

Shroud-male header

Straight, two rows, shrouded

- suitable for female multipoint connector **VFL ...** → H 11, **FLMP ...** → H 11, **PV ...** → H 12
- in addition they can be combined with many other ribbon cable connectors in 2.54 mm pitch
- gold-plated plug-in area and tin-plated soldering area or completely tin plated available!

art. no.	no. of contacts	dim. [mm]			art. no.	no. of contacts	dim. [mm]		
		A	B	C			A	B	C
ASLG 06 ...	6	15.3	12.7	5.08	ASLG 20 ...	20	33.1	30.5	22.86
ASLG 08 ...	8	17.8	15.2	7.62	ASLG 26 ...	26	40.7	38.1	30.48
ASLG 10 ...	10	20.4	17.8	10.16	ASLG 34 ...	34	50.9	48.3	40.64
ASLG 12 ...	12	22.9	20.3	12.70	ASLG 40 ...	40	58.5	55.9	48.26
ASLG 14 ...	14	25.4	22.9	15.24	ASLG 50 ...	50	71.2	68.6	60.96
ASLG 16 ...	16	28.0	25.4	17.78					
<p>please indicate: ... surface of contact G = gold-plated Z = tin-plated</p>									

Angled, two rows, shrouded

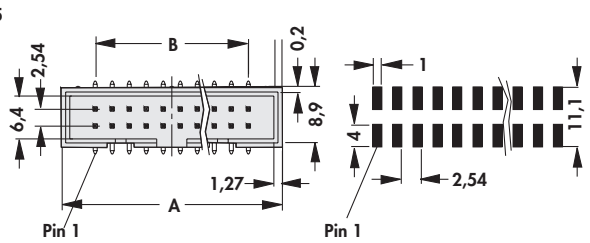
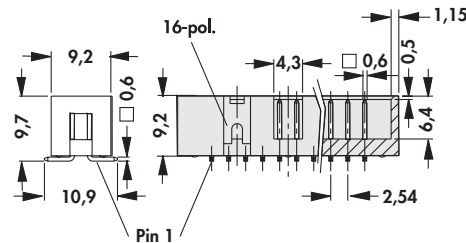
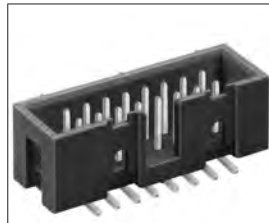
- suitable for female multipoint connector **VFL ...** → H 11, **FLMP ...** → H 11, **PV ...** → H 12
- in addition they can be combined with many other ribbon cable connectors in 2.54 mm pitch
- gold-plated plug-in area and tin-plated soldering area available!

art. no.	no. of contacts	dim. [mm]							
		A	B	C					
ASLA 06 G	6	15.3	12.7	5.08					
ASLA 08 G	8	17.8	15.2	7.62					
ASLA 10 G	10	20.4	17.8	10.16					
ASLA 12 G	12	22.9	20.3	12.70					
ASLA 14 G	14	25.4	22.9	15.24					
ASLA 16 G	16	28.0	25.4	17.78					
ASLA 20 G	20	33.1	30.5	22.86					
ASLA 26 G	26	40.7	38.1	30.48					
ASLA 34 G	34	50.9	48.3	40.64					
ASLA 40 G	40	58.5	55.9	48.26					
ASLA 50 G	50	71.2	68.6	60.96					

Shroud-male header

SMD, two rows, shrouded

- suitable for female multipoint connector **VFL ...** → H 11, **FLMP ...** → H 11, **PV ...** → H 12
- **VPE** = packing unit (pieces/tube)
- gold-plated plug-in area and tin-plated soldering area or completely tin-plated available!
- in addition they can be combined with many other ribbon cable connectors in 2.54 mm pitch



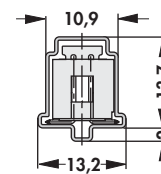
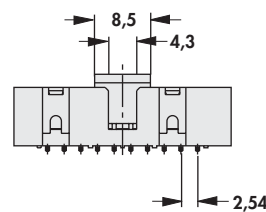
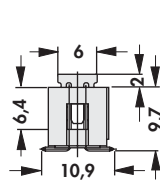
art. no.	no. of contacts	packing unit	dim. [mm]		art. no.	no. of contacts	packing unit	dim. [mm]	
			A	B				A	B
ASL 06 SMD ...	6	32	15.3	5.08	ASL 20 SMD ...	20	15	33.1	22.86
ASL 08 SMD ...	8	27	17.8	7.62	ASL 26 SMD ...	26	12	40.7	30.48
ASL 10 SMD ...	10	24	20.4	10.16	ASL 34 SMD ...	34	9	50.9	40.64
ASL 12 SMD ...	12	21	22.9	12.70	ASL 40 SMD ...	40	8	58.5	48.26
ASL 14 SMD ...	14	19	25.4	15.24	ASL 50 SMD ...	50	7	71.2	60.96
ASL 16 SMD ...	16	17	28.0	17.78					

please indicate:	... surface of contact	... packing (optional)
	G = gold-plated Z = tin-plated	SM = bar magazine B SM = pick and place pad and bar magazine B TR = pick and place pad and tape and reel (300pcs/reel)

