Lumberg
passion for connections

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 mismatching.

For signal and load currents up to 16 A.

3623 · 3625–3628

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

3625-1 · 3628-1

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

with exterior locking
3625-1

with interior locking
3628-1 chassis connector

mating with tab or tab headers 3647-1

3611 · 3615

RAST 5 connectors for indirect mating, with screw terminals

with interior locking
3611 straight cable exit
3615 angular cable exit, opposite to locking (**3615-1** with handle latch)
3615-2 angular cable exit, on side of locking (**3615-3** with handle latch)

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

3633

RAST 5 connectors for direct mating, insulation displacement technology

with exterior locking by means of guide frame

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

3636

RAST 5 connectors for direct mating, insulation displacement technology, with or without keying rib and closed sides

with or without locking on printed circuit board

mating with printed circuit board

3612 · 3613 · 3614

RAST 5 connectors for direct mating, with screw terminals

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

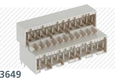
mating with printed circuit board (**3612** by means of guide frame 3602)

3641–3645

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 version

mating with connectors 3611, 3615, 362...



3649

Dual row RAST 5 tab header

angular
3649 with lower side lock

mating with connectors 3611, 3615, 362...

3671 · 3672 · 3673 · 3674

Free-to-configure system of tab headers, with or without separations

upright
3671 with spigot
angular
3672 topside lock
3673 lower side lock
3674 lower side lock, higher version, with spigot

367...99 with pre-mating protective contacts

mating with connectors 3611, 3615, 3623, 3626

3676 · 3677 · 3678 · 3679

Free-to-configure system of tab headers, with or without separations as well as neutral and protective conductor bridge in insulation displacement technology

upright
3676 with spigot

angular
3677 topside lock
3678 lower side lock
3679 lower side lock, higher version, with spigot

mating with connectors 3611, 3615, 3623, 3626

3686 · 3687

Free-to-configure system of socket boards, with or without separations as well as neutral and protective conductor bridge in insulation displacement technology

3686 upright
3687 angular

mating with connectors 3618, 3647

3680 · 3683

Free-to-configure system of combined tab headers and socket boards, with or without separations as well as neutral and protective conductor bridge in insulation displacement technology

3680 upright
3683 angular

mating tab headers with connectors 3611, 3615, 3623, 2626 and socket boards with connectors 3618, 3647

3647 · 3648

RAST 5 tab header, insulation displacement technology

3647 without locking latches
3648 with locking latches for chassis mounting

mating with connectors 3611, 3615, 362..., 368...

3647-1

RAST 5 tab header, insulation displacement technology, for use in a higher temperature range

3647-1 without locking latches

mating with connectors 3625-1 and 3628-1

3618

RAST 5 tab header, with screw terminals

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

mating with connectors 3611, 3615, 3623, 3626, 368...

3602

RAST 5 guide frame

3602 guide frame for use with connectors 3612, 3633

Pole number	**3623** 1–12 **3625** 1–4 **3626** 2–12 **3627** 1–4 **3628** 8	**3625-1** 2–4 **3628-1** 8	2–7	2–12	2–12	2–6	2–12	2x12	3–27	2–26	**3680** 2–25 **3683** 2–27	2–8	8	2–7	2–12
Insulating body	**362...**, PA, V2 according to UL 94 **362... M08** PA[1], V2 acc. to UL 94 **362... M20** PA, V0 acc. to UL 94	PA, V2 according to UL 94	**361...**, **363...** PA, V2 according to UL 94 **3615**, **361... M08**, **363... M08** PA[1], V2 according to UL 94				PA GF[1], V0 according to UL 94					PA[1], V2 according to UL 94		PA GF[1], V2 according to UL 94	PA GF[1], V0 according to UL 94
Contact spring	**3623**, **3626** CuSn, tin-plated **3625**, **3627**, **3628** CuSn, silver-plated	Cu alloy, silver-plated	CuSn, tin-plated				**364...** CuZn, pre-nickel and tin-plated **364... V167** CuZn, pre-nickel and silver-plated		CuZn, pre-nickel and tin-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	
Connectable wire section[2]	**3623**, **3626** 0.22–1.0 mm² **3625**, **3627**, **3628** 0.75–1.5 mm²	0.75–1.0 mm²	2.5 mm²	0.22–0.82 mm²		2.5 mm²						0.5–0.82 mm²	1.0–1.5 mm²	2.5 mm²	
Rated current	**3623**, **3626** 10 A/0.75 mm² **3623 S01**, **3626 S01** 5 A/0.38 mm² **3625**, **3627** 16 A/1.50 mm² **3625**, **3627**, **3628** 12 A/1.0 mm² all at T_{amb} 70 °C	10.5 A at T_{amb} 120 °C	10 A bei at T_{amb} 70 °C	**3633** 6 A/0.75 mm² at T_{amb} 70 °C **3633 S01** 4 A/0.38 mm² at T_{amb} 70 °C	**3636** 6 A/0.75 mm² at T_{amb} 70 °C **3636 S01** 4 A/0.38 mm² at T_{amb} 70 °C	6 A at T_{amb} 70 °C	**364...** 10 A at T_{amb} 70 °C **364... V167** 16 A at T_{amb} 70 °C	10 A at T_{amb} 70 °C	10 A at T_{amb} 70 °C	10 A at T_{amb} 70 °C		10 A/0.75 mm² at T_{amb} 60 °C 6 A/0.75 mm² at T_{amb} 90 °C	10.5 A at T_{amb} 120 °C	10 A at T_{amb} 70 °C	
Rated voltage	250 V AC														

