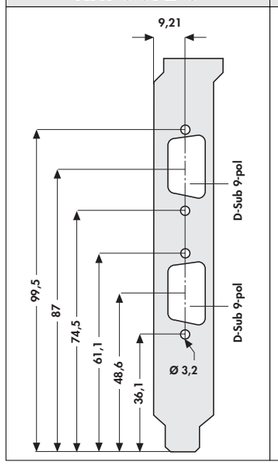

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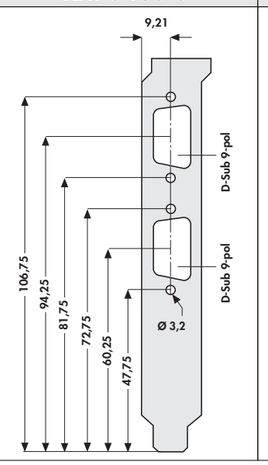
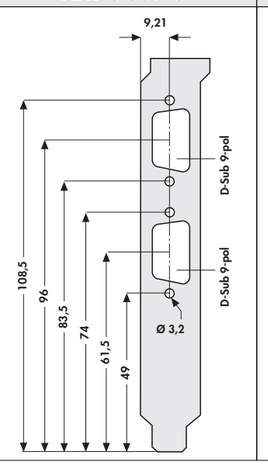
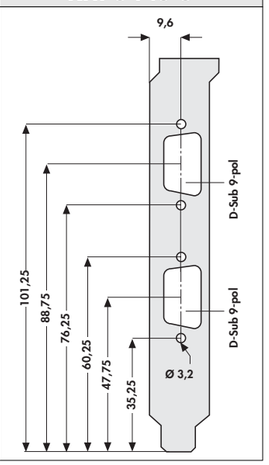


KHPC 009 O



KHPC 143 O



please indicate: **... fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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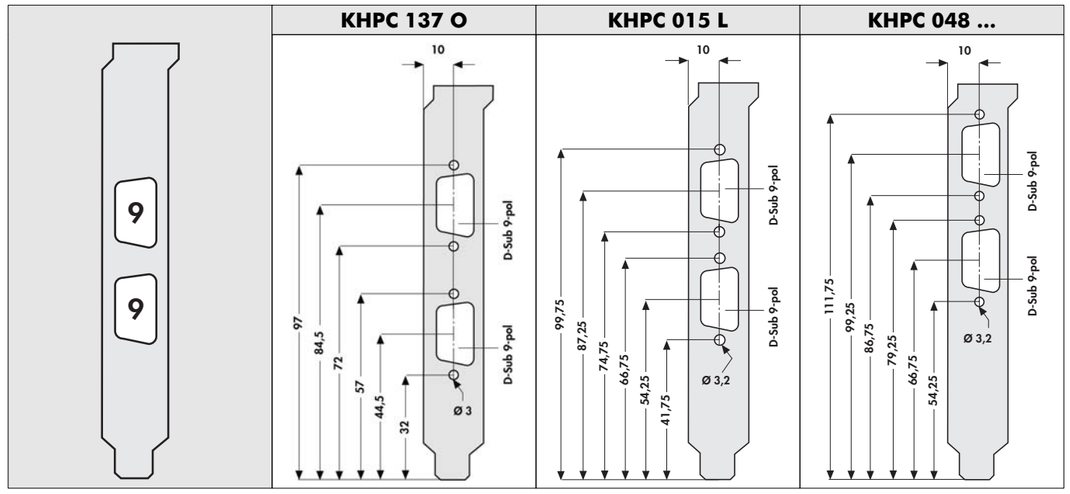
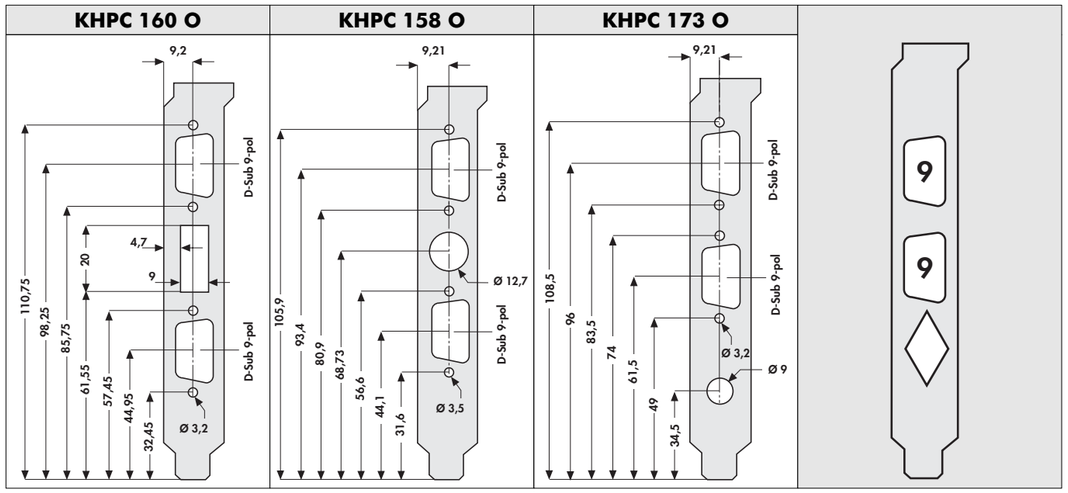
Brackets for PC



If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC



please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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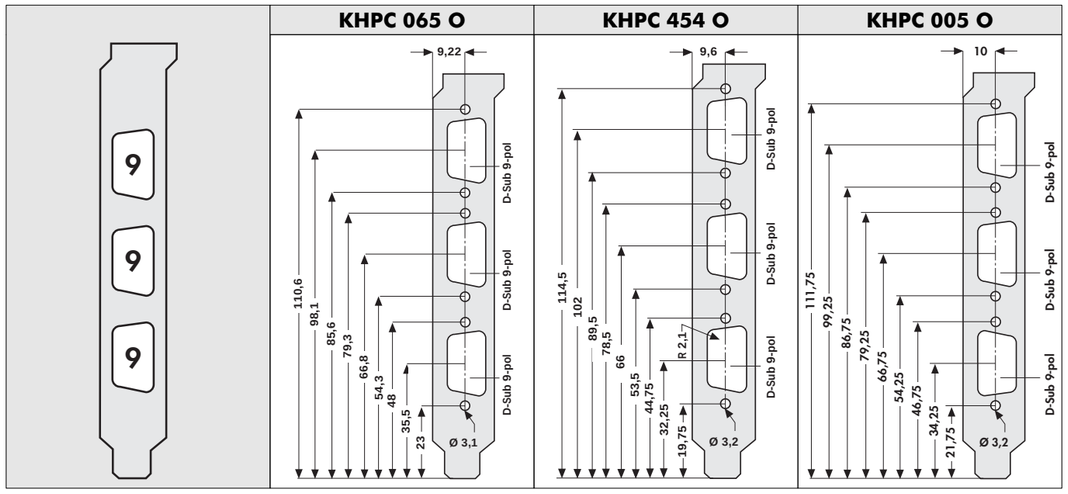
Brackets for PC



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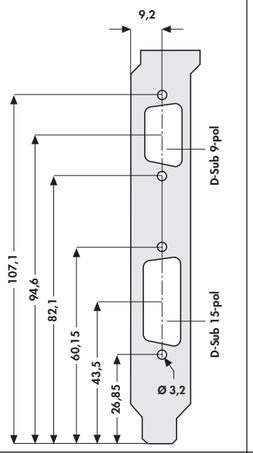
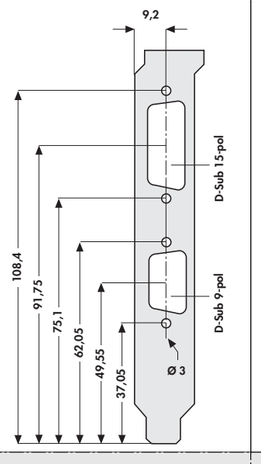
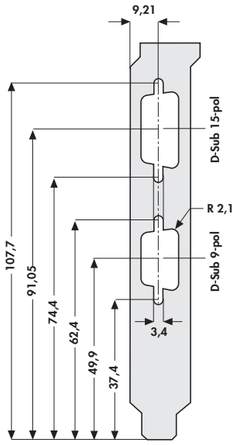
KHPC 179 O	KHPC 177 ...	KHPC 178 O	
			
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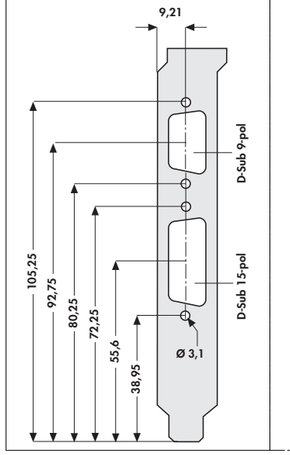			

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O = bracket without fixing tab