... packing (option) - additions:

ASL ... SMD ... B TR: 06 contacts; 08 contacts; 10 contacts; 26 contacts

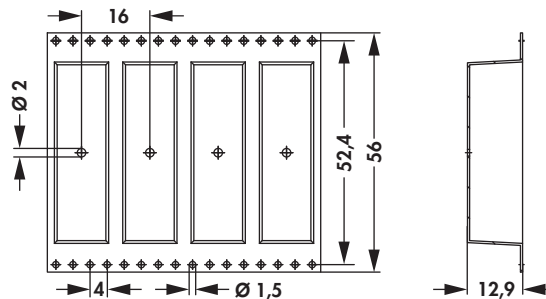
Option for automatic assembly



... B SM

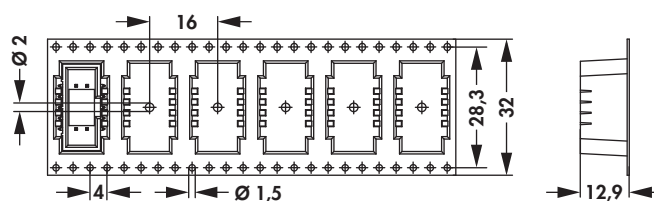
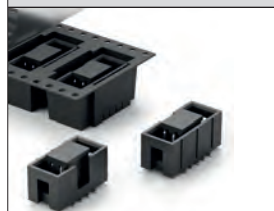
ASL ... SMD ...

ASL ... SMD ... B SM



ASL 26 SMD ... B TR

... B TR

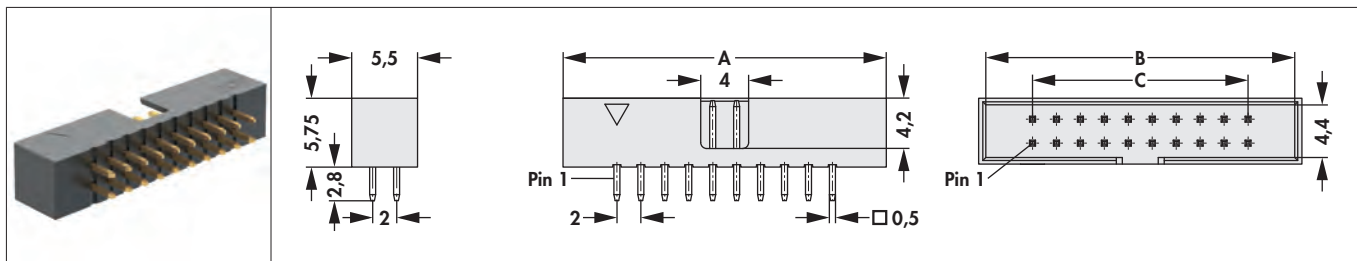


ASL 06 - 10 SMD ... B TR

Shroud-male header

Straight, two rows, shrouded

- suitable for female multipoint connector **PVY ...** → H 13
- they are also combinable with many other ribbon cable female multipoint connectors in grid 2.00 mm
- contacts are available in gold-plated, tin-plating upon request!



art. no.	no. of contacts	dim. [mm]		
		A	B	C
ASLGY 10 G	10	17	15.8	8
ASLGY 20 G	20	27	25.8	18
ASLGY 26 G	26	33	31.8	24
ASLGY 40 G	40	47	45.8	38
ASLGY 44 G	44	51	49.8	42
ASLGY 50 G	50	57	55.8	48

