

Series 35 RAST 2.5 connectors	3520 · 3521 · 3522 · 3523	3521 · 3522	352100 · 352300	5510 · 3511 · 3517 · 3518	3512 · 3513 · 3515 · 3516	3511 · 3512	355	355099 · 355299	355095 · 355295	3541 · 3542 · 3545 · 3546	83545 · 83546	357	357099	357000	3501 · 3500
oitch 2.5 mm (0.098") oitch 5.0 mm (0.197")	RAST 2.5 connectors for direct and indirect mating, insulation dis- placement technology	RAST 2.5 connectors for direct and indirect mating, insulation displacement technology	RAST 2.5 plus™ connectors for di- rect and indirect mating, insulation displacement technology, with double-sided keying	RAST 2.5 connectors for direct mating, insulation displacement technology, with or without key- ing rib and closed sides	RAST 2.5 connectors for direct mating, insulation displacement technology	RAST 2.5 connectors for direct mating, insulation displacement technology, with or without key- ing rib and closed sides	RAST 2.5 pin headers	RAST 2.5 plus™ pin headers, with double-sided keying	RAST 2.5 plus™ pin headers, in surface mount technology (SMT), with double-sided keying	RAST 2.5 pin headers, insulation displacement technology, with locking latches	RAST 2.5 double chassis pin headers	RAST 2.5 Power connectors for direct and indirect mating, insu- lation displacement technology	RAST 2.5 Power connector for di- rect and indirect mating, insula- tion displacement technology, with double-sided keying	RAST 2.5 Power plus™ connector for direct and indirect mating, in- sulation displacement technology, with double-sided keying	RAST 2.5 guide frame and handle latch
irect and indirect mating, for able-to-board and cable-to-cable- onnections, insulation displace- ent technology. Keying according o RAST 2.5 standard avoids mis- nating. or signal and load currents up to A RAST 2.5. Power connectors up	<b>3521, 3523</b> for exterior locking <b>3520, 3522</b> with interior locking (locking and keying by means of guide frame or pin header) mating with printed circuit board	details on theleft (352)3521 for flat cables, daisy chain3522 for flat cables or discrete wiresImage: Comparison of the second se	mating with printed circuit board	<b>3510, 3511</b> without locking <b>3517, 3518</b> with locking toes <b>3517-4</b> with enhanced locking toes mating with printed circuit board	with or without keying rib and closed sides <b>3512, 3513</b> with lateral locking hooks with keying rib <b>3515, 3516</b> with internal locking hooks mating with printed circuit board	details on theleft (351)3511 for flat cables, daisy chain3512 for flat cables or discrete wiresImage: Construction of the second	upright 3551, 3553 interior locking 3550, 3552 locking latch angular 3555, 3557 interior locking 3554, 3556 locking latch mating with connectors 352,	upright <b>355099, 355299</b> with locking latch mating with connectors 3521,	upright 355095, 355295 with locking latch and positioning spigot mating with connectors 3521,	<b>3541, 3542</b> without chassis latches <b>3545, 3546</b> with latches for chassis mounting mating with connectors 3521,	83545, 83546 straight, with lock- ing latches mating with connectors 3521,	<b>3570</b> for direct and indirect mat- ing, locking and keying by means of guide frame or pin header <b>3575</b> for direct mating, with or without locking hooks for locking on printed circuit board, with or without keying rib and closed sides mating	locking and keying by means of guide frame or pin header	locking and keying by means of guide frame or pin header mating with printed circuit board	<b>3501</b> for interior locking for connectors 3520, 3522 <b>3500</b> with locking latch for use with connectors 3521, 3523, 3570