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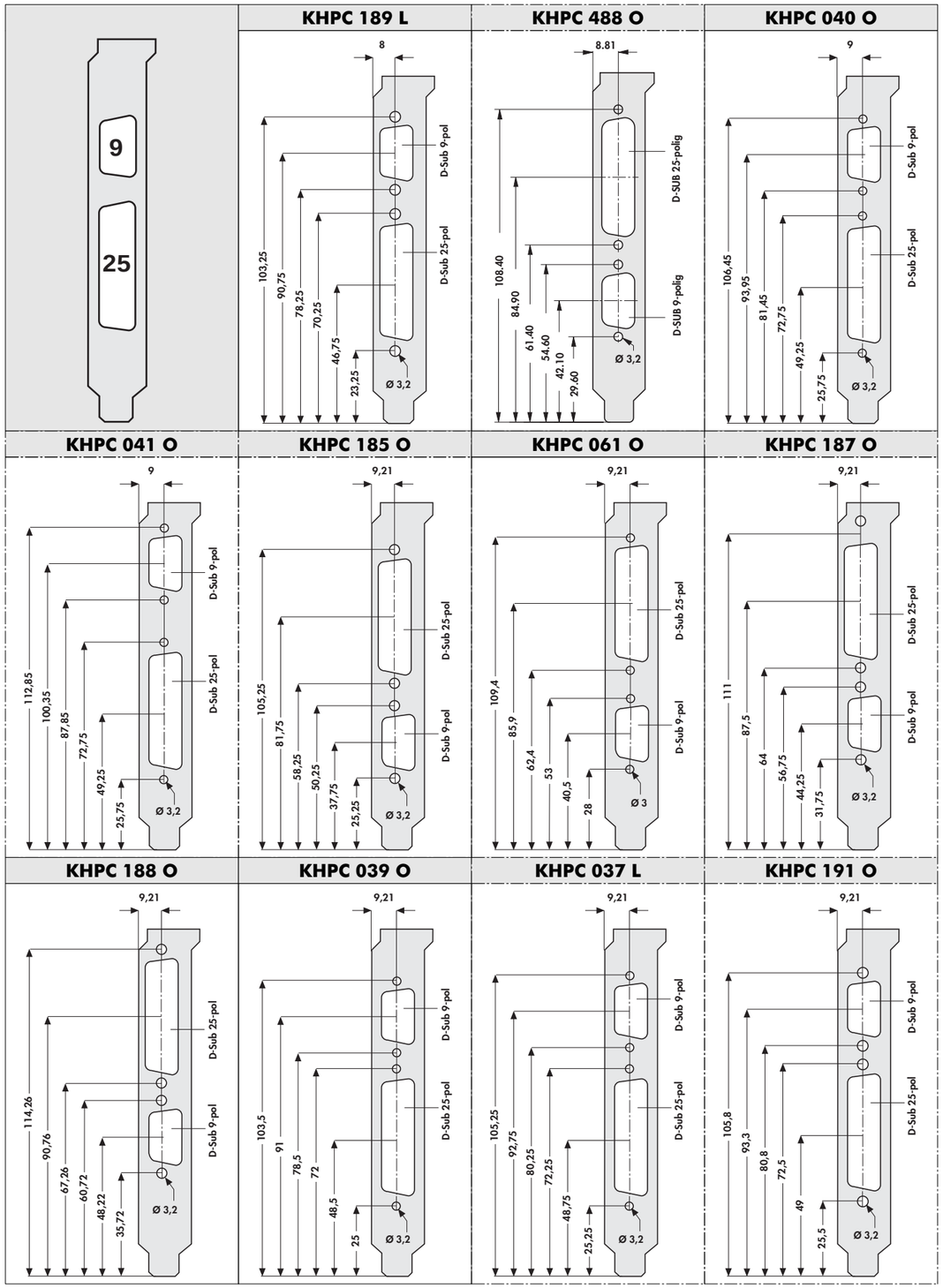
Brackets for PC



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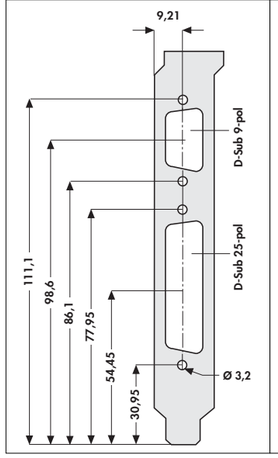
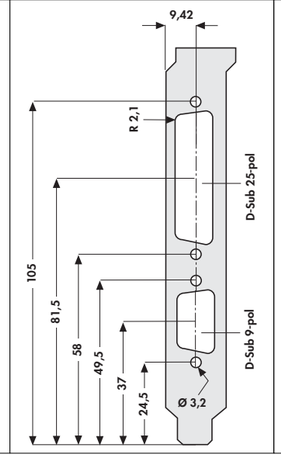
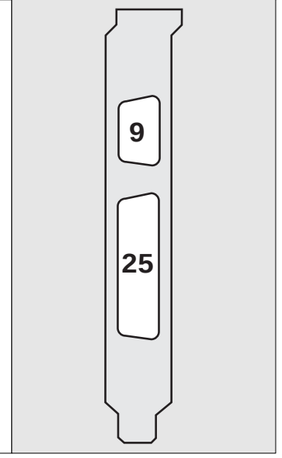
Brackets for PC

KHPC 038 O	KHPC 078 ...		
			

please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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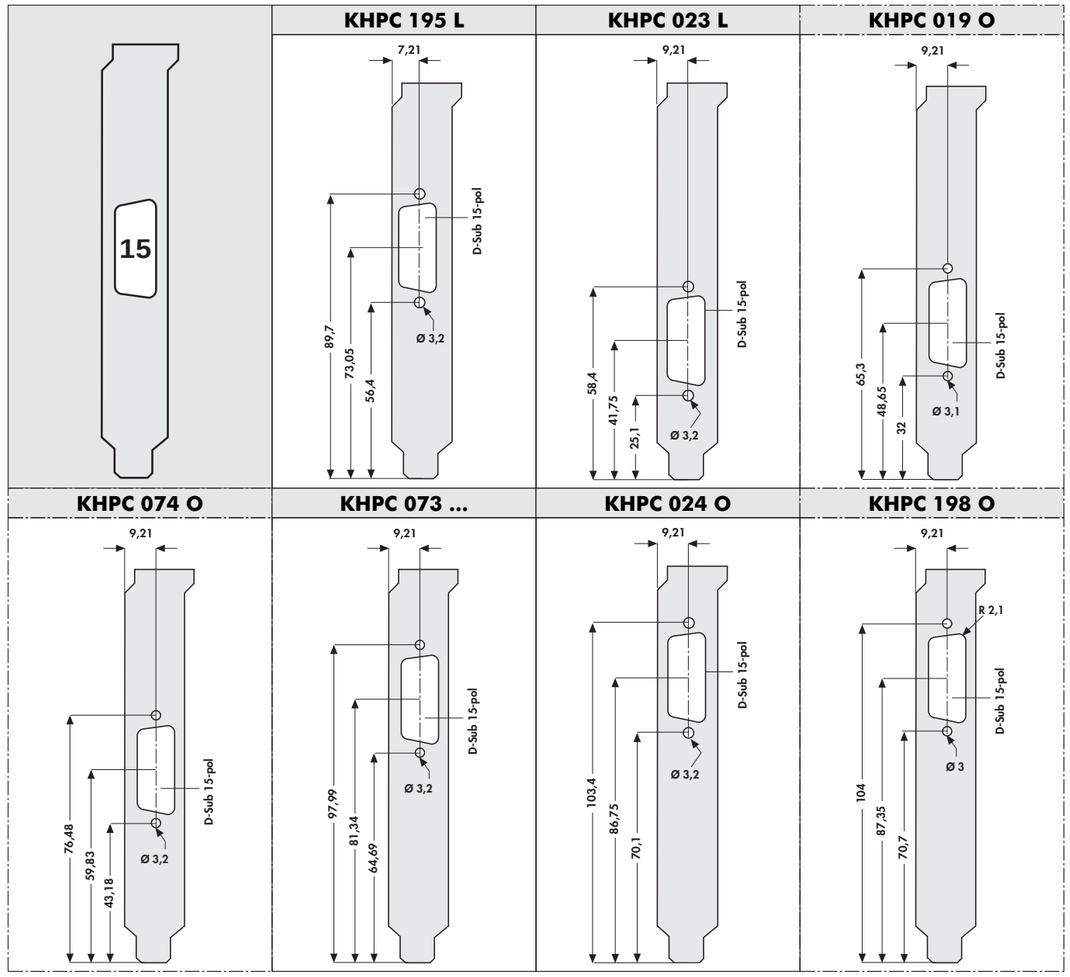
Brackets for PC