A

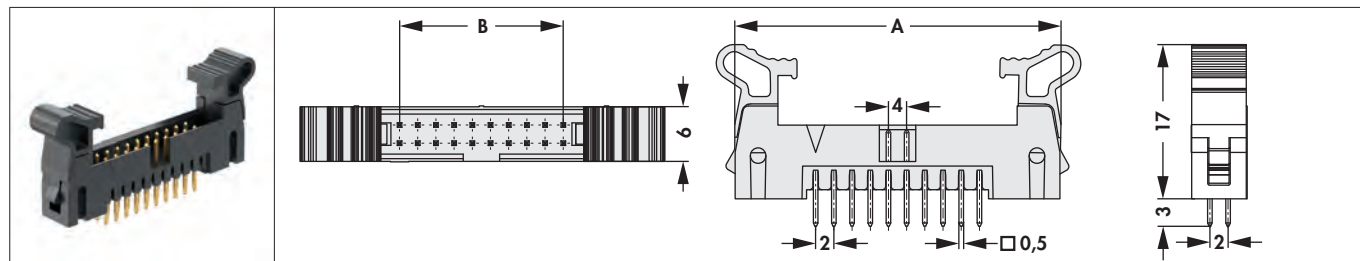
Shroud-male header

B

Straight, two rows, shrouded and with lock

- suitable for female multipoint connector **PVY ...** → H 13
- they are also combinable with many other ribbon cable female multipoint connectors in grid 2.00 mm
- contacts are available in gold-plated, tin-plating upon request!

C



D

art. no.	no. of contacts	dim. [mm]	
		A	B
VSLGY 10 G	10	25.7	8
VSLGY 20 G	20	35.7	18
VSLGY 26 G	26	41.7	24
VSLGY 40 G	40	55.7	38
VSLGY 44 G	44	59.7	42
VSLGY 50 G	50	65.7	48

F

G

H

I

K

L

M

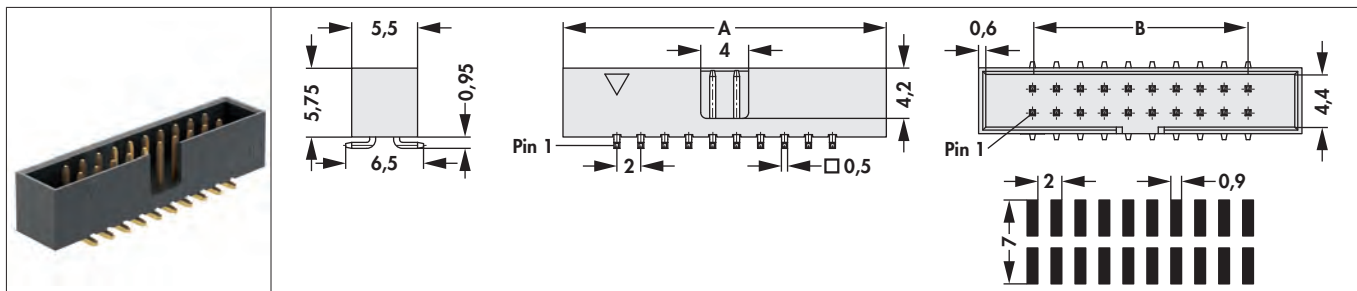
N

H 5

Shroud-male header

SMD, two rows, shrouded

- suitable for female multipoint connector **PVY ...** → H 13
- they are also combinable with many other ribbon cable female multipoint connectors in grid 2.00 mm
- contacts are available in gold-plated, tin-plating upon request!

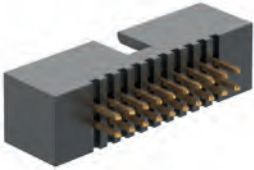
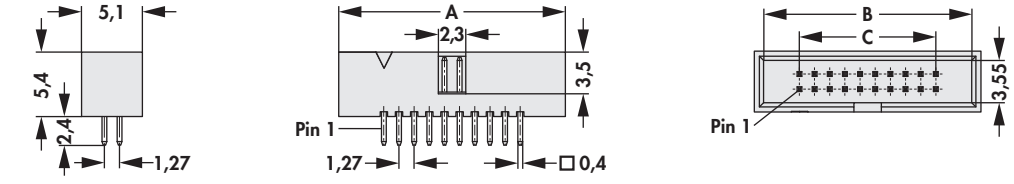


art. no.	no. of contacts	dim. [mm]	
		A	B
ASLY 10 SMD G	10	17	8
ASLY 20 SMD G	20	27	18
ASLY 26 SMD G	26	33	24
ASLY 40 SMD G	40	47	38
ASLY 44 SMD G	44	51	42
ASLY 50 SMD G	50	57	48

Shroud-male header

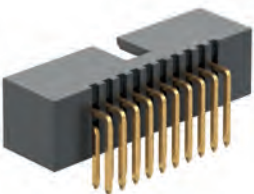
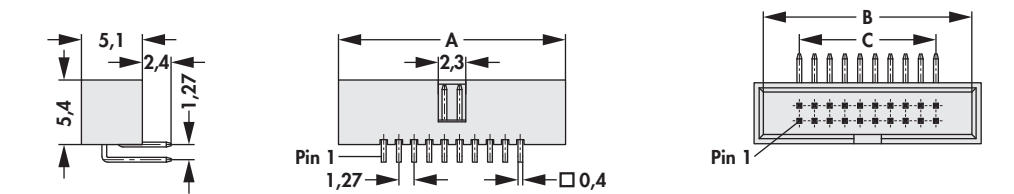
Straight, two rows, shrouded

