



System Overview

RAST 5



## Series 36

## RAST 5 connectors

pitch 5.0 mm (0.197")

Direct and indirect mating, for cable-to-board and cable-to-cable connections with insulation displacement or screw clamp termination. Keying according to RAST 5 standard avoids mismating.

For signal and load currents up to 16 A.



RAST 5 connectors for indirect

mating, insulation displacement technology

with exterior locking 3623, 3625 (362... 01 locking on tab)

with interior locking 3626, 3627, 3628 (3628 chassis connector)

mating with tab or tab headers 3618, 364..., 367..., 3680, 3683



RAST 5 connectors for indirect mating, insulation displacement technology, for use in a higher temperature range

with exterior locking

with interior locking 3628-1 chassis connector

3625-1

mating with tab or tab headers



3611 - 3615

with interior locking

latch)

3611 straight cable exit

RAST 5 connectors for indirect mating, with screw terminals

3615 angular cable exit, opposite

**3615-2** angular cable exit, on side of locking (**3615-3** with handle

to locking (3615-1 with handle

mating with tab or tab headers

2-7

2.5 mm<sup>2</sup>

10 A at  $T_{amb}$   $T_{U}$  70 °C

3618, 364..., 367..., 3680, 3683

ing, insulation displacement technology

3633

with exterior locking by means of quide frame

RAST 5 connectors for direct mat-

mating with printed circuit board (by means of guide frame 3602)

**3633** 6 A/0,75 mm<sup>2</sup> at T<sub>amb</sub> 70 °C **3633 S01** 4 A/0,38 mm<sup>2</sup> at T<sub>amb</sub> 70 °C

RAST 5 connectors for direct mat-

ing, insulation displacement tech-

nology, with or without keying rib

with or without locking on printed

mating with printed circuit board

mating with printed circuit board (**3612** by means of guide frame

3612 with interior locking **3613** with or without keying rib and closed sides **3614** alternatively with or without keying rib and (shorter) closed

sides

3612 · 3613 · 3614

3615, 362...

3641-3645

RAST 5 connectors for direct mating, with screw terminals

RAST 5 tab header

upright **3641** with spigot **364197** pottable angular **3642** topside lock 3643 lower side lock

3644 lower side lock, higher version, with spigot **3645** lower side lock, higher ver-

364...99 with pre-mating protective contacts

mating with connectors 3611,

2-12

**364197** 2-3

mating with conr 3615, 362...

Pole number

Contact spring

Insulating body

Connectable wire section<sup>2</sup>

Rated current

Rated voltage

**3623** 1–12 **3625** 1-4

**3626** 2-12 **3627** 2-4 **3628** 8

**362...**, PA, V2 according to UL 94 **362... M08** PA<sup>1</sup>, V2 acc. to UL 94

**3623**, **3626** CuSn, tin-plated 3625, 3627, 3628 CuSn, silverplated

**362... M20** PA, V0acc. to UL 94

3623, 3626 0.22-1.0 mm<sup>2</sup> 3625, 3627, 3628 0.75-1.5 mm<sup>2</sup>

3623. 3626 10 A/0.75 mm<sup>2</sup> 3623 S01, 3626 S01 5 A/0.38 mm 3625, 3627 16 A/1.50 mm<sup>2</sup> 3625, 3627, 3628 12 A/1.0 mm<sup>2</sup> at T<sub>amb</sub> 70 °C

**3625-1** 2-4 **3628-1**8

PA, V2 according to UL 94

Cu alloy, silver-plated

0.75-1.0 mm<sup>2</sup>

10,5 A at T<sub>amb</sub> 120 °C

**361...** PA GF, V2 acc. to UL 94 **3611 M08** PA GF<sup>1</sup>, V0 acc. to UL 94 363... PA, V2 according to UL 94

363... M08 PA1, V2 according to UL 94

2-12

3636

and closed sides

circuit board

**361... M08** PA GF<sup>1</sup>, V0 acc. to UL 94

CuSn, tin-plated

0.34-0.82 mm<sup>2</sup>

**3636** 6 A/0,75 mm<sup>2</sup> at T<sub>amb</sub> 70 °C **3636 S01** 4 A/0,38 mm<sup>2</sup> at T<sub>amb</sub> 70 °C

2-6

2.5 mm<sup>2</sup>

**361...** PA GF, V2 acc. to UL 94

6 A bei at T<sub>amb</sub> °C

<sup>1</sup> glow-wire resistant (GWT 750 °C), see specification at www.lumberg.com

<sup>2</sup> range of values of conductors approved by laboratory tests; covering various geometries of insulation displacement terminations

3649

3649 lower side l

Dual row RAST 5

2x\*

364.