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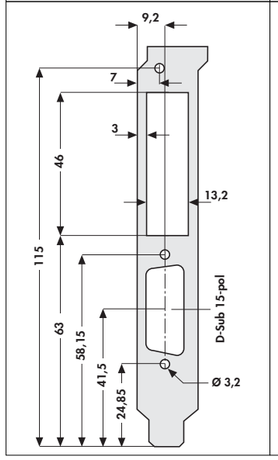
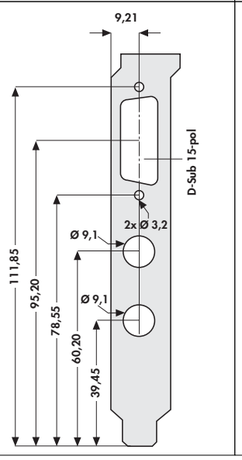
Brackets for PC

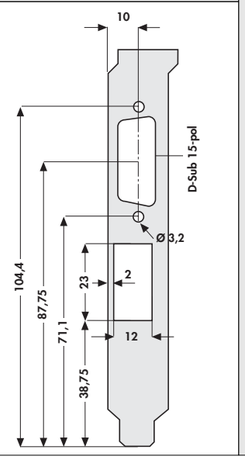
KHPC 200 O

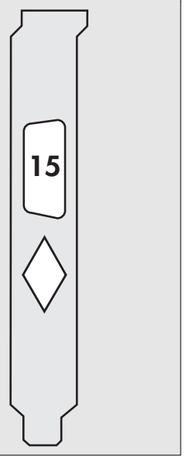


KHPC 455 L



KHPC 218 O





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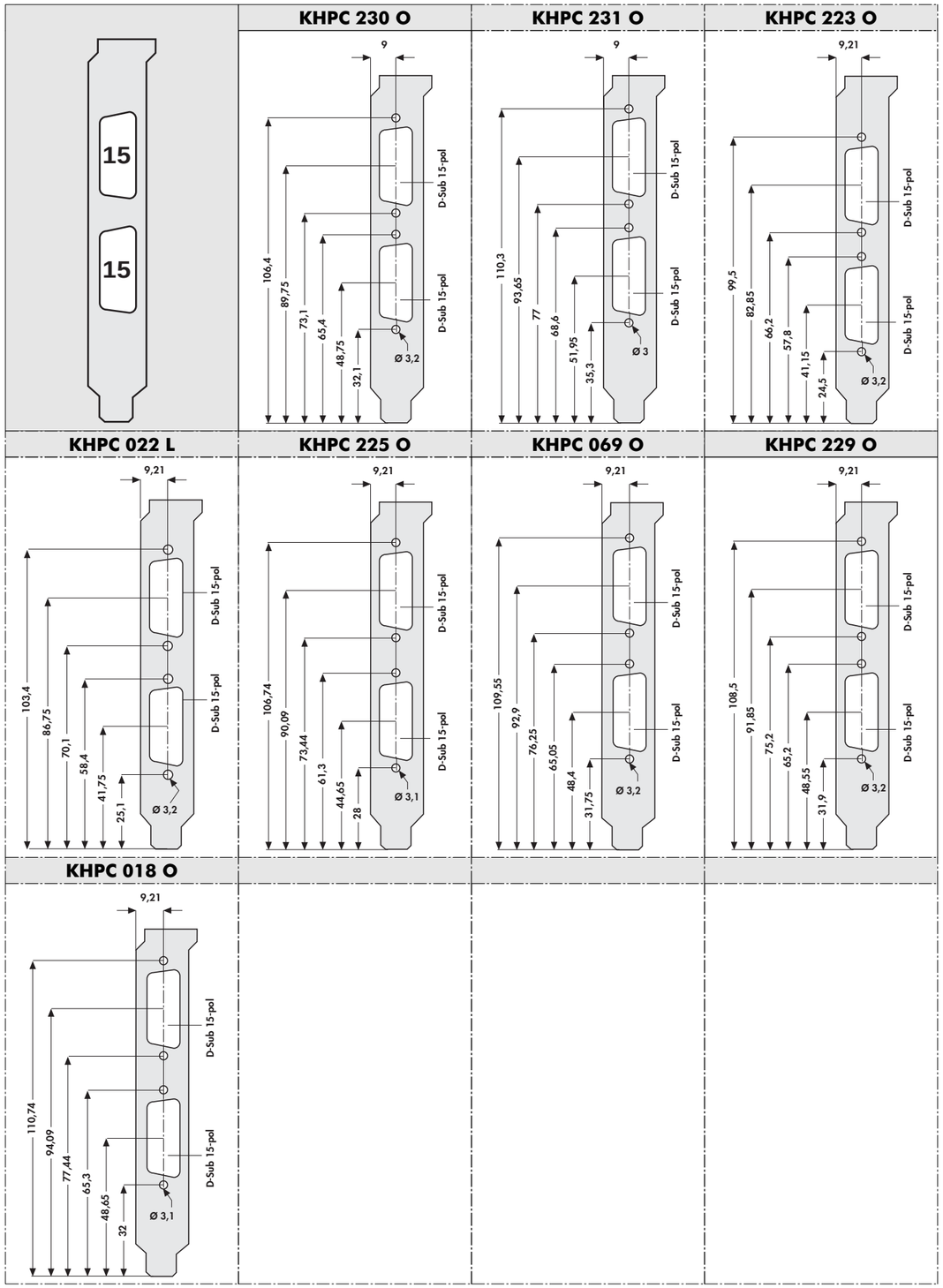
Brackets for PC



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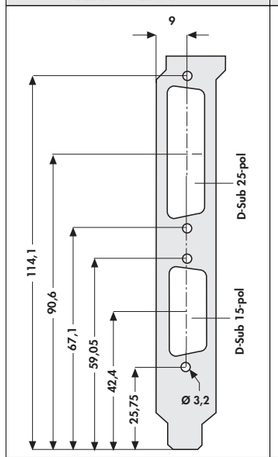
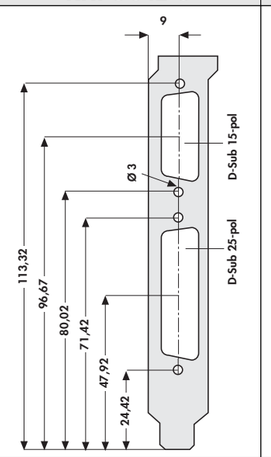
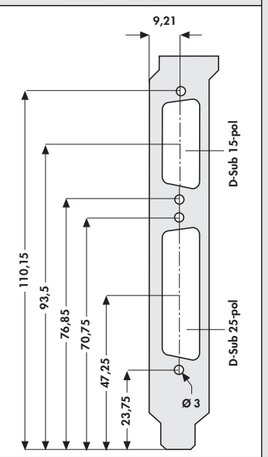
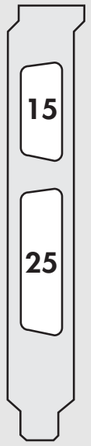
KHPC 241 O	KHPC 042 O	KHPC 242 O	
			
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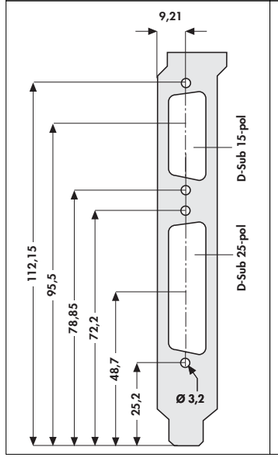			

please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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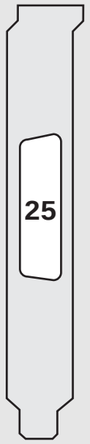
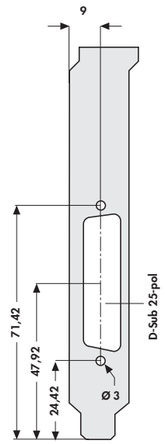
Brackets for PC



KHPC 243 O



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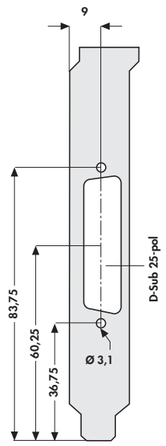

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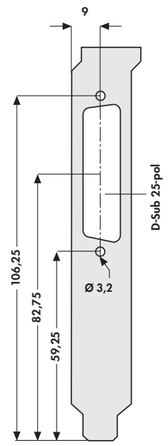

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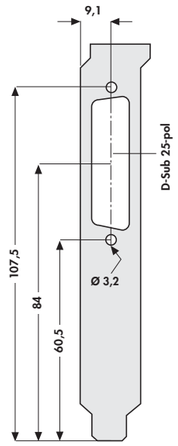

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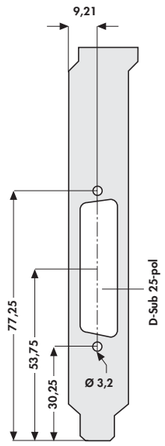

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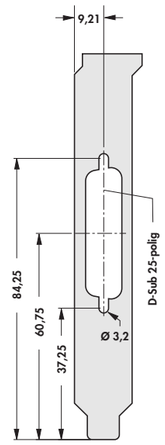