- suitable for female multipoint connector **PVV ...** → H 14
- they are also combinable with many other ribbon cable female multipoint connectors in grid 1.27 mm
- contacts are available in gold-plated, tin-plating upon request!

				
art. no.	no. of contacts	dim. [mm]		
		A	B	C
ASLGV 10 G	10	12.65	11.10	5.08
ASLGV 20 G	20	19.00	17.45	11.43
ASLGV 26 G	26	22.80	21.25	15.24
ASLGV 40 G	40	31.70	30.15	24.13

Angled, two rows, shrouded

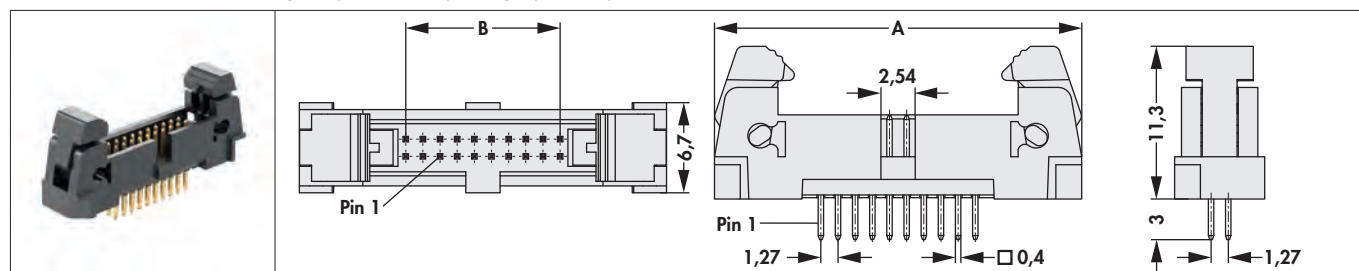
- suitable for female multipoint connector **PVV ...** → H 14
- they are also combinable with many other ribbon cable female multipoint connectors in grid 1.27 mm
- contacts are available in gold-plated, tin-plating upon request!

				
art. no.	no. of contacts	dim. [mm]		
		A	B	C
ASLAV 10 G	10	12.65	11.10	5.08
ASLAV 20 G	20	19.00	17.45	11.43
ASLAV 26 G	26	22.80	21.25	15.24
ASLAV 40 G	40	31.70	30.15	24.13

Shroud-male header

Straight, two rows, shrouded and with lock

- suitable for female multipoint connector **PVV ...** → H 14
- they are also combinable with many other ribbon cable female multipoint connectors in grid 1.27 mm
- contacts are available in gold-plated, tin-plating upon request!



art. no.	no. of contacts	dim. [mm]	
		A	B
VSLGV 10 G	10	20.83	5.08
VSLGV 20 G	20	27.18	11.43
VSLGV 26 G	26	30.89	15.24
VSLGV 40 G	40	39.88	24.13

Shroud-male header

SMD, two rows, shrouded

- suitable for female multipoint connector **PVV ...** → H 14
- they are also combinable with many other ribbon cable female multipoint connectors in grid 1.27 mm
- contacts are available in gold-plated, tin-plating upon request!

art. no.	no. of contacts	dim. [mm]	
		A	B
ASLV 10 SMD G	10	6.35	5.08
ASLV 20 SMD G	20	12.70	11.43
ASLV 26 SMD G	26	16.51	15.24
ASLV 40 SMD G	40	25.40	24.13

SMD, two rows, shrouded and with lock

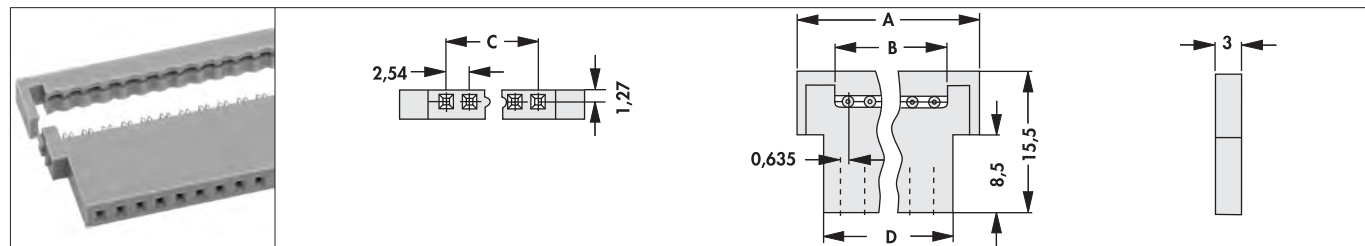
- suitable for female multipoint connector **PVV ...** → H 14
- they are also combinable with many other ribbon cable female multipoint connectors in grid 1.27 mm
- contacts are available in gold-plated, tin-plating upon request!