250 \



								passion for connections
tab header	3671 · 3672 · 3673 · 3674  Free-to-configure system of tab	3676 · 3677 · 3678 · 3679  Free-to-configure system of tab	3686 · 3687  Free-to-configure system of socket	3680 · 3683  Free-to-configure system of com-	3647 · 3648  RAST 5 tab header, insulation dis-	3647-1  RAST 5 tab header, insulation dis-	3618  RAST 5 tab header, with screw	3602 RAST 5 guide frame
	headers, with or without separa- tions	headers, with or without separa- tions as well as neutral and pro- tective conductor bridge in insu- lation displacement technology	boards, with or without separations as well as neutral and protective conductor bridge in insulation displacement technology	bined tab headers and socket boards, with or without separations as well as neutral and protective conductor bridge in insulation displacement technology	placement technology	placement technology, for use in a higher temperature range	terminals	
lock	upright 3671 with spigot angular 3672 topside lock 3673 lower side lock 3674 lower side lock, higher version, with spigot 36799 with pre-mating protective contacts	upright 3676 with spigot  angular 3677 topside lock 3678 lower side lock 3679 lower side lock, higher version, with spigot	3686 upright 3687 angular	3680 upright 3683 angular	3647 without locking latches 3648 with locking latches for chassis mounting	<b>3647-1</b> without locking latches	3618 cable exit opposite to locking (3618-1 with handle latch) 3618-2 cable exit on side of locking (3618-3 with handle latch) 361899 with pre-mating protective contacts	<b>3602</b> guide frame for use with connectors 3612, 3633
nectors 3611,	mating with connectors 3611, 3615, 3623, 3626	mating with connectors 3611, 3615, 3623, 3626	mating with connectors 3618, 3647	mating tab headers with connectors 3611, 3615, 3623, 2626 and socket boards with connectors 3618, 3647	mating with connectors 3611, 3615, 362, 368	mating with connectors 3625-1 and 3628-1	mating with connectors 3611, 3615, 3623, 3626, 368	
<b>x</b> 12	3–27			3680 2-25 3683 2-27	2–8	8	2-7	2–12
PA GF¹, V0 according to UL 94					PA <sup>1</sup> , V2 according to UL 94		PA GF <sup>1</sup> , V2 according to UL 94	PA GF <sup>1</sup> , V0 according to UL 94
CuZn, pre-nickel and tin-plated V167 CuZn, pre-nickel and silver-plated CuSn, tin-plated			CuSn/CuZn, pre-nickel and tin- plated (tabs) CuSn, tin-plated (sockets)	CuSn, tin-plated	CuSn, silver-plated	CuZn, tin-plated		
					<b>3647</b> 0.5–0.72 mm <sup>2</sup> <b>3648</b> 0.5–0.82 mm <sup>2</sup>	1.0–1.5 mm²	2.5 mm <sup>2</sup>	
10 A at T <sub>amb</sub> 70 °C <b>364 V167</b> 16 A at T <sub>amb</sub> 70 °C					10 A/0,75 mm² at T <sub>amb</sub> 60 °C 6 A/0,75 mm² at T <sub>amb</sub> 90 °C	10,5 A at T <sub>amb</sub> 120 °C	10 A at T <sub>amb</sub> 70 °C	
V AC				I	Z/A	KA F		



# Series 37

## RAST 7.5 Power™ connectors

pitch 7.5 mm (0.295")

Indirect mating, for cable-to-boardconnections, insulation displacement technology. Keying following RAST 5 standard avoids mismating.

For load currents up to 25 A.



3723

RAST 7.5 Power™ connector for indirect mating, insulation dis-placement technology

with exterior locking

mating with tab header 3741



3741

RAST 7.5 Power™ tab header

upright, with positioning spigot

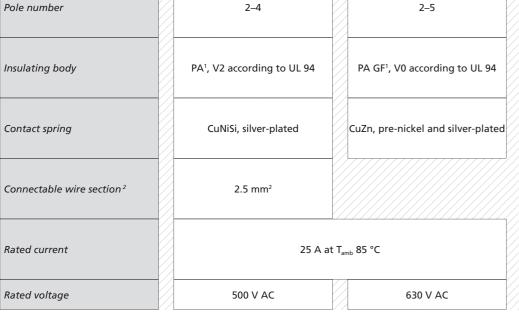
mating with connector 3723



Tools and harnessing machines

Efficient Harnessing

From manual tongs over hand presses, various semiautomatic harnessing machines to our premium products, our fully automatic harnessing machines from our VARICON™ line: We offer from one source all options for efficient termination of cables with our connectors - no matter if low, middle or high-volume production.







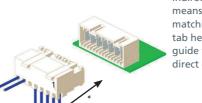


#### <sup>1</sup> glow-wire resistant (GWT 750 °C), see specification at www.lumberg.com



#### **KEYING** of RAST 5 connectors according to RAST 5 standard

360... · 361... · 362... · 3633 Indirect connectors 364... · 367... · 368...



Indirect connectors are keyed by means of keying noses (K). The matching keying windows of the tab header are open (same with guide frame in combination with direct connectors).



**Direct connectors** 

3636

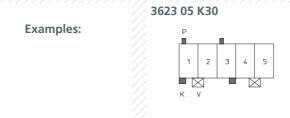
Direct connectors are keyed by keying ribs (K), closed sides (positioning, P) and locks (V). The printed circuit board has matching reliefs.





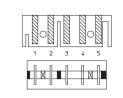
All drawings in view of mating direction (\*), from female to male connector.

A selection of proposed keyings can be found on the Internet at www.lumberg.com



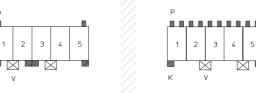


**Examples:** 



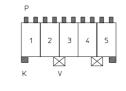
3636 05 K02

keying: P1 P2 K2/3 V1/2 V4/5



keying: P 1a 5b, K 1c 2d 3c 5d,

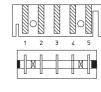
3623 05 K31



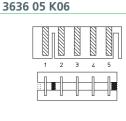
3623 05 K42

keying: P 1ab 2ab 3ab 4ab 5ab, K 1c 5d, V 2/3 4/5

3636 05 K04



keying: P1 P2 V1/2 V4/5



keying: P2 K1/2

<sup>&</sup>lt;sup>2</sup> range of values of conductors approved by laboratory tests; covering various geometries of insulation displacement terminations



 $www.lumberg.com \cdot info@lumberg.com$