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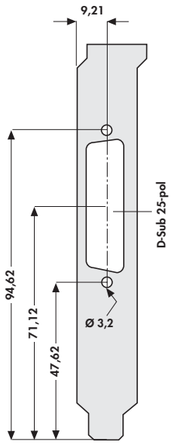

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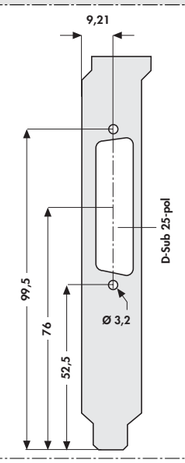

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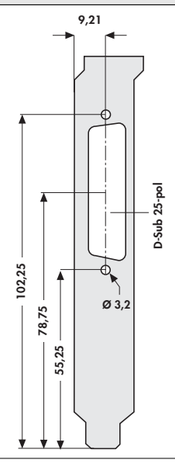

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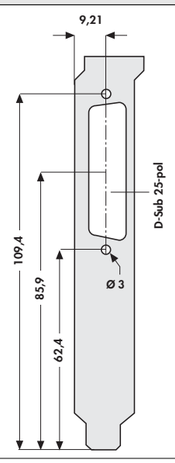

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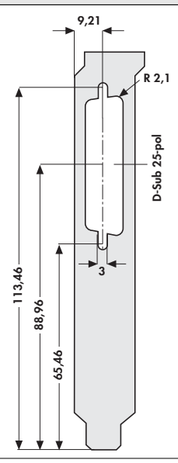
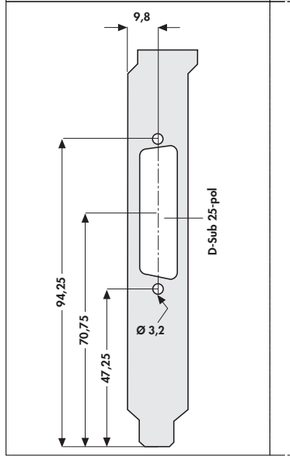
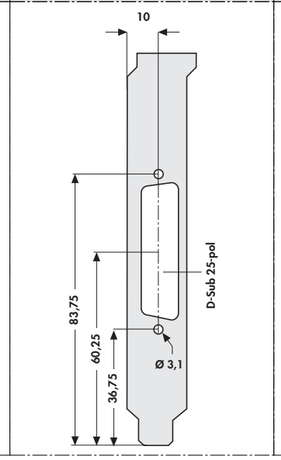
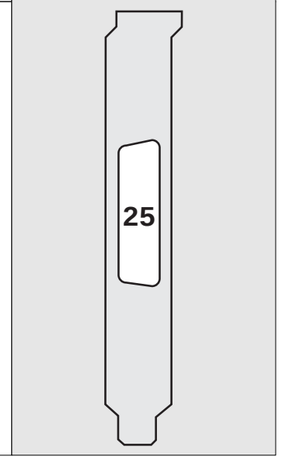


If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

KHPC 052 L	KHPC 246 O		
			

please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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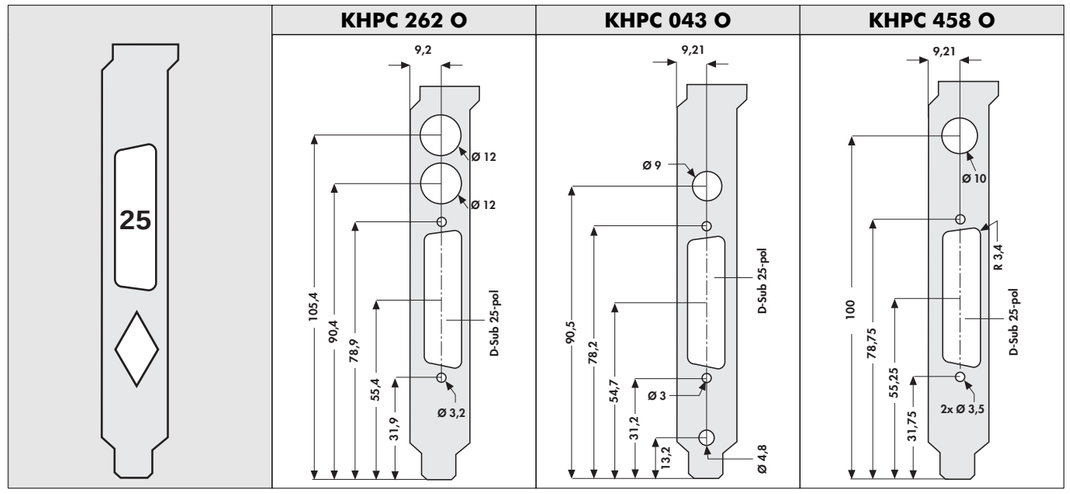
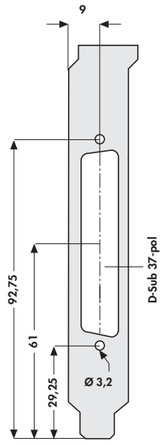
Brackets for PC



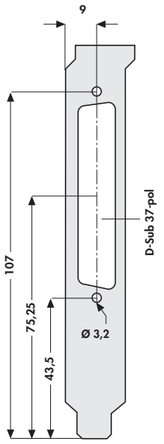
If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

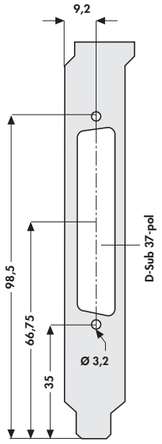
KHPC 058 O

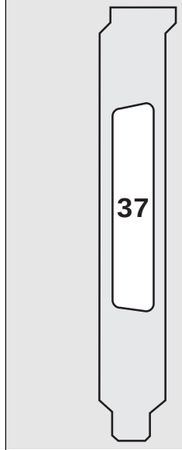


KHPC 035 O

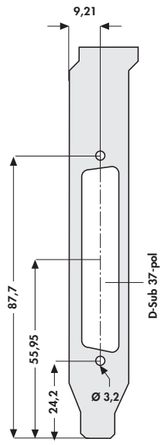


KHPC 277 O

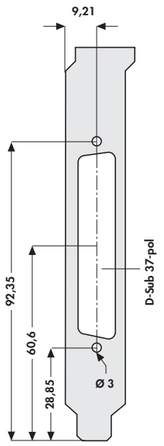




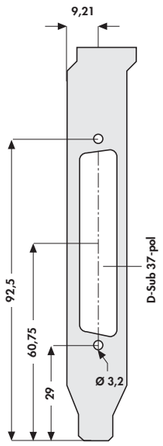
KHPC 267 ...



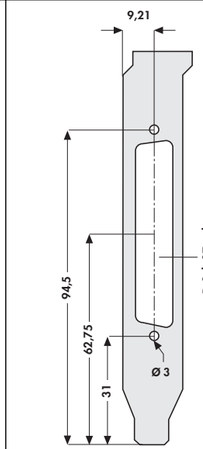
KHPC 033 O



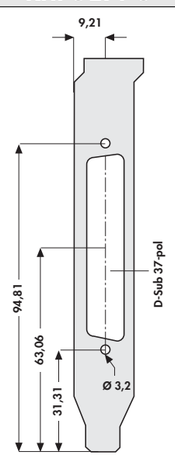
KHPC 269 O



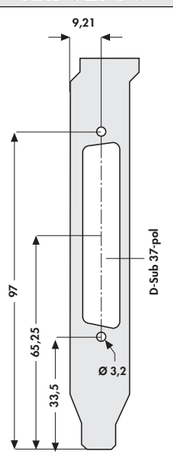
KHPC 270 O



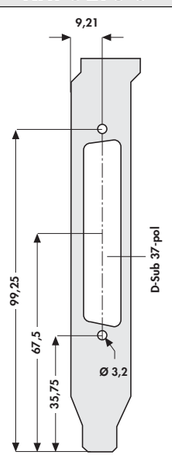
KHPC 271 O



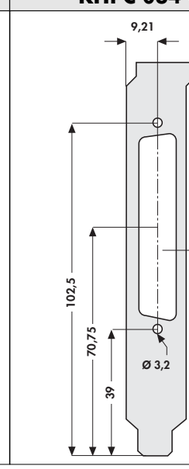
KHPC 274 O



KHPC 278 O



KHPC 034 O



please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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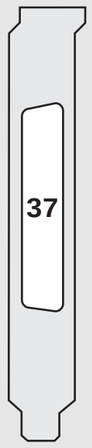
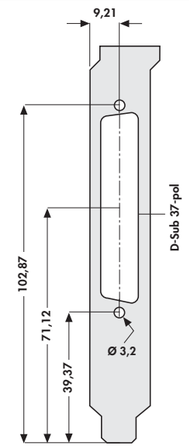
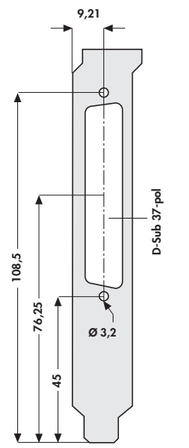
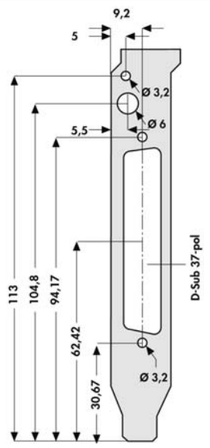
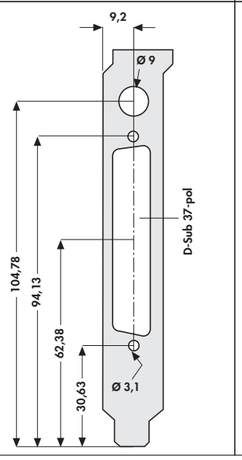
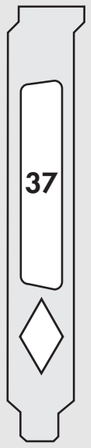
Brackets for PC