art. no.	no. of contacts	dim. [mm]		
		A	B	
VSLV 10 SMD G	10	20.83	5.08	
VSLV 20 SMD G	20	27.18	11.43	
VSLV 26 SMD G	26	30.89	15.24	
VSLV 40 SMD G	40	39.88	24.13	

Female connector

One row

– excess length of the ribbon cable to the case at ≥ 1 mm!



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

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

annotation:	IDC-pattern 2.54mm
cross-section:	AWG 28...30 = 0,09...0,05 mm ²
insulation diameter:	$\leq 1,1$ mm
suitable ribbon cable round conductor flat cable:	AWG 28 = massive or strand
recommended connector pins:	$\square 0,635$ mm


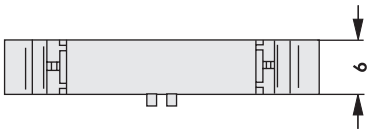
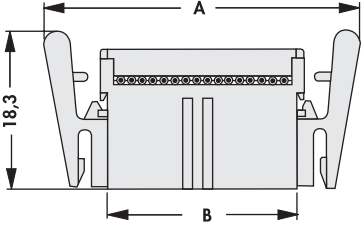
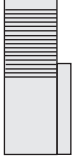


A
B
C
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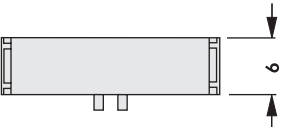
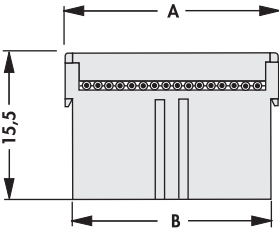
Female connector

Two rows, with polarisation

– lockable female multipoint connector, suitable for shrouded male header **ASL ...**

							
art. no.	no. of contacts	dim. [mm]		art. no.	no. of contacts	dim. [mm]	
		A	B			A	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				
<p>please indicate: ... surface of contact G = gold-plated Z = tin-plated</p>							

– suitable for shrouded male header **ASL ...**
 – excess length of the ribbon cable to the case at ≥ 1 mm!

							
art. no.	no. of contacts	dim. [mm]		art. no.	no. of contacts	dim. [mm]	
		A	B			A	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				
<p>please indicate: ... surface of contact G = gold-plated Z = tin-plated</p>							
annotation:		IDC-pattern 1.27mm					
cross-section:		AWG 28...30 = 0,09...0,05 mm ²					
insulation diameter:		$\leq 1,1$ mm					
suitable ribbon cable round conductor flat cable:		AWG 28 = massive or strand					



Female connector

Two rows, with polarisation

- suitable for shrouded male header **ASL ...**
- excess length of the ribbon cable to the case at ≥ 1 mm!

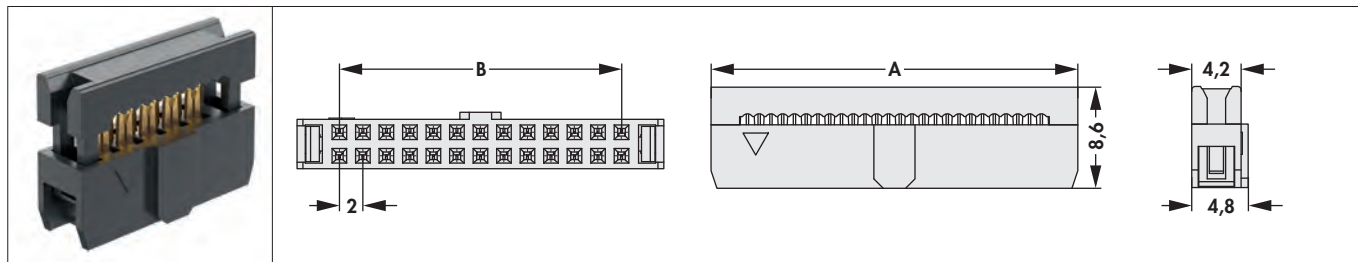
art. no.	no. of contacts	suitable strain relief	dim. [mm]		art. no.	no. of contacts	suitable strain relief	dim. [mm]	
PV 06 G	6	ZEPV 06	12.2	5.08	PV 26 G	26	ZEPV 26	37.6	30.48
PV 10 G	10	ZEPV 10	17.3	10.16	PV 34 G	34	ZEPV 34	47.8	40.64
PV 14 G	14	ZEPV 14	22.4	15.24	PV 40 G	40	ZEPV 40	55.4	48.26
PV 16 G	16	ZEPV 16	24.9	17.78	PV 50 G	50	ZEPV 50	68.1	60.96
PV 20 G	20	ZEPV 20	30.0	22.86					
surface of contact:		gold-plated							
annotation:		IDC-pattern 1.27mm							
cross-section:		AWG 28...30 = 0,09...0,05 mm ²							
insulation diameter:		$\leq 1,1$ mm							
suitable ribbon cable round conductor flat cable:		AWG 28 = massive or strand							

