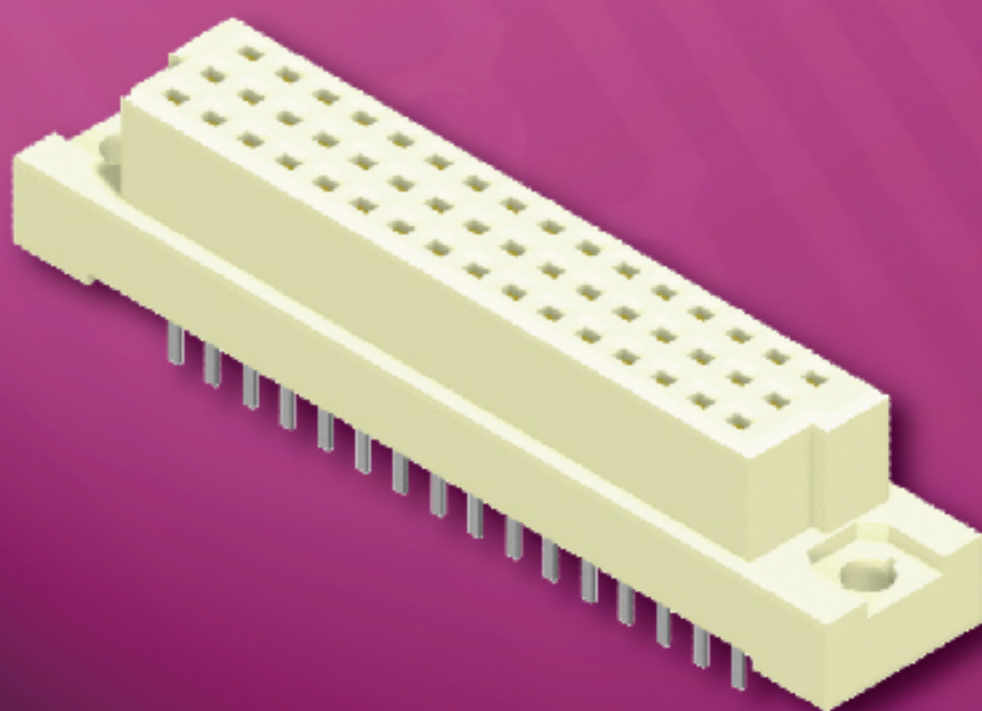
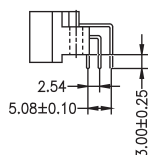
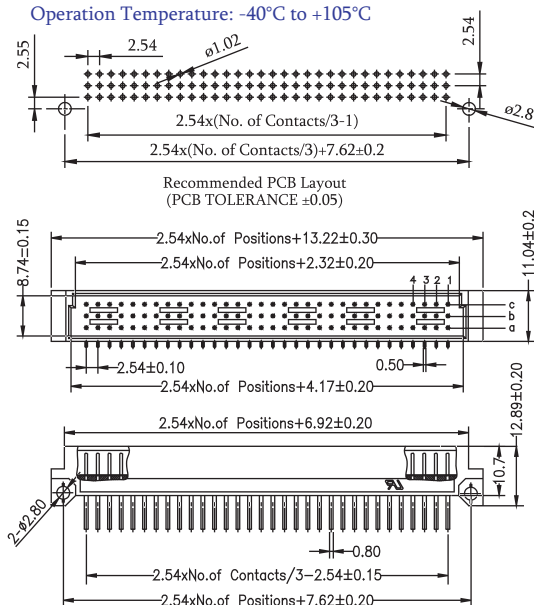


DIN 41612

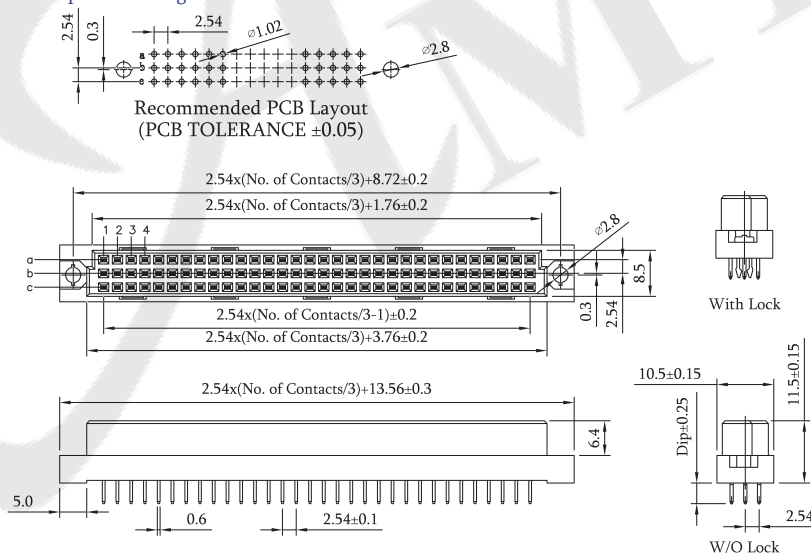
9-1~9-10 • DIN 41612



AMTEK Technology Co., Ltd



Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	L3A	96	A B C	
	L3B	64	A B --	
	L3C	64	A -- C	
	L3D	32	A -- --	
5.08mm	L3E	48	A B C	
	L3F	32	A B --	
	L3G	32	A -- C	
	L3H	16	A -- --	



Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	L3A	96	A B C	
	L3B	64	A B --	
	L3C	64	A -- C	
	L3D	32	A -- --	
5.08mm	L3E	48	A B C	
	L3F	32	A B --	
	L3G	32	A -- C	
	L3H	16	A -- --	