	KHPC 031 ...	KHPC 032 O	
			

If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

KHPC 295 O	KHPC 029 O		
			

please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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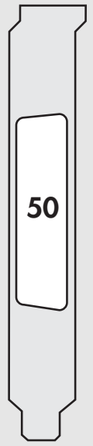
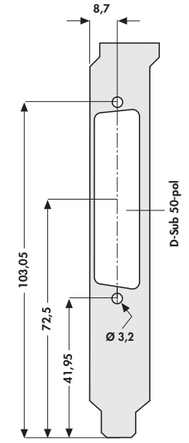
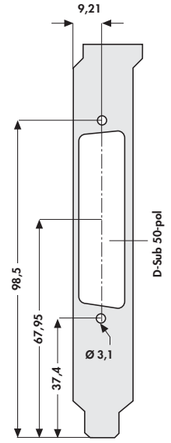
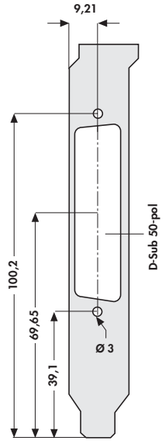
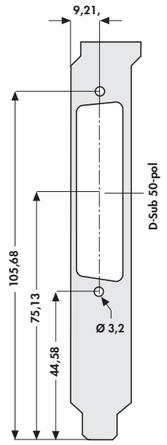
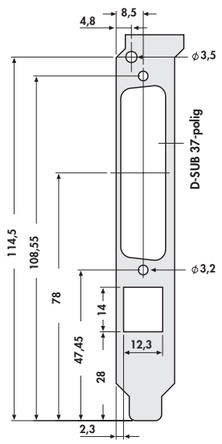
Brackets for PC

	KHPC 036 ...	KHPC 051 O	KHPC 083 O
			
KHPC 308 L			
			

If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

KHPC 530 O			
			

please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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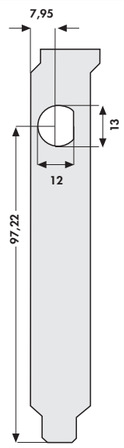
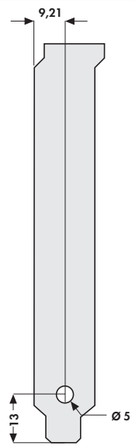
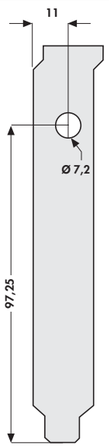
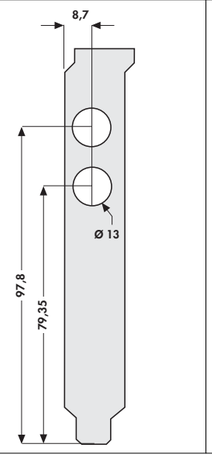
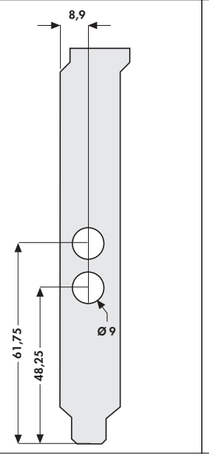
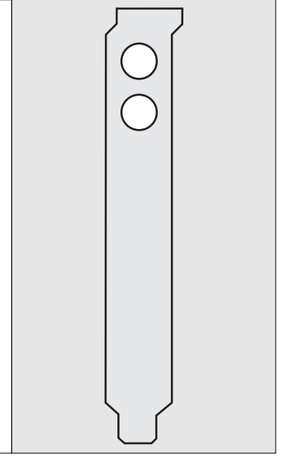
Brackets for PC

	KHPC 312 O	KHPC 310 L	KHPC 313 L
			

If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

KHPC 325 O	KHPC 320 L		
			

please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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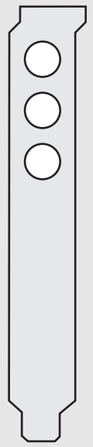
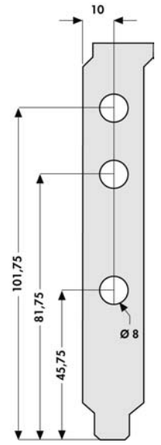
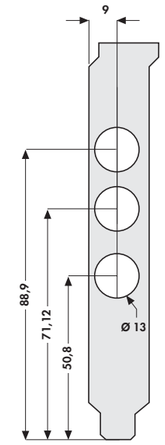
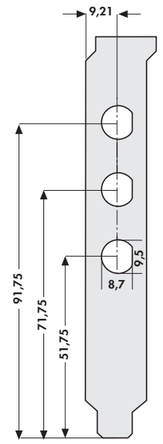
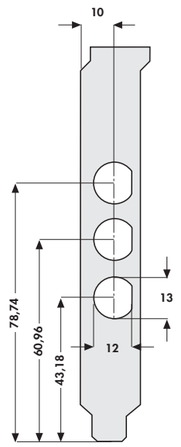
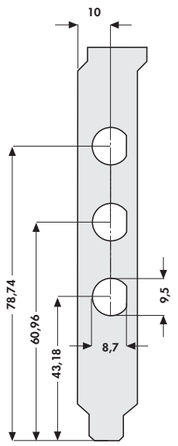
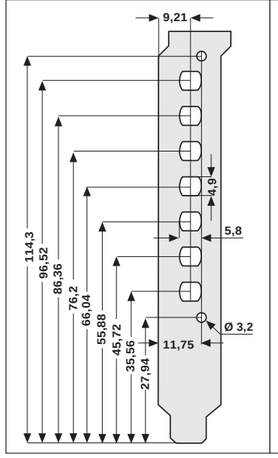
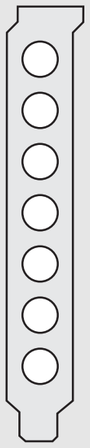
Brackets for PC

	KHPC 333 L	KHPC 335 L	KHPC 463 O
			
KHPC 044 L	**KHPC 332 L**		
			

If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

KHPC 354 L			
			

please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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Brackets for PC

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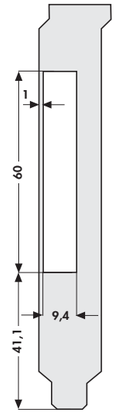
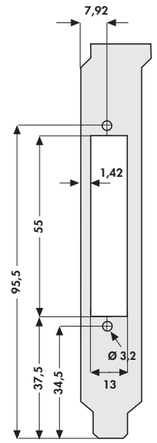
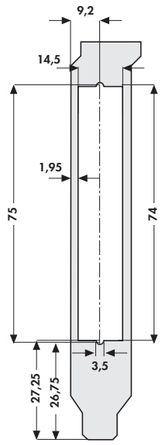
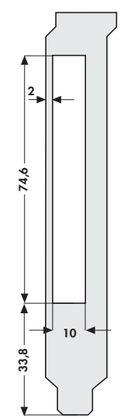
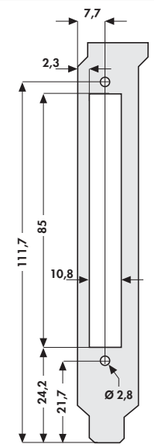
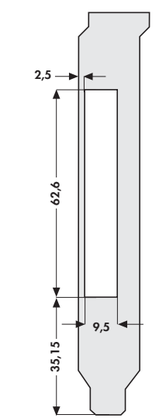
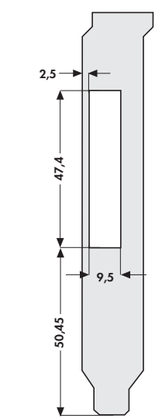
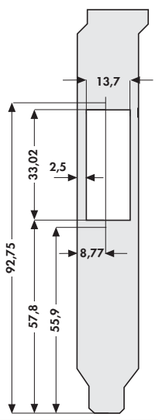
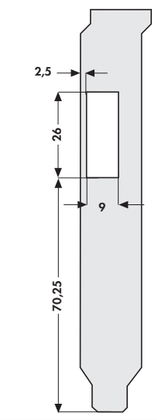
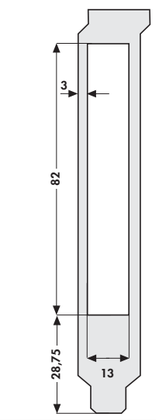
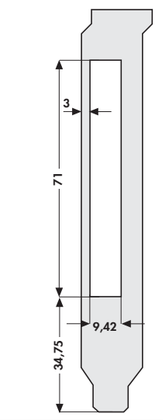
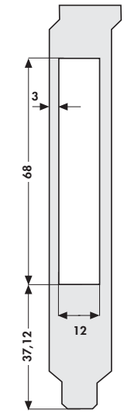
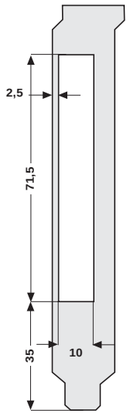
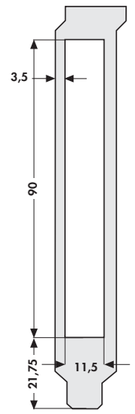
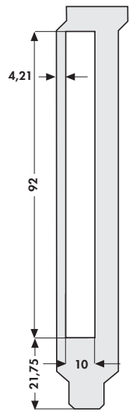
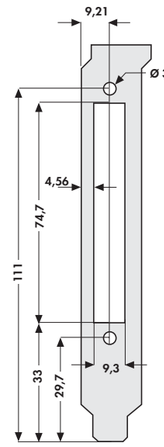
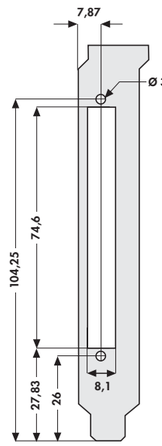
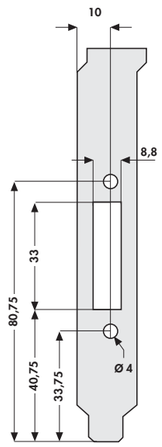
			