[1] glow-wire resistant (GWT 750 °C), see specification at www.lumberg.com
[2] range of values of conductors approved by laboratory tests; covering various geometries of insulation displacement terminations

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Series 36

RAST 7.5 Power™ connectors

pitch 7.5 mm (0.295")

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

For load currents up to 25 A.

3690

RAST 7.5 Power™ connector for indirect mating, insulation displacement technology

with exterior locking

mating with tab header 3695

3695

RAST 7.5 Power™ tab header

upright, with positioning spigot

mating with connector 3690

Pole number	1–2	2–4
Insulating body	PA[1], V2 according to UL 94	PA GF[1], V0 according to UL 94
Contact spring	CuNiSi, silver-plated	CuZn, pre-nickel and silver-plated
Connectable wire section[2]	2.5 mm²	
Rated current	25 A at $T_{amb.}$ 85 °C	
Rated voltage	500 V AC	630 V AC

[1] glow-wire resistant (GWT 750 °C), see specification at www.lumberg.com
[2] range of values of conductors approved by laboratory tests; covering various geometries of insulation displacement terminations

Series 97

Tools and harnessing machines

Efficient Harnessing

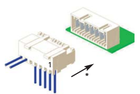
From manual tongs over hand presses, various semiautomatic harnessing machines to our premium products, our fully automatic harnessing machines from our VARICON™ line: We offer from one source all options for efficient termination of cables with our connectors – no matter if low, middle or high-volume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

Lumberg
passion for connections

KEYING of RAST 5 connectors according to RAST 5 standard

Indirect connectors

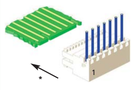
360... · 361... · 362... · 3633 · 364... · 367... · 368...



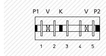
Indirect connectors are keyed by means of keying noses (K). The matching keying windows of the tab header are open (same with guide frame in combination with direct connectors).

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:

3623 05 K30

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

3623 05 K31

keying: **P 1a 5b, K 1c 2d 3c 5d, V 1/2 3/4**

3623 05 K42

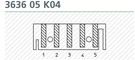
keying: **P 1ab 2ab 3ab 4ab 5ab, K 1c 5d, V 2/3 4/5**

Examples:

3636 05 K02

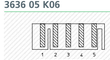
keying: **P1 P2 K2/3 V1/2 V4/5**

3636 05 K04



keying: **P1 P2 V1/2 V4/5**

3636 05 K06



keying: **P2 K1/2**

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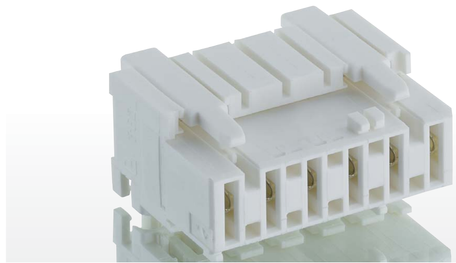

System Overview

RAST 5