5 D I N X L 3 X X X - X X X X W A B 0 1

R: Right Angle
S: Straight

L: Long Body

3: 3 Rows

M: Male
F: Female

No. of Contacts
See Table

W: Natural
A: Tray

See Table		DIP Length			G0:Gold Flash
2.54	5.08	For Right Angle		For Straight	S0:Selective Au
A:ABC	E:ABC	N:W/O Lock	W/O Lock	With Lock	S8:Selective Au 10u
B:AB	F:AB	1:With Lock	A:4.0mm	D:4.0mm	SF:Selective Au 15u
C:AC	G:AC		C:13.0mm	F:13.0mm	S2:Selective Au 30u
D:A	H:A		H:15.0mm	L:15.0mm	TO:Tin Plated
			I:17.0mm	M:17.0mm	

9-1

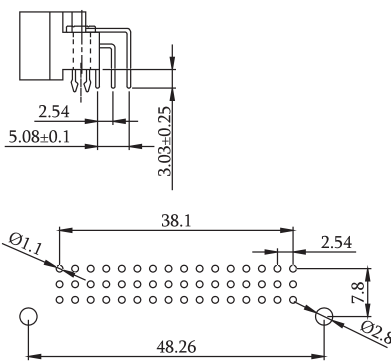
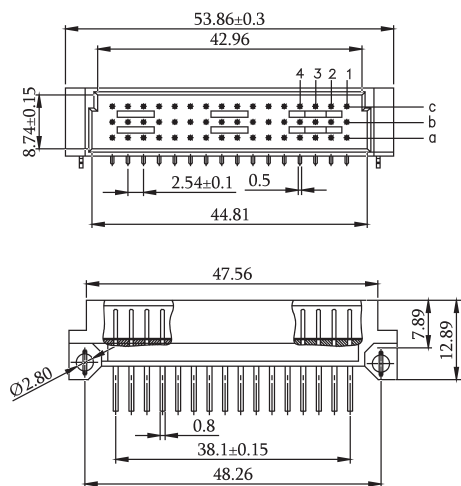
DIN 41612 Short Body C Type Male

Specifications

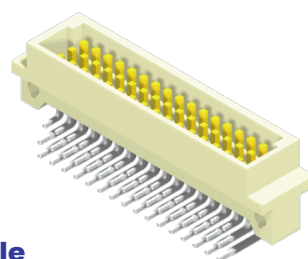
Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Contact Resistance: 30mΩ Max.
Dielectric Voltage: 1000V AC for one minute
Operation Temperature: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Brass



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	S3A	48	A B C	
	S3B	32	A B --	
	S3C	32	A -- C	
	S3D	16	A -- --	
5.08mm	S3E	24	A B C	
	S3F	16	A B --	
	S3G	16	A -- C	
	S3H	8	A -- --	

P/N.:5DINRS3XXM-XXXXWAB01

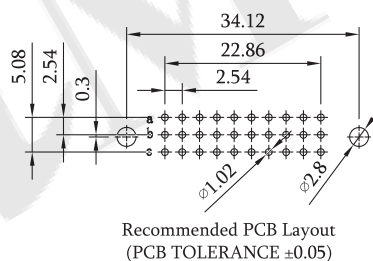
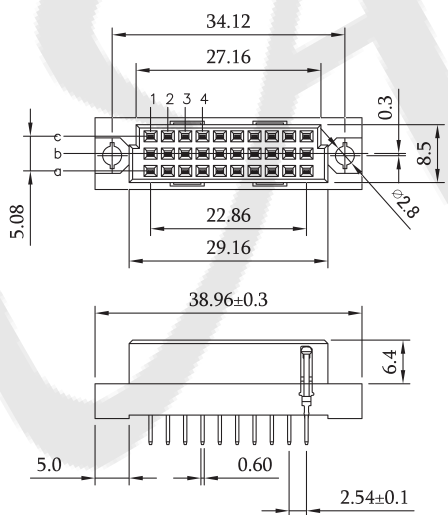
DIN 41612 Short Body C Type Female

Specifications

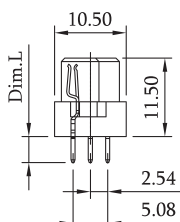
Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Contact Resistance: 30mΩ Max.
Dielectric Voltage: 1000V AC for one minute
Operation Temperature: -40°C to +105°C

Material

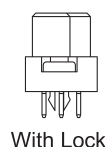
Insulator: PBT, UL 94V-0
Terminal: Brass



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



W/O Lock



With Lock

Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	S3A	30	A B C	
	S3B	20	A B --	
	S3C	20	A -- C	
	S3D	10	A -- --	
5.08mm	S3E	15	A B C	
	S3F	10	A B --	
	S3G	10	A -- C	
	S3H	5	A -- --	

P/N.:5DINSS3XXF-XXXXWAB01

ORDER INFORMATION

5 D I N X S 3 X X - X X X X W A B 0 1

R: Right Angle
S: Straight

S: Short Body

3: 3 Row

See Table
2.54 5.08
A: ABC E: ABC
B: AB F: AB
C: AC G: AC
D: A H: A

M: Male
F: Female

No. of Contacts
See Table

W: Natural

A: Tray

DIP Length
For Right Angle For Straight
N: W/O Lock W/O Lock With Lock
1: With Lock A: 4.0mm D: 4.0mm
U: 3.0mm

G0: Gold Flash
S0: Selective Au
SB: Selective Au 10u"
SF: Selective Au 15u"
SD: Selective Au 30u"
T0: Tin Plated

Figure 1 illustrates the recommended PCB layout for the device, showing four views with dimensions and formulas:

- Top View (Left):** Shows the overall dimensions and formulas for the top surface.
 - Overall width: 8.70
 - Overall length: $2.54 \times \text{No. of Positions} + 8.72 \pm 0.20$
 - Distance from left edge to first contact: $2-1.00$
 - Distance between contacts: $2.54 \times \text{No. of Positions} + 3.96 \pm 0.20$
 - Distance from last contact to right edge: 2.54
 - Pin diameter: $\phi 2.80$
 - Pin spacing: 0.30
 - Pin numbering: 4, 3, 2, 1
- Top View (Right):** Shows the overall dimensions and formulas for the top surface.
 - Overall width: 5.08
 - Overall length: $2.54 \times \text{No. of Positions} + 8.72$
 - Distance from left edge to first contact: 2.54
 - Distance between contacts: $2.54 \times (\text{No. of Contacts} - 1) \pm 0.20$
 - Distance from last contact to right edge: 2.54
 - Pin diameter: $\phi 2.8$
 - Pin spacing: 0.3
 - Pin numbering: 1, 2, 3, 4
- Side View (Bottom Left):** Shows the side profile of the device.
 - Overall height: 6.40
 - Distance from top edge to contact: 4.90
 - Overall length: $2.54 \times \text{No. of Positions} + 6.92 \pm 0.20$
 - Distance from left edge to first contact: 0.6×0.6
 - Distance between contacts: $2.54 \times (\text{No. of Contacts} - 1) \pm 0.20$
 - Distance from last contact to right edge: 2.54 ± 0.10
 - Overall length: $2.54 \times \text{No. of Positions} + 13.22 \pm 0.3$
 - Overall height: 11.50 ± 0.15
- Side View (Bottom Right):** Shows the side profile of the device.
 - Overall height: 10.8 ± 0.150
 - Distance from top edge to contact: 2.54
 - Distance between contacts: 5.08 ± 0.1
 - Distance from last contact to right edge: 4.00 ± 0.25

Recommended PCB Layout (PCB TOLERANCE ± 0.05)

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	L3A	96	A B C	
	L3B	64	A B --	
	L3C	64	A -- C	
	L3D	32	A -- --	
5.08mm	L3E	48	A B C	
	L3F	32	A B --	
	L3G	32	A -- C	
	L3H	16	A -- --	

Diagram illustrating the Recommended PCB Layout (PCB TOLERANCE ± 0.05) for a 16-pin connector. The layout shows a grid of 16 pins (8 rows by 2 columns) with dimensions and formulas for spacing and width.

Dimensions and Formulas:

- Pin Width: 2.54
- Pin Spacing (Pitch): 2.54
- Overall Width: $2.54 \times (\text{No. of Contacts} / 3) + 7.72$
- Overall Length: $2.54 \times (\text{No. of Contacts} / 3 - 1)$
- Pin Spacing (Pitch): 2.54
- Pin Diameter: $\phi 0.8$
- Pin Spacing (Pitch): $\phi 0.8$

Recommended PCB Layout (PCB TOLERANCE ± 0.05)

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	L3A	96	A B C	
	L3B	64	A B --	
	L3C	64	A -- C	
	L3D	32	A -- --	
5.08mm	L3E	48	A B C	
	L3F	32	A B --	
	L3G	32	A -- C	
	L3H	16	A -- --	

5 D I N X L 3 X X X - X X X X W A B 0 1

S0:Selective Au
SA:Selective Au 5u"
SB:Selective Au 10u"
SF:Selective Au 15u"
SD:Selective Au 30u"
G0:Gold Flash
T0:Tin Plated

9-3

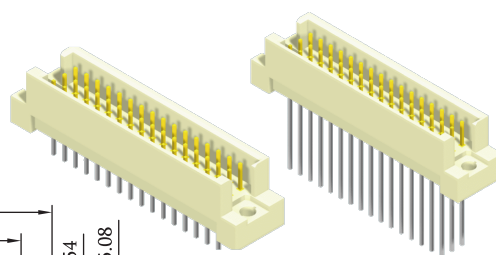
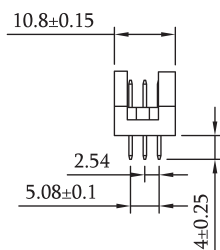
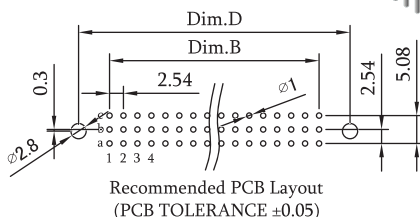
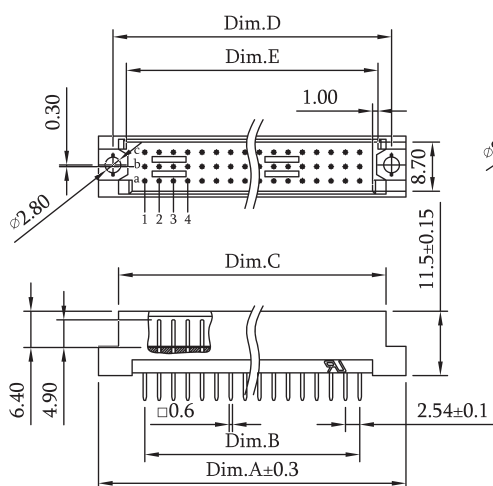
DIN 41612 Short Body R Type Male

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Contact Resistance: 30mΩ Max.
Dielectric Voltage: 1000V AC for one minute
Operation Temperature: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Brass



Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	S3A	48	A B C	
	S3C	20	A -- C	

P/N	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E
5DINSS3AAM-48S0WAB01	53.86	38.1	47.56	49.36	44.6
5DINSS3CAM-20S0WAB01	38.62	22.86	32.32	34.12	29.36