KHPC 390 L	KHPC 394 ...	KHPC 380 L	KHPC 371 L
			

KHPC 367 L	KHPC 365 L	KHPC 085 L	KHPC 384 L
			

If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Brackets for PC

KHPC 062 L	KHPC 059 L	KHPC 398 ...	
			
KHPC 399 L	**KHPC 391 O**	**KHPC 086 O**	**KHPC 366 O**
			

please indicate: ... **fixing tab**
L = bracket with fixing tab
O = bracket without fixing tab

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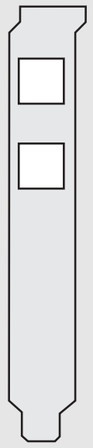
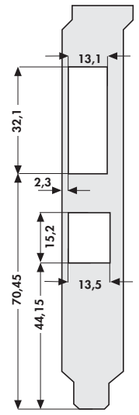
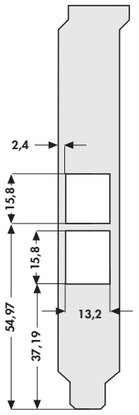
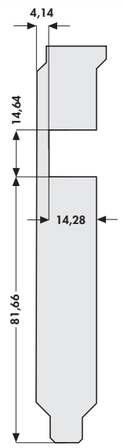
Brackets for PC

	KHPC 404 L	KHPC 407 L	
			

If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

KHPC 439 O			
			

please indicate: ... fixing tab
L = bracket with fixing tab
O = bracket without fixing tab

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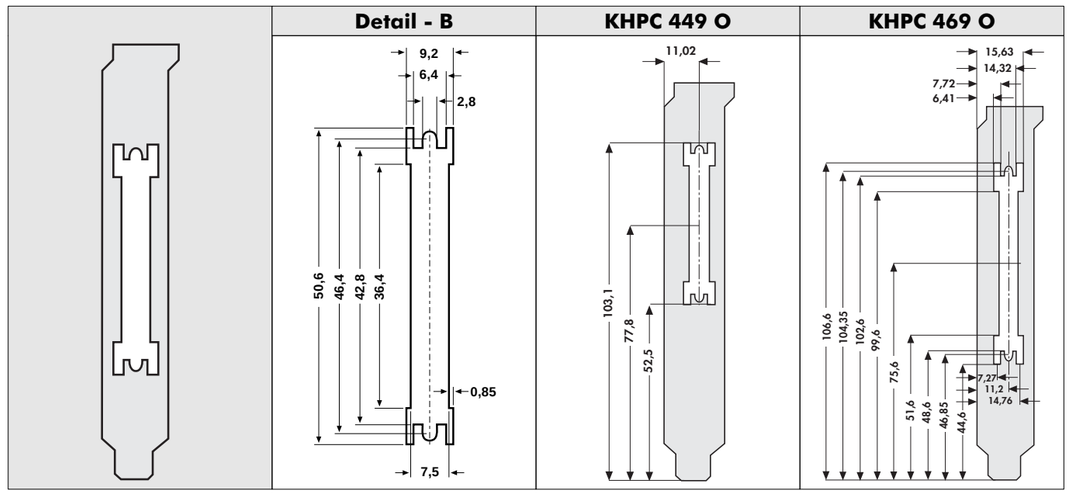
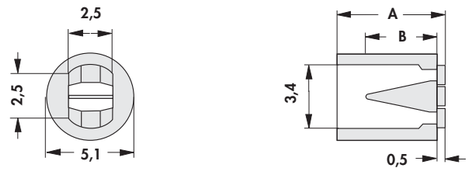
Brackets for PC



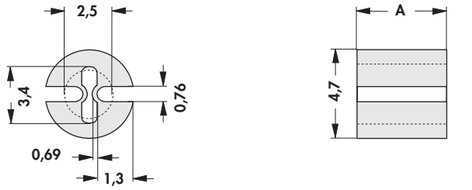
If you do not find a suitable bracket, please use the PCI / KHPC design sheet at the end of section "K".

Spacers and mounting strips for LED

universal mount for LED ∅ 3 mm and 5 mm, self retaining

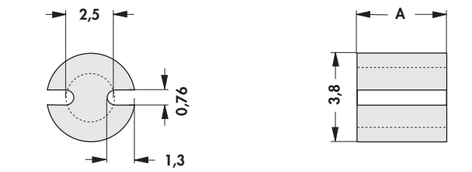


art. no.	dim. [mm] A	dim. [mm] B	art. no.	dim. [mm] A	dim. [mm] B
MAH 31	3.10	1.50	**MAH 71**	7.10	4.70
MAH 41	4.10	1.50	**MAH 81**	8.10	4.70
MAH 51	5.10	1.50	**MAH 89**	8.90	4.70
MAH 61	6.10	1.50	**MAH 99**	9.90	7.90



art. no.	dim. [mm] A	art. no.	dim. [mm] A
MAH 401	1.00	**MAH 406**	6.00
MAH 402	2.00	**MAH 407**	7.00
MAH 403	3.00	**MAH 408**	8.00
MAH 404	4.00	**MAH 409**	9.00
MAH 405	5.00	**MAH 410**	10.00

for LED ∅ 3 mm, thin mount



art. no.	dim. [mm] A	art. no.	dim. [mm] A
MAH 301	1.00	**MAH 306**	6.00
MAH 302	2.00	**MAH 307**	7.00
MAH 303	3.00	**MAH 308**	8.00
MAH 304	4.00	**MAH 309**	9.00
MAH 305	5.00	**MAH 310**	10.00

material: PVC blend, black
temperature range: -40 °C ... +85 °C
flammability: UL 94 V-0

Spacers & mounting strips → **L 2 - 3**
LED-hold.for front panel assembly → **L 4**
Technical data of the LEDs → **L 12**
Light pipes for SMDs → **L 9 - 11**
LED-holders for PCB assembly → **L 5 - 8**
Sockets for LED → **F 11 - 12**

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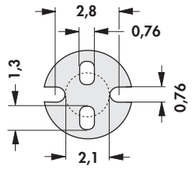
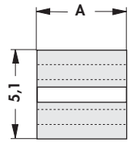
Spacers and mounting strips for LED

for LED Ø 5 mm, self retaining





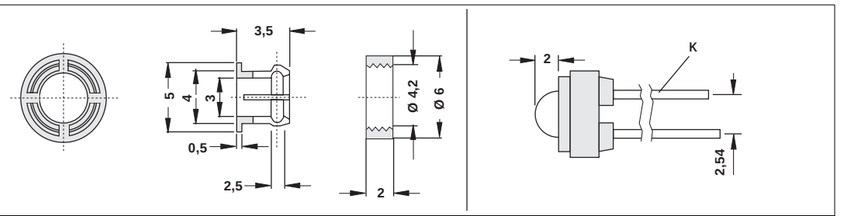
art. no.	dim. [mm] A	art. no.	dim. [mm] A
MAH 501	1.00	**MAH 506**	6.00
MAH 502	2.00	**MAH 508**	8.00
MAH 503	3.00	**MAH 509**	9.00
MAH 504	4.00	**MAH 510**	10.00
MAH 505	5.00		

material: PVC blend, black
temperature range: -40 °C ... +85 °C
flammability: UL 94 V-0