o 10 A.	(by means of guide frame 350) or pin headers 354, 355, 8354 mating with printed circuit board (by means of guide frame 350) or pin headers 354, 355, 8354 2.5 mr		(by means of guide frame 350) or pin headers 354, 355, 8354 n (always the first mentioned type) or	or 5.0 mm (always the second mention	oned type)	mating with printed circuit board	3570 2.5 mm (alwa	3523, 3570 ys the first mentioned type) or 5.0 m	3523, 3570	2.5 mm (always the first mention	3523, 3570 ned type) or 5.0 mm (second type)	<b>3570</b> with printed circuit board (by means of guide frame 350) or pin headers 354, 355, 83546 <b>3575</b> with printed circuit board	(by means of guide frame 350) or pin headers 354, 355, 83546	(by means of guide frame 350) or pin headers 3542, 3546 or pin headers 3552, 3556, 83546	2.5/5.0 mm
ole number	<b>3521</b> 2–20 <b>3520</b> 4–20 ( <b>3520-1</b> 4–10) <b>3523</b> 2–10 <b>3522</b> 3–10 ( <b>3522-1</b> 3–5)		<b>352100</b> 3-11 <b>352300</b> 2-6	<b>3510, 3512, 3517,</b> 2–20 ( <b>351</b> 2–10, <b>354</b> 2–9) <b>3515</b> 3–18 ( <b>3515-1</b> 3–10) <b>3511, 3513, 3518,</b> 2–10 ( <b>351</b> 2–5) <b>3516</b> 2–10 ( <b>3516-1</b> 3–6, <b>3516-2</b> 3–10)			<b>3551, 3555</b> 3–20 <b>3550, 3554</b> 2–20 <b>3552, 3553, 3556, 3557</b> 2–10	<b>355099</b> 3–11 <b>355299</b> 2–7	355095 3-11 355295 2-6	<b>3541, 3545</b> 2–12 <b>3542, 3546</b> 2–10	83545 3-4 83546 2	2-10	2-7	2–8	3–20
nsulating body	<b>352</b> PBT, V0 according to UL 94 <b>352 M12</b> PA <sup>1</sup> , V2 according to UL 94		PA <sup>1</sup> , V0 according to UL 94	351, 35250 PBT, V0 according to UL 94 351 M12, 35250 M12 PA <sup>1</sup> , V2 according to UL 94			PA GF <sup>1</sup> , V0 according to UL 94			<b>354</b> PBT GF, V0 acc. to UL 94 <b>354 M13</b> PA GF <sup>1</sup> , V0 acc. to UL 94	PA GF <sup>1</sup> , V0 according to UL 94	<b>357, 357099</b> PBT GF, V0 according to UL 94 <b>357M09</b> PA <sup>1</sup> , V2 according to UL 94		PA, V0 according to UL 94	PBT GF, V0 according to UL 94
ontact spring		CuSn, tin-plated		351 CuSn, tin-plated 351V03 CuSn, tin-plated (Sn/Ag) (pitch 2.5 mm, 2-9 poles and pitch 5.0 mm, 2-5 poles) 351V102 CuSn, pre-nickel and gold-plated			<b>355</b> CuZn, pre-nickel and tin-plated <b>355V04</b> CuZn, pre-nickel and silver-plated (only pitch 5.0 mm)		CuSn, tin-plated	CuZn, pre-nickel and tin-plated	<b>357</b> Cu alloy, silver-plated <b>357V03</b> Cu alloy, tin-plated (Sn/Ag)		357000 CuSn, tin-plated 357000 V168 CuSn, silver-plated		
connectable wire section <sup>2</sup>	0.13–0.45 mm²	0.13–0.45 mm <sup>2</sup> 0.22–0.35 mm <sup>2</sup>		0.13–0.	.45 mm²	0.22–0.35 mm <sup>2</sup>				<b>354</b> 0.23–0.5 mm <sup>2</sup> <b>3541</b> 0.34–0.5 mm <sup>2</sup>		0.35–0.82 mm <sup>2</sup>		0.5–0.75 mm <sup>2</sup>	
Pated current	4 A at T <sub>amb</sub> 60 ℃ 2 A at T <sub>amb</sub> 100 ℃						355 4/2 A at T <sub>amb</sub> 60/100 °C   355 V04 10/6 A at T <sub>amb</sub> 70 °C   (pitch 5.0 mm, 2-5-poles/6-10 poles)		4 A at $T_{amb}$ 60 °C, 2 A at $T_{amb}$ 100 °C, 6 A at $T_{amb}$ 85 °C (only pitch 5.0 mm)	4 A at T <sub>amb</sub> 60 °C 2 A at T <sub>amb</sub> 120 °C	6 A at T <sub>amb</sub> 70 °C <b>3570</b> 10 A at T <sub>amb</sub> 70 °C (with indirect mating, 2-5 poles) <b>357V03</b> 6 A at T <sub>amb</sub> 70 °C (max. 4 poles energized)		6 A at T <sub>amb</sub> 70 °C <b>357V168</b> 6 A at T <sub>amb</sub> 70 °C, 10 A at T <sub>amb</sub> 70 °C (with indirect mating, 2-4 poles)		
	32 V AC (pitch 2.5 mm), 250 V AC (pitch 5.0 mm), <b>352100</b> 80 V AC, <b>35595</b> 250 V AC										83545 160/40 VAC (poll. deg. 2/3)	400 V AC			

<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





## **KEYING** of RAST 2.5 connectors according to RAST 2.5 standard



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



## 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.

Our engineering professionals are shortly available worldwide for initial installation, upgrades and local trainings.



## passion for connections







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System Overview