P/N.:5DINSS3XAM-XXS0WAB01

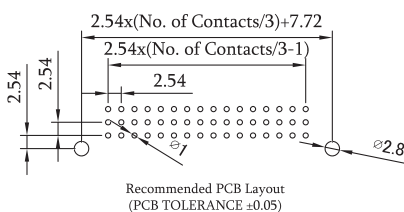
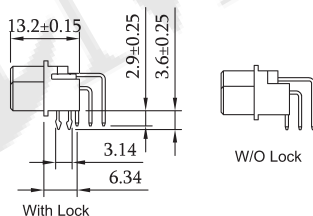
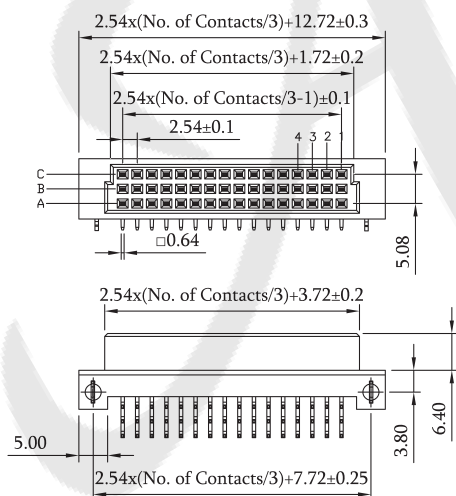
DIN 41612 Short Body R Type Female

Specifications

Current Rating: 2 AMP
Insulation Resistance: 1000MΩ Min.
Dielectric Voltage: 1000V AC for one minute
Contact Resistance: 30mΩ Max.
Operation Temperature: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Brass



Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	S3A	48	A B C	
	S3B	32	A B --	
	S3C	32	A -- C	
	S3D	16	A -- --	
5.08mm	S3E	24	A B C	
	S3F	16	A B --	
	S3G	16	A -- C	
	S3H	8	A -- --	

P/N.:5DINRS3XXF-XXXXWAB01

ORDER INFORMATION

5 D I N X S 3 X X X - X X X X W A B 0 1

R: Right Angle
S: Straight

S: Short Body

3: 3 Row

See Table
2.54 5.08
A: ABC E: ABC
B: AB F: AB
C: AC G: AC
D: A H: A

M: Male
F: Female

No. of Contacts
See Table

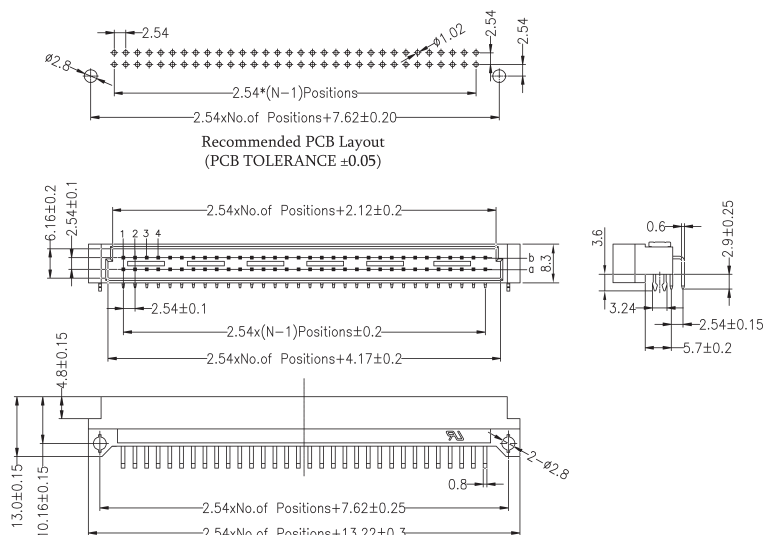
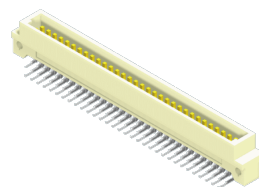
DIP Length
For Right Angle For Straight
N: W/O Lock W/O Lock With Lock
1: With Lock A: 4.0mm D: 4.0mm

S0: Selective Au
SA: Selective Au 5u"
SB: Selective Au 10u"
SF: Selective Au 15u"
SD: Selective Au 30u"
T0: Tin Plated

W: Natural

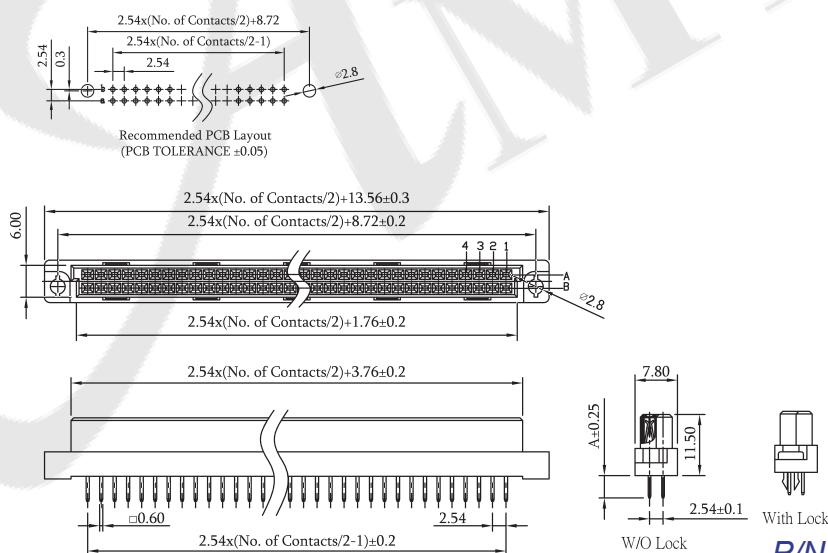
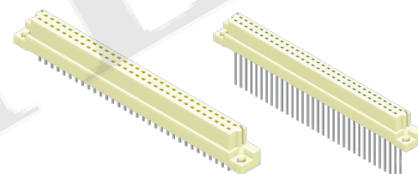
A: Tray

Insulator: PBT, UL 94V-0
Terminal: Copper Alloy



Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	L2B	64	A B	
	L2D	32	A --	
5.08mm	L2F	32	A B	
	L2H	16	A --	

Insulator: PBT, UL 94V-0
Terminal: Copper Alloy



Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	L2B	64	A B	
	L2D	32	A --	
5.08mm	L2F	32	A B	
	L2H	16	A --	