art. no.	no. of contacts	dim. [mm]		art. no.	no. of contacts	dim. [mm]	
ZEPV 06	6	A	B	ZEPV 26	26	A	B
ZEPV 10	10	12.2	5.08	ZEPV 34	34	37.6	30.48
ZEPV 14	14	17.3	10.16	ZEPV 40	40	47.8	40.64
ZEPV 16	16	22.4	15.24	ZEPV 50	50	55.4	48.26
ZEPV 20	20	24.9	17.78			68.1	60.96
		30.0	22.86				

Female connector

Two rows

- Suitable for **ASLGY ...**, **ASLY ... SMD** and **VSLGY ...**
- Protrusion length of the ribbon cable to the case ≥ 1 mm!

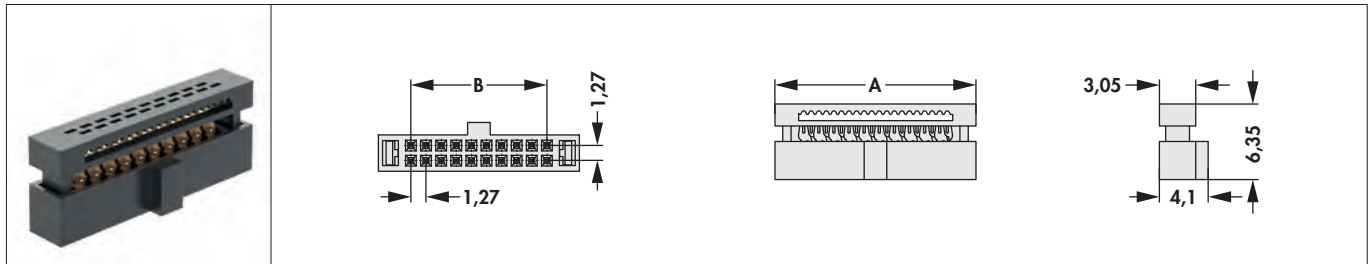


art. no.	no. of contacts	dim. [mm]	
		A	B
PVY 10 S	10	15.2	8
PVY 20 S	20	25.1	18
PVY 26 S	26	31.2	24
PVY 40 S	40	45.3	38
PVY 44 S	44	49.3	42
PVY 50 S	50	55.1	48
surface of contact:		selective gold-plated	
annotation:		IDC-pattern, 1 mm	
recommended connector pins:		□ 0,5 mm	

Female connector

Two rows

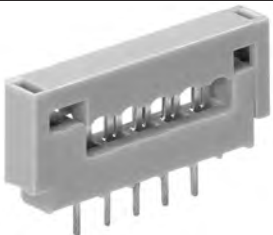
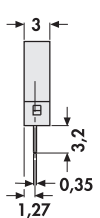
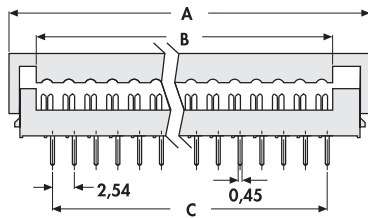
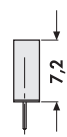
- Suitable for **ASLGV ...**, **ASLAV ...**, **VSLGV ...**, **ASLV ... SMD** und **VSLV ... SMD**
- Protrusion length of the ribbon cable to the case ≥ 1 mm!