Spacers & mounting strips → L 2 - 3
LED-holders for PCB assembly → L 5 - 8
Technical data of the LEDs → L 12
Light pipes for SMDs → L 9 - 11
Light pipes for SMDs → L 9 - 11
Sockets for LED → F 11 - 12
LED-hold.for front panel assembly → L 4

LED-holders for front panel assembly

suitable for 3 mm diodes with a collar height of 0.6 mm

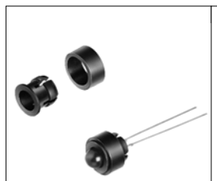


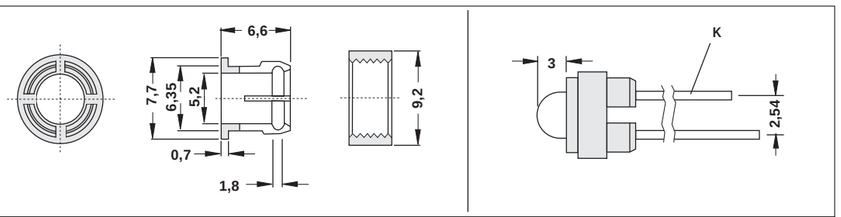
art. no.	type
DH 3 V	for LED Ø 3 mm

K = cathode

material: glass fibre reinforced polyamide

suitable for 5 mm diodes with a collar height of 0.6 mm/1 mm



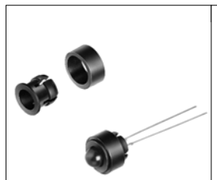


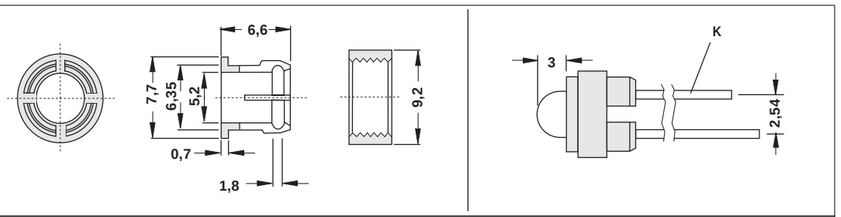
art. no.	type
DH 5 VC	for LED Ø 5 mm

K = cathode

material: glass fibre reinforced polyamide

suitable for 5 mm diodes with a collar height of 0.6 mm/1 mm





art. no.	type
DH 5 SRC	for LED Ø 5 mm

material: glass fibre reinforced polyamide

Spacers & mounting strips → L 2 - 3
Sockets for LED → F 11 - 12
LED-holders for PCB assembly → L 5 - 8
Light pipes for SMDs → L 9 - 11
Technical data of the LEDs → L 12
D-Sub cut-out cover → I 27
Screw fastening → I 28

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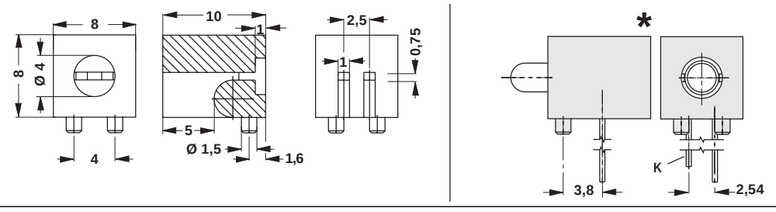
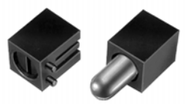
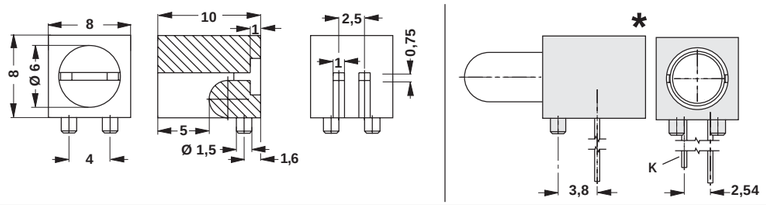
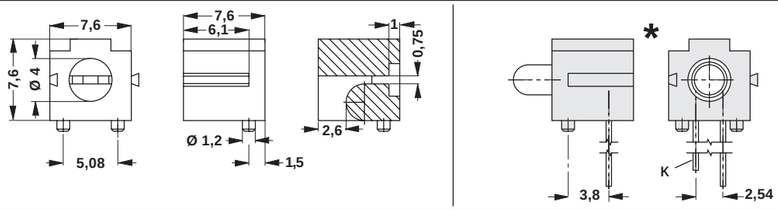
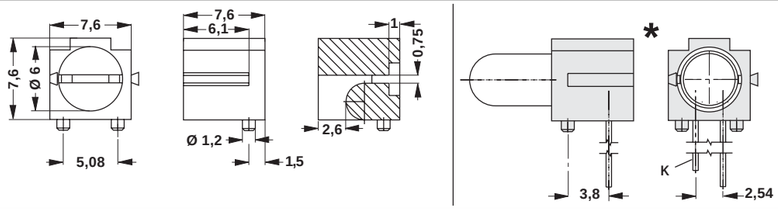
LED-holders for PCB assembly

LED-holder for LED Ø 3 mm and 5 mm

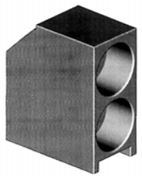
	
art. no.	type
DH 3 W	for LED Ø 3 mm
	
art. no.	type
DH 5 W	for LED Ø 5 mm
	
art. no.	type
DH 3 R	for LED Ø 3 mm
	
art. no.	type
DH 5 R	for LED Ø 5 mm

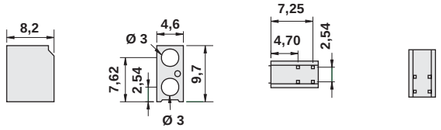
*** = presentation with diode**
K = cathode
material: glass fibre reinforced polyamide

LED-hold.for front panel assembly → **L 4**
Spacers & mounting strips → **L 2 - 3**
LED-holders for PCB assembly → **L 5 - 8**
Sockets for LED → **F 11 - 12**
Light pipes for SMDs → **L 9 - 11**
Technical data of the LEDs → **L 12**

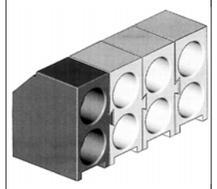
LED-holder for LED Ø 3 mm

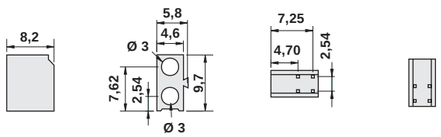
multiple LED-holders: single holder/can be strung, left/can be strung, middle/can be strung, right



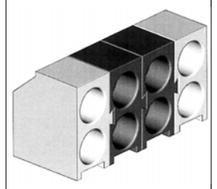


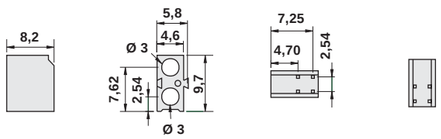
art. no.	type
DDH 3 E	for LED Ø 3 mm



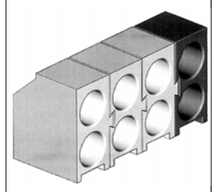


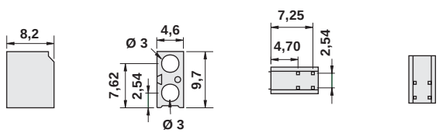
art. no.	type
DDH 3 L	for LED Ø 3 mm





art. no.	type
DDH 3 M	for LED Ø 3 mm





art. no.	type
DDH 3 R	for LED Ø 3 mm

material: nylon, black
temperature range: -20 °C ... +85 °C
flammability: UL 94 V-0

Sockets for LED → **F 11 - 12**
Screw fastening → **I 28**
D-Sub cut-out cover → **I 27**
Technical data of the LEDs → **L 12**

Light pipes for SMDs → **L 9 - 11**
Spacers & mounting strips → **L 2 - 3**
LED-holders for PCB assembly → **L 5 - 8**

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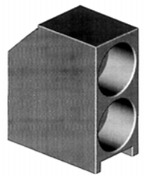
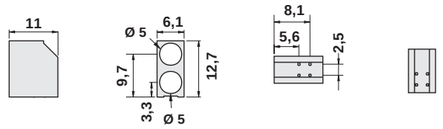
LED-holders for PCB assembly

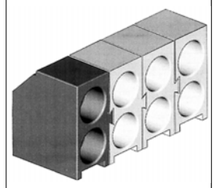
LED-holder for LED Ø 5 mm

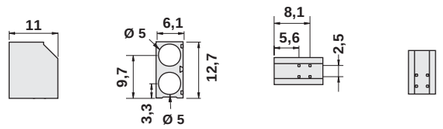
multiple LED-holders: single holder/can be strung, left/can be strung, middle/can be strung, right