Old P/N:DINLR-M3
DINLS-F3

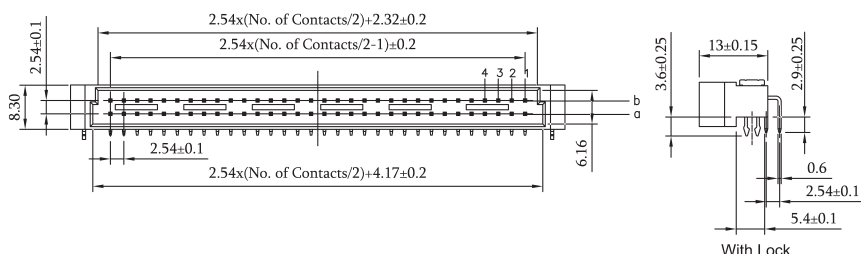
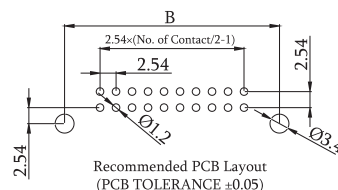
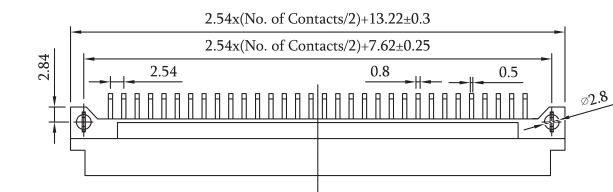
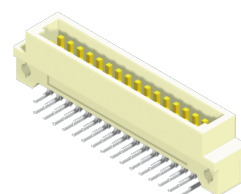
DIN 41612 Short Body B Type Male

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Dielectric Voltage: 1000V AC for one minute
Contact Resistance: 20mΩ Max.
Operation Temperature: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Brass



Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	S2B	64	A B	
	S2B	32	A B	
5.08mm	S2F	32	A B	

P/N.:5DINRS2XXM-XXXXWAB01

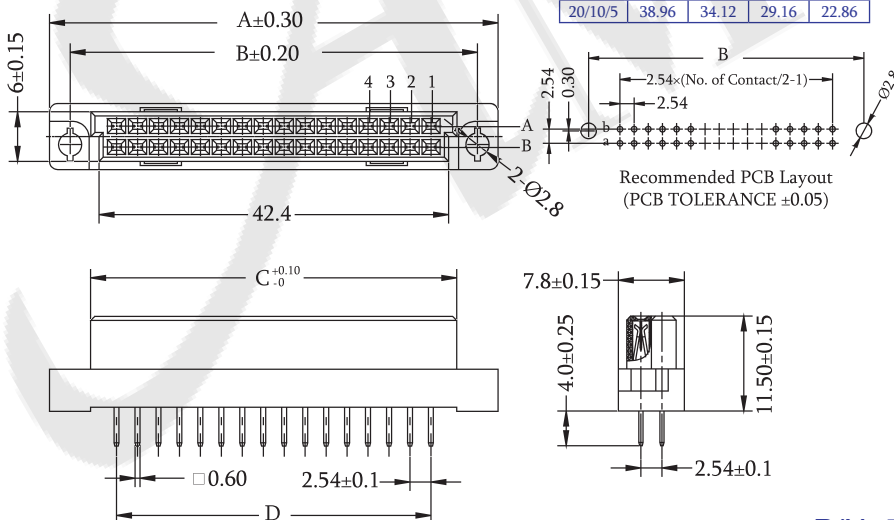
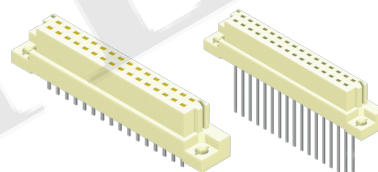
DIN 41612 Short Body B Type Female

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Dielectric Voltage: 1000V AC for one minute
Contact Resistance: 30mΩ Max.
Operation Temperature: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Brass



Dimension				
Position	A	B	C	D
32/16/8	54.20	49.36	44.40	38.10
20/10/5	38.96	34.12	29.16	22.86

Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	S2B	32	A B	
	S2D	16	A --	
	S2B	20	A B	
	S2D	10	A --	
5.08mm	S2F	16	A B	
	S2H	8	A --	
	S2F	10	A B	
	S2H	5	A --	

P/N.:5DINSS2XAF-XXXXWAB01

ORDER INFORMATION

5	D	I	N	X	S	2	X	X	X	-	X	X	X	X	W	A	B	0	1
R: Right Angle S: Straight				S: Short Body		2: 2 Row		M: Male F: Female		No. of Contacts See Table		G0: Gold Flash GA: Au 5u" GB: Au 10u" GF: Au 15u" GD: Au 30u"		S0: Selective Au SB: Selective Au 10u" SC: Selective Au 15u" SD: Selective Au 30u" TD: Tin Plated					
See Table				DIP Length		For Right Angle		For Straight		N: W/O Lock 1: With Lock		A: 4.0mm							