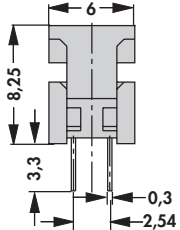
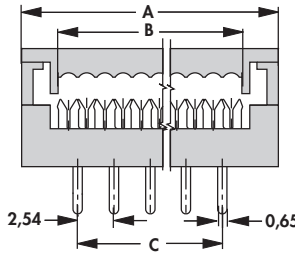
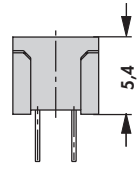
art. no.	no. of contacts	dim. [mm]	
		A	B
PVV 10 G	10	10.54	5.08
PVV 20 G	20	16.89	11.43
PVV 26 G	26	20.70	15.24
PVV 40 G	40	29.59	24.13
surface of contact:	gold-plated		
annotation:	IDC-pattern 0.635mm		
recommended connector pins:	□ 0,4 mm		

Printed circuit connector

– excess length of the ribbon cable to the case at ≥ 1 mm!

				
art. no.	no. of contacts	dim. [mm]		
		A	B	C
SBAU 1 04 Z	4	17.78	10.16	7.62
SBAU 1 06 Z	6	22.86	15.24	12.70
SBAU 1 08 Z	8	27.94	20.32	17.78
SBAU 1 10 Z	10	33.02	25.40	22.86
SBAU 1 12 Z	12	38.10	30.48	27.94
SBAU 1 14 Z	14	43.18	35.56	33.02
SBAU 1 16 Z	16	48.26	40.64	38.10
SBAU 1 17 Z	17	50.80	43.18	40.64
SBAU 1 18 Z	18	53.34	45.72	43.18
SBAU 1 20 Z	20	58.42	50.80	48.26
surface of contact:	tin-plated			
annotation:	IDC-pattern 2.54mm			
insulation diameter:	$\leq 1,1$ mm			
suitable ribbon cable round conductor flat cable:	AWG 28 = massive or strand			

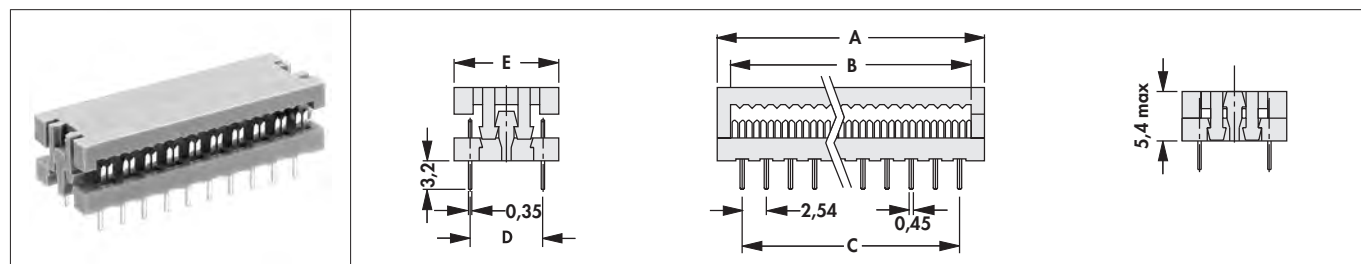
– excess length of the ribbon cable to the case at ≥ 1 mm!

				
art. no.	no. of contacts	dim. [mm]		
		A	B	C
SBAU 06 Z	6	12.9	7.8	5.08
SBAU 10 Z	10	18.0	12.9	10.16
SBAU 14 Z	14	23.0	18.0	15.24
SBAU 16 Z	16	25.6	20.5	17.78
SBAU 20 Z	20	30.7	25.6	22.86
SBAU 26 Z	26	38.3	33.2	30.48
SBAU 34 Z	34	48.5	43.4	40.64
surface of contact:	tin-plated			
annotation:	IDC-pattern 1.27mm			
insulation diameter:	$\leq 1,1$ mm			
suitable ribbon cable round conductor flat cable:	AWG 28 = massive or strand			

Printed circuit connector

Design DIL


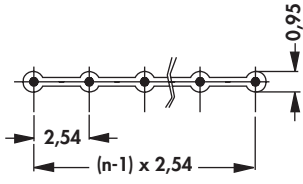
– excess length of the ribbon cable to the case at ≥ 1 mm!



art. no.	no. of contacts	dim. [mm]				
		A	B	C	D	E
KK 04 Z	4	8.0	5.1	2.54	7.62	11.0
KK 06 Z	6	10.3	7.6	5.08		
KK 08 Z	8	13.0	10.2	7.62		
KK 10 Z	10	15.4	12.7	10.16		
KK 12 Z	12	18.0	15.3	5.08		
KK 14 Z	14	20.5	17.8	15.24		
KK 16 Z	16	23.0	20.3	17.78		
KK 18 Z	18	25.6	22.9	20.32		
KK 20 Z	20	28.1	25.4	22.86	15.24	18.7
KK 24 Z	24	33.0	30.5	27.94		
KK 28 Z	28	38.1	35.6	33.02		
KK 40 Z	40	53.3	50.8	48.26		
surface of contact:		tin-plated				
annotation:		IDC-pattern 1.27mm				
insulation diameter:		$\leq 1,1$ mm				
suitable ribbon cable round conductor flat cable:		AWG 28 = massive or strand				