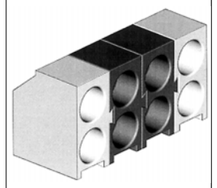


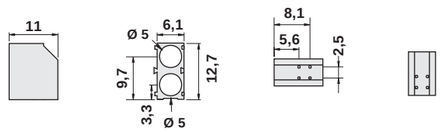
art. no.	type
DDH 5 E	for LED Ø 5 mm



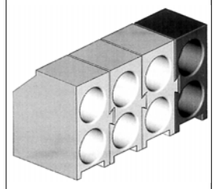


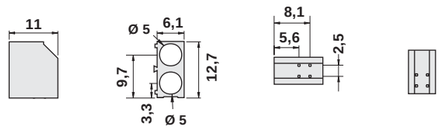
art. no.	type
DDH 5 L	for LED Ø 5 mm





art. no.	type
DDH 5 M	for LED Ø 5 mm





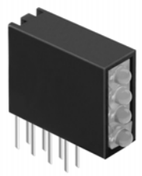
art. no.	type
DDH 5 R	for LED Ø 5 mm

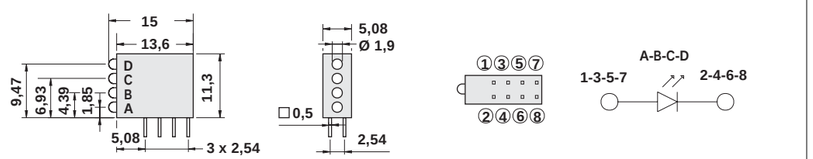
material: nylon, black
temperature range: -20 °C ... +85 °C
flammability: UL 94 V-0

Screw fastening → **I 28**
D-Sub cut-out cover → **I 27**
Spacers & mounting strips → **L 2 - 3**
Technical data of the LEDs → **L 12**
Sockets for LED → **F 11 - 12**
LED-holders for PCB assembly → **L 5 - 8**
LED-hold.for front panel assembly → **L 4**
Light pipes for SMDs → **L 9 - 11**

Fourfold-LED-holders

standard case, diffuse lens, standard colours, space-saving version, round lens, rectangular lens





art. no.	type	emission colour
DLH 21 ASEH	with LED ∅ 2 mm, fourfold	red
DLH 21 AYEH	with LED ∅ 2 mm, fourfold	yellow
DLH 21 AGEH	with LED ∅ 2 mm, fourfold	green

material: nylon, black
temperature range: -20 °C ... +85 °C
flammability: UL 94 V-0

D-Sub cut-out cover → I 27
Screw fastening → I 28
Spacers & mounting strips → L 2 - 3
Technical data of the LEDs → L 12

Light pipes for SMDs → L 9 - 11
Sockets for LED → F 11 - 12
LED-holders for PCB assembly → L 5 - 8

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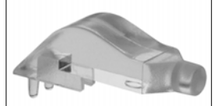
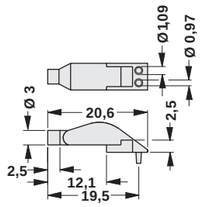
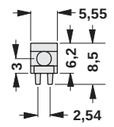
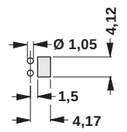
Light pipes for SMDs

suitable for common SMD types, 3 mm light pipes, horizontal, ESD-protection from panel to PCB

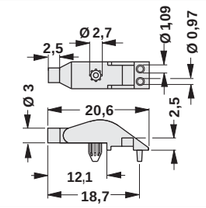


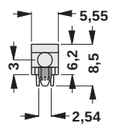


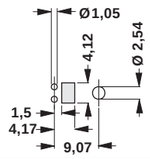




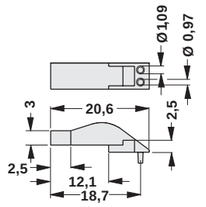
art. no.	way of fixation	diameter of lense
LL 30 HRS	by alignment pins	Ø 3 mm

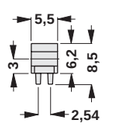


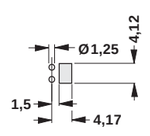




art. no.	way of fixation	diameter of lense
LL 30 HRP	by press-in pins	Ø 3 mm







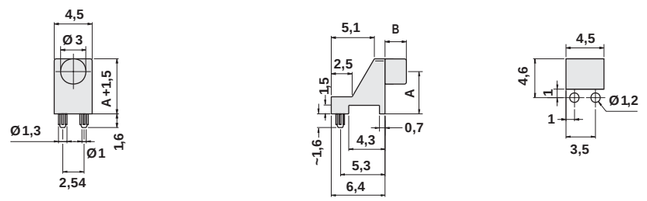
art. no.	way of fixation	diameter of lense
LL 35 HVS	by alignment pins	rectangle 5.5x3 mm

material: polycarbonat, clear colour
temperature range: -30 °C ... +100 °C
flammability: UL 94 V-0

Spacers & mounting strips → **L 2 - 3**
Sockets for LED → **F 11 - 12**
LED-holders for PCB assembly → **L 5 - 8**
Technical data of the LEDs → **L 12**
Screw fastening → **I 28**
D-Sub cut-out cover → **I 27**
LED-hold.for front panel assembly → **L 4**
Light pipes for SMDs → **L 9 - 11**

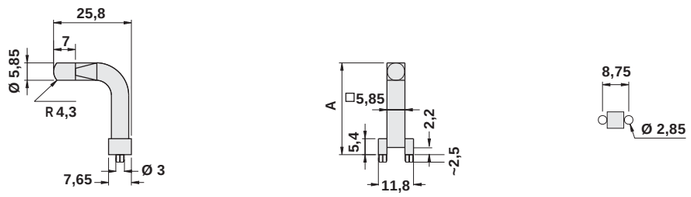
Light pipes for SMDs

suitable for common SMD types, 3 mm light pipes, horizontal, ESD-protection from panel to PCB



art. no.	way of fixation	dim. [mm] A	dim. [mm] B
LL 30 WRFP 038	by press-in pins	3.80	2.50
LL 30 WRFP 050	by press-in pins	5.00	2.50
LL 30 WRFP 076	by press-in pins	7.60	2.50
LL 30 WRFP 102	by press-in pins	10.20	2.50

panel light pipe, 6 mm lens, suitable for common SMD LEDs, white lens, large angle of radiation



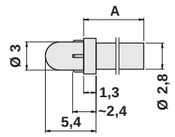
art. no.	way of fixation	dim. [mm] A
LL 60 WRB 254	by press-in pins	25.40

material: polycarbonat, clear colour
temperature range: -30 °C ... +100 °C
flammability: UL 94 V-0

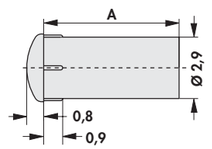
Spacers & mounting strips → **L 2 - 3**
Screw fastening → **I 28**
D-Sub cut-out cover → **I 27**
Technical data of the LEDs → **L 12**
Sockets for LED → **F 11 - 12**
Light pipes for SMDs → **L 9 - 11**
LED-hold.for front panel assembly → **L 4**
LED-holders for PCB assembly → **L 5 - 8**

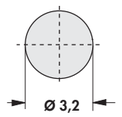
Light pipes for SMDs

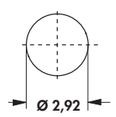
panel light pipe 3 mm, ESD protection from panel to PCB



art. no.	dim. [mm] A	art. no.	dim. [mm] A
LL 30 PRB 032	3.20	**LL 30 PRB 089**	8.90
LL 30 PRB 064	6.40		



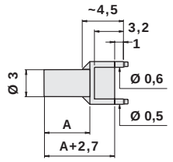


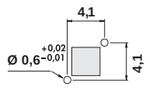


art. no.	dim. [mm] A	art. no.	dim. [mm] A
LL 30 PRL 032	3.20	**LL 30 PRL 127**	12.70
LL 30 PRL 064	6.40	**LL 30 PRL 159**	15.90
LL 30 PRL 089	8.90		

material: polycarbonat, clear colour
temperature range: -30 °C ... +100 °C
flammability: UL 94 V-0

suitable for common SMD LEDs, vertical, rigid light pipe Ø 3 mm, ESD protection from panel to PCB





art. no.	way of fixation	dim. [mm] A
LL 30 VRFS 024	by alignment pins	2.40
LL 30 VRFS 050	by alignment pins	5.00
LL 30 VRFS 075	by alignment pins	7.50

material: polycarbonat, clear colour
temperature range: -30 °C ... +100 °C
flammability: UL 94 V-0

Screw fastening → **I 28**
Spacers & mounting strips → **L 2 - 3**
Sockets for LED → **F 11 - 12**
D-Sub cut-out cover → **I 27**
LED-holders for PCB assembly → **L 5 - 8**
Light pipes for SMDs → **L 9 - 11**
Technical data of the LEDs → **L 12**
LED-hold.for front panel assembly → **L 4**