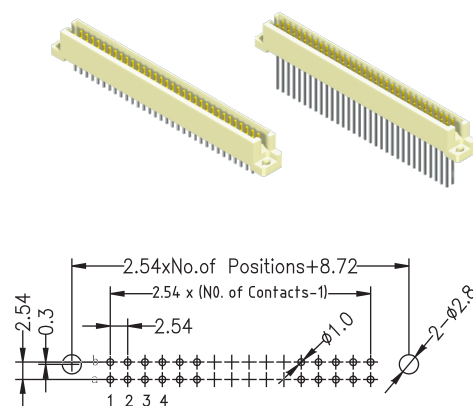
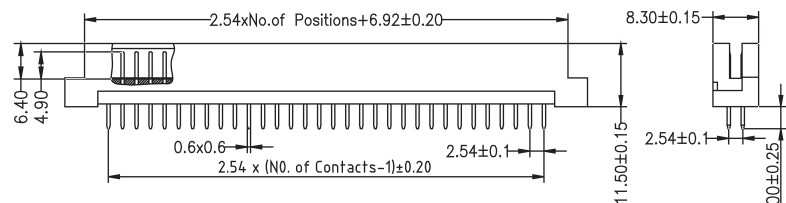
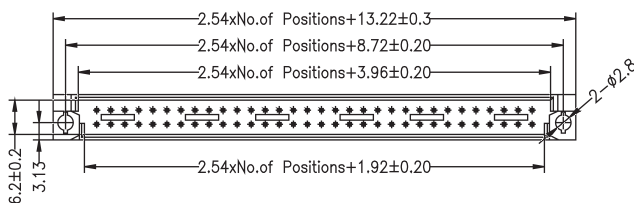
DIN 41612 Long Body Q Type Male

Specifications

Current Rating: 2 AMP
Insulation Resistance: 1000MΩ Min.
Contact Resistance: 30mΩ Max.
Dielectric Voltage: 1000V AC for one minute
Operation Temperature: -40°C to +105°C
Max Processing Temp.: 180°C For 30-60 seconds
(200°C For 10 seconds)

Material

Insulator: Polyester, UL 94V-0
Terminal: Copper Alloy



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	L2B	64	A B	
5.08mm	L2F	32	A B	

P/N.:5DINSL2XXM-XXXXWAB01

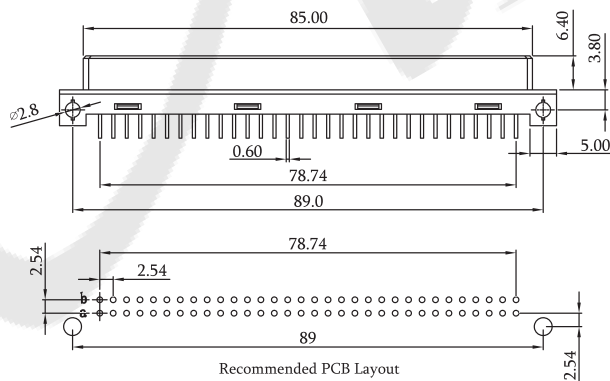
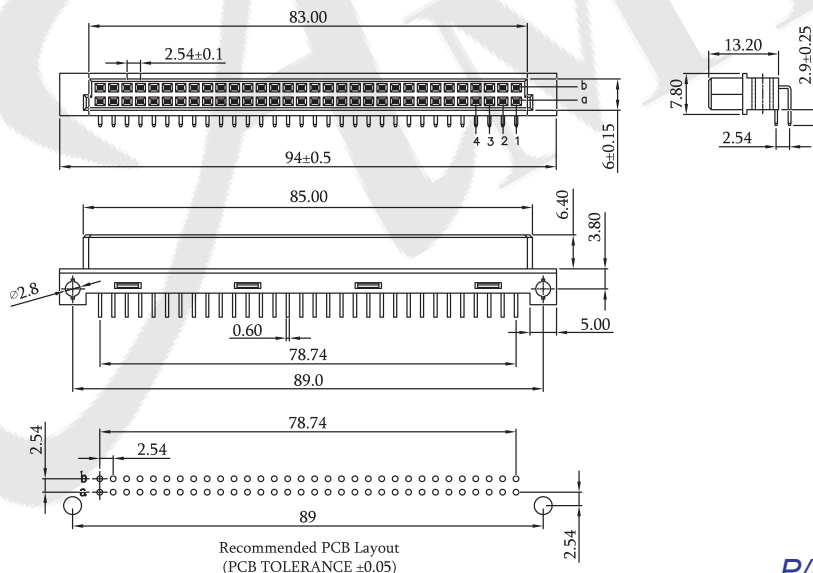
DIN 41612 Long Body Q Type Female

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Contact Resistance: 30mΩ Max.
Dielectric Voltage: 1000V AC for one minute
Operation Temperature: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Brass



Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	L2B	64	A B	
2.54mm	L2D	32	A --	
5.08mm	L2F	32	A B	
5.08mm	L2H	16	A --	

P/N.:5DINRL2XNF-XXXXWAB01

ORDER INFORMATION

5	D	I	N	X	L	2	X	X	X	-	X	X	X	X	W	A	B	0	1
				R:Right Angle S:Straight	L:Long Body	2:2 Row	See Table	DIP Length For Right Angle For Straight N:W/O Lock W/O Lock A:4.0mm		No. of Contacts See Table		G0:Gold Flash GA:Au 5u" GB:Au 10u" GF:Au 15u" GD:Au 30u"		S0:Selective Au S3:Selective Au 3u" SA:Selective Au 5u" T0:Tin Plated					
														W:Natural		A:Tray			

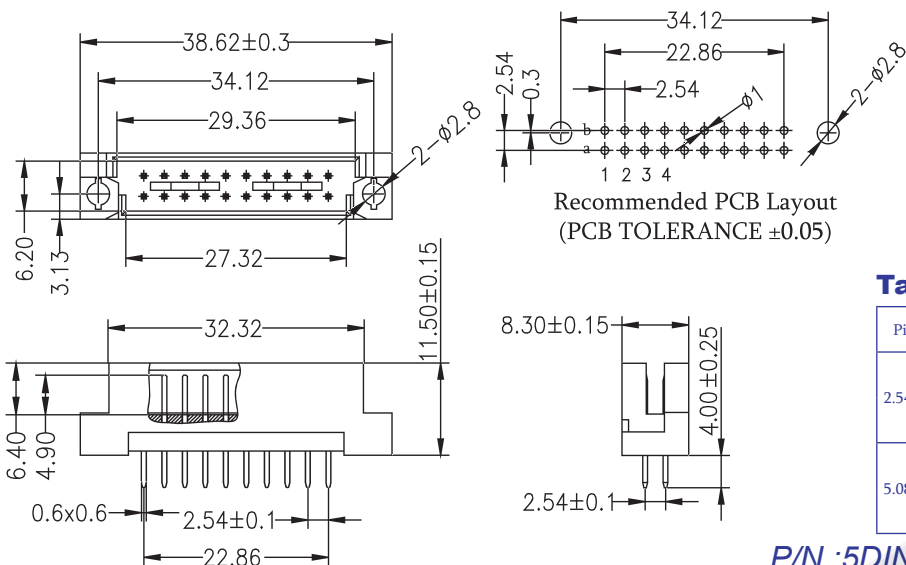
DIN 41612 Short Body Q Type Male

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Contact Resistance: 30mΩ Max.
Dielectric Voltage: 1000V AC for one minute
Operation Temperature: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Brass



Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	S2B	20	A B	
	S2D	10	A --	
5.08mm	S2F	10	A B	
	S2H	5	A --	

P/N.:5DINSS2XAM-XXXXWAB01

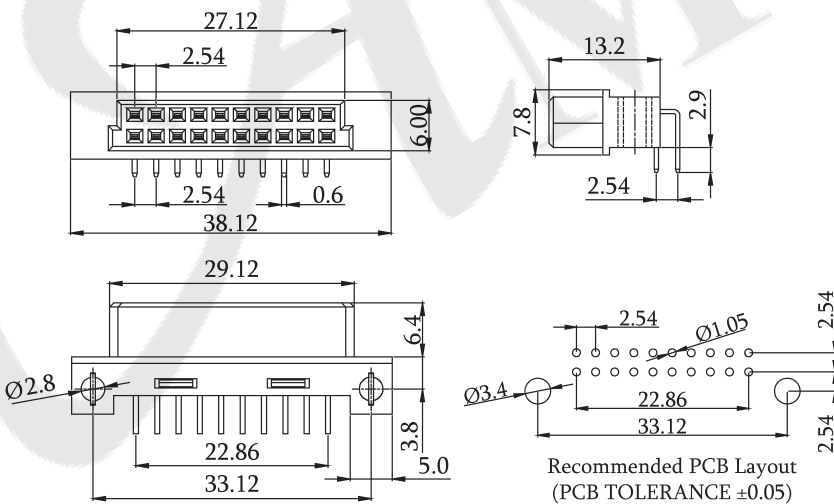
DIN 41612 Short Body Q Type Female

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Contact Resistance: 30mΩ Max.
Dielectric Voltage: 1000V AC for one minute
Operation Temperature: -25°C to +85°C

Material

Insulator: PBT, UL 94V-0
Terminal: Copper Alloy



Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	S2B	20	A B	
	S2D	10	A --	
5.08mm	S2F	10	A B	
	S2H	5	A --	

P/N.:5DINRS2XXF-XXXXWAB01

ORDER INFORMATION

5	D	I	N	X	S	2	X	X	X	-	X	X	X	X	W	A	B	0	1
R: Right Angle S: Straight				S: Short Body		2: 2:2 Row		See Table		DIP Length For Right Angle For Straight N: W/O Lock W/O Lock 1: With Lock A: 4.0mm		M: Male F: Female		No. of Contacts See Table		S0: Selective Au SA: Selective Au 5u" SB: Selective Au 10u" SF: Selective Au 15u" SD: Selective Au 30u" G0: Gold Flash T0: Tin Plated		W: Natural A: Tray	

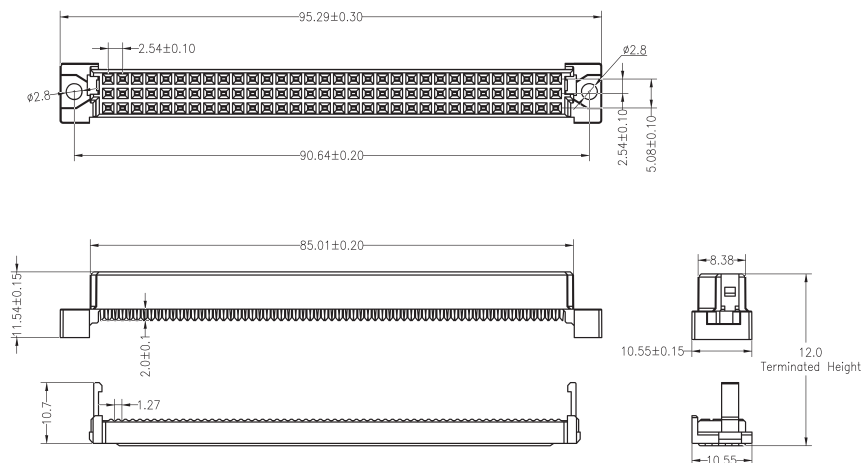
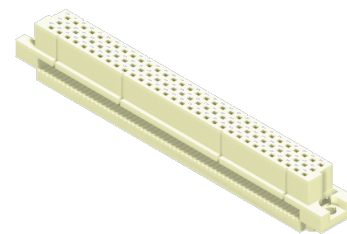
DIN 41612 Long Body IDC Type Female 3 Row 64 Pin

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min. At DC 500V
Contact Resistance: 30mΩ Max. At DC 100mV
Dielectric Voltage: 1000V AC for one minute
Operation Temperature: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Phosphor Bronze



Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	L3C	64	A -- C	

P/N.:5DINIL3CNF-64XXWAB01

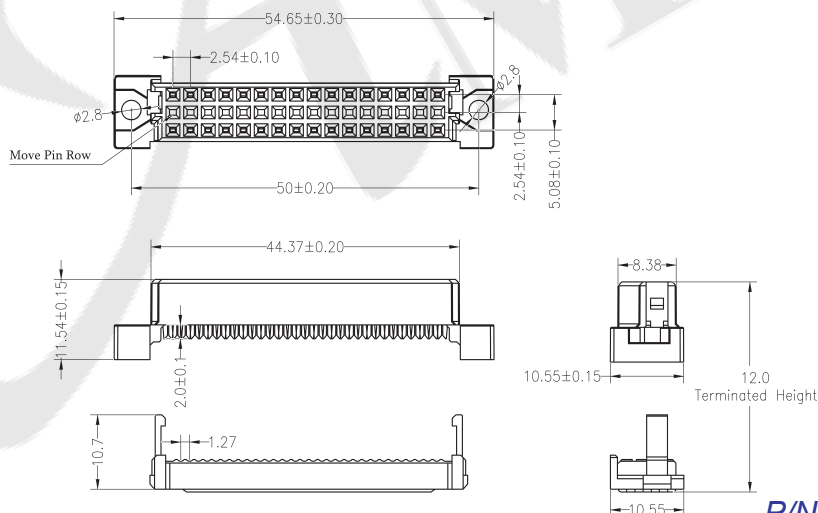
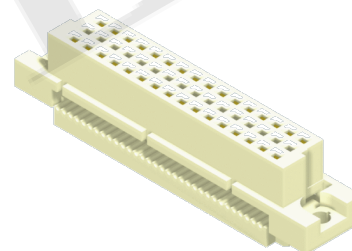
DIN 41612 Short Body IDC Type Female 3 Row 32 Pin

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Contact Resistance: 30mΩ Max.
Dielectric Voltage: 1000V AC for one minute
Operation Temperature: -40°C to +105°C
Max Processing Temp.: 180°C For 30-60 seconds
(200°C For 10 seconds)

Material

Insulator: PBT, UL 94V-0
Terminal: Phosphor Bronze



Table

Pitch	P/N	No. of Contacts	Rows with Contacts	Contact Arrange
2.54mm	S3C	32	A -- C	

P/N.:5DINIS3CNF-32S0WAB01

ORDER INFORMATION

5	D	I	N	I	X	3	C	N	F	-	X	X	X	X	W	A	B	0	1
					I:IDC Type	3:3 Row		N:W/O Lock		No. of Contacts See Table		S0:Selective Au SF:Selective Au 15u" SD:Selective Au 30u"		W:Natural		A:Tray			
					S:Short Body L:Long Body	See Table 2.54 C:AC		F:Female											

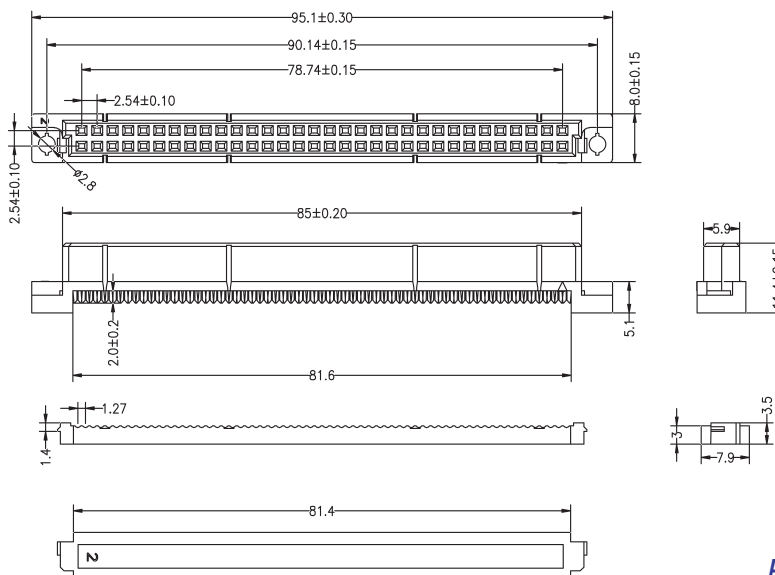
DIN 41612 Long Body IDC Type Female 2 Row 64 Pin

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000M Ω Min.
Dielectric Voltage: 1000V AC for one minute
Contact Resistance: 30m Ω Max.
Temperature Range: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Phosphor Bronze



P/N.:5DINIL2BNF-64S0WAB01

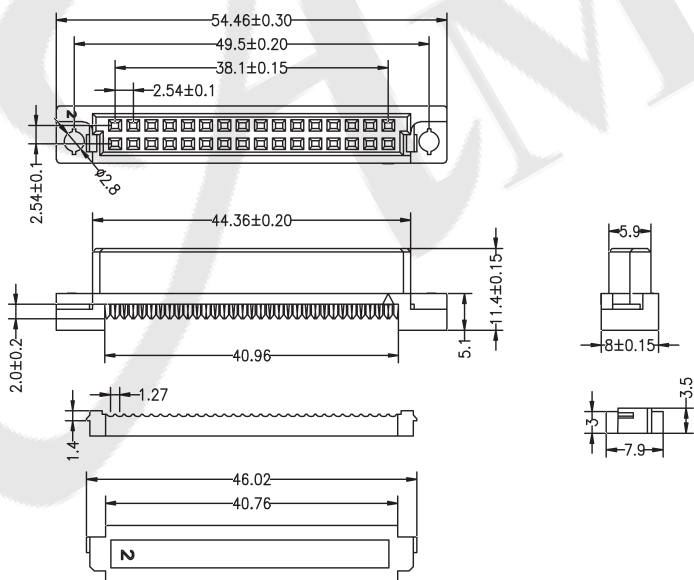
DIN 41612 Short Body IDC Type Female 2 Row 32 Pin

Specifications

Current Rating: 3 AMP
Insulation Resistance: 1000MΩ Min.
Dielectric Voltage: 1000V AC for one minute
Contact Resistance: 30mΩ Max.
Temperature Range: -40°C to +105°C

Material

Insulator: PBT, UL 94V-0
Terminal: Phosphor Bronze



P/N.:5DINIS2BNF-32S0WAB01

ORDER INFORMATION