Accessories for flat ribbon cable and application tools

Flat ribbon cable - Spacing 2.54 mm - suitable for connectors FV, SBAU 1

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

Bench press

- height without handle: 28 cm, weight: 9.02 kg
- the bench press **VBK 1** connects all contacts of IDC connector types **FLMP, FV, KK, PV, PVY, SB, VFL, DS/DB BK 09-37** in one simple operation
- the contacts separate the insulation of the flat ribbon cable, whereas a gas-tight and corrosion-proof connection is effected by the construction of the contacts form

	
art. no. VBK 1	

Accessories, suitable for ribbon cable connector

- exchangeable crimping dies for any indicated types available

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

	ASL ..., ASLG ...	ASLGY ..., ASLY ... SMD G, VSLGY ...	ASLAV ..., ASLGV ..., ASLV ... SMD G, VSLGV ..., VSLV ... SMD G	FV ...
surface contact / contact sleeve	Ni+≥0.2μm Au/ Ni +4...8μm Sn	Ni+≥0.2μm Au		Ni+≥0.2μm Au/ Ni +5...10μm Sn
contact material	CuSn alloy	Cu-alloy		CuSn alloy
creeping current resistance				KC 175 nach DIN 53480
creepage	≥1,1mm VDE0110			1,4mm VDE0110
air gap	≥0,8 mm VDE0110			1mm VDE0110
nominal current	1 A	1.5 A	1 A	2 A
nominal voltage	250V AC insulation group A, according to VDE0110	150 V DC	100 V DC	250V AC insulation group A, according to VDE0110
test voltage	500 V AC		300 V AC	500 V AC
insertion / drawing force				≥0.3N ... ≤0.7N per contact
cycles of operation				≥50 according to DIN 41640
insulating body material	PPS	PBT		PC/ colour: RAL 7032
temperature range	-40°C ... +200°C (260°C / 10s)	-40°C ... +105°C (260°C / 10s)		-55°C... +125°C
class of inflammability	UL 94 V-0			
specific insulation resistance	>10 ⁷ Ω·m			
cross-section				AWG 28...30 = 0,09...0,05 mm ²
	FLMP ..., VFL ...	PV ...	PVY ... S	PVW ... G
surface contact / contact sleeve	Ni+≥0.2μm Au/ Ni +5...10μm Sn	Ni+≥5μm Sn/ Ni +≥0.2μm Au	contact area: Ni +>0.1μm Au/ connection area: Ni +0.5...2.5μm Sn	contact area: Ni +>0.1μm Au
contact material	CuSn alloy		Cu-alloy	
creeping current resistance	KC 175 nach DIN 53480	KC 250		
creepage	1,4mm VDE0110			
air gap	1mm VDE0110			
nominal current	1 A	2 A	1.5 A	
nominal voltage	250V AC insulation group A, according to VDE0110		150 V DC	100 V DC
test voltage	500 V AC			
insertion / drawing force	≥0.3N ... ≤0.7N per contact		≥0.5 ... ≤1.8N per contact	
cycles of operation	≥50 according to DIN 41640	200 to DIN41651		
insulating body material	PC/ colour: RAL 7032		PBT, schwarz	
temperature range	-55°C... +125°C		-40°C... +105°C	
class of inflammability	UL 94 V-0			
specific insulation resistance	>10 ⁷ Ω·m		>10 ¹⁰ Ω·m	
cross-section	AWG 28...30 = 0,09...0,05 mm ²			

A

Technical data: IDC-connectors

B

C

D

E

F

G

H

I

K

L

M

N

	SBAU ... Z	KK ... Z, SBAU 1 ... Z	BK 01 32
surface contact / contact sleeve	Ni+5 μ m Sn	Ni+5...10 μ m Sn	
contact material	CuSn alloy		
creeping current resistance	KC 175 nach DIN 53480		
creepage	$\geq 0,7$ mm VDE 0110		
air gap	$\geq 0,5$ mm VDE 0110		
nominal current	1 A		2 A
nominal voltage	250V AC insulation group A, according to VDE0110		300 V _{eff} max.
test voltage	500 V AC		
insulating body material	PC	colour: RAL 7032	
temperature range	-55°C... +125°C		-30°C... +105°C
class of inflammability	UL 94 V-1	UL 94 V-0	
specific insulation resistance	$> 10^{12}$ $\Omega \cdot m$		
conductor			7 x \varnothing 0,127 mm
cross-section	AWG 28...30 = 0,09...0,05 mm ²		AWG 28/~0,089 mm ²
capacity			≤ 65 pF/m symmetrical
conductor resistance			≤ 230 m Ω /m
characteristic impedance			170 Ω symmetrisch

