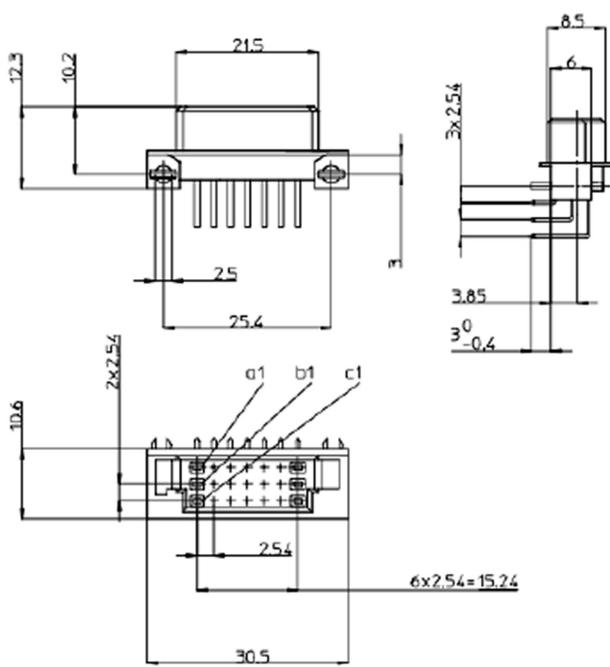


Valukumpu Oy

Type R/4, Reversed, IEC603, DIN 41612

Two Part Connectors for PCB



Female Connector

#### General Description

The DIN 41612 R/4 type body offers a choice of nine contact arrangements over 3 rows. It has an overall width of 30mm and is only available in a reversed female connector and is a quarter length R body DIN41612.

This is a PCB mounted connector and is available in a right angle mounted version for boards up to 1.6mm thick; Two straight solder tail options for boards up to 1.6mm or 2.4mm in thickness, with the 2.4mm thickness also being suitable for press-fit between 1.5mm and 4.0mm in thickness. Three lengths of wire wrap tail style are also available.

Each DIN 41612 connector is offered with a number of different contact and termination finishes.

#### Electrical Specification

Current Rating:	1.5A at 20°C
Normal Pins:	1A at 80°C 0.75A at 100°C
Proof Voltage:	Contact/contact 1000Vrms Contact/Test Panel 1550Vrms
Contact Resistance:	$\leq 20 \text{ m}\Omega$
Insulation Resistance:	$\geq 10^6 \text{ M}\Omega$
Connector Type:	Female

#### Materials

Connector Body:	Glass fibre filled polyester
Female Contact:	Phosphor Bronze
Male Contact:	Copper Alloy
Contact Plating:	Ni / Au Ni / PdNi / Au

#### Environmental

Temp Range:	-55 to +125°C
Flammability:	UL 94 V-O
Insertion Force:	32 pole $\leq 30\text{N}$ 64 pole $\leq 60\text{N}$ 96 pole $\leq 90\text{N}$
Retention Force:	$\geq 0.15 \text{ N} / \text{Contact pair}$
Mechanical endurance, salt mist, industrial atmosphere and other requirements according to IEC603	
Quality	
Contact surfaces mechanically polished	
Dual-beam female contact profiled to trapezoidal form.	



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Two Part Connectors for PCB

VK - R/4 014 F S - C1 A - 0,8 / 5 -001 -NP

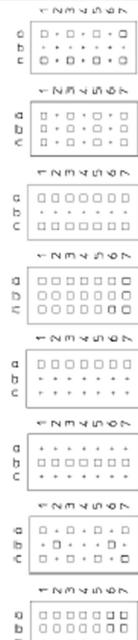
**R/4**

CONNECTOR TYPE

Three row body 1A Reversed Quarter length R	R/4
--	-----

**014**

CONTACT ARRANGEMENT  
AND NUMBER OF POSITIONS



008

012

014

021

A07

B07

X10

B14

Special types

Z

**M**

TYPE OF CONTACT

Female	F
Male	M

**S**

TYPE OF TERMINATION

Solder	S
Wrap	W
Press-in	P

**C1**

Complete connector with contact finish  
of gold

**A**

TERMINATION STYLE

	F	MP	M
Right angle solder tail for 1.6 mm thick boards	A		
Straight solder tail for 1.6 mm thick boards	D		
Straight solder tail for 2.4 mm thick boards (Press-in from 1.5 to 4.0 mm)	E		
Wire wrap tail	F		
Wire wrap tail	H		
Wire wrap tail	L		

**0,8**

CONTACT FINISH

0,8	0.8 µm hard gold over 2 µm nickel
1,25	1.25 µm hard gold over 2 µm nickel
2,5	2.5 µm hard gold over 3 µm nickel
...	other platings on request

**5**

TERMINATION FINISH

1	1 µm tin over nickel on press-in area
5	5 µm tin over nickel
1,25	1.25 µm gold over nickel on contact area (5mm from the end)
0,1	0.1 µm gold over nickel
...	other platings on request

**-001**

MARKING FOR SPECIAL TYPES

Eg First Make – Last Break Option:  
Male pins in any row may be extended  
0.50 mm for ground before signal  
in types D and E.

**-NP**

ALTERNATIVE CONTACT FINISH

Gold flash over nickel palladium over  
nickel



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