

System Overview

Micromodul · Minimodul · Multimodul

Insulation Displacement and Crimp Technology · Screw Terminal Blocks

Series 30

Micromodul™ connectors

pitch 1.27 mm (0.050")

Ideal for cable-to-board connections where space is at a premium. For signal and low load currents up to 1.2 A.



MICAL · MICALD

Micromodul™ solder-in connector, insulation displacement technology

solder contacts
MICAL dual row staggered
MICALD dual row parallel

mating with printed circuit board



MICA

Micromodul™ connector for direct mating, insulation displacement technology

MICA in bulk
MICA VP3 on reel

mating with tab headers MICS...



302299

Micromodul™ connector for direct mating, insulation displacement technology, with locking on printed circuit board by means of locking hooks and toes, with closed sides

for flat cables and discrete conductors

mating with printed circuit board



MICS...

Micromodul™ tab headers

for THT soldering
MICS upright, with retaining hooks
MICS-D upright, without hooks
MICSW angular, without hooks
solder contacts dual row staggered (**MICS-D** dual row parallel)

for SMT soldering
MICS/SMD upright, in bulk
MICS/SMD RP upright, on reel
solder contacts dual row staggered

mating with connector MICA...

Series 31

Minimodul™ connectors

pitch 2.5 mm (0.098")

Cable-to-board and board-to-board connections: easy harnessing of single leads and flat cables with crimp technology. Especially suitable for low and middle-volume production.

For signal and low load currents up to 5 A.



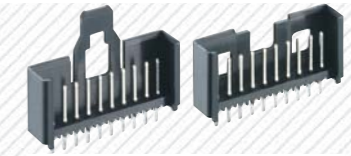
3114 · 3111

Minimodul™ connectors, crimp technology

empty socket housing
3114

crimp contacts
3111 ... L in bulk
3111 ... G on reel

mating with pin headers 2,5 MSF...



2,5 MSF...

Minimodul™ pin headers, upright

solder contacts single row
2,5 MSF/O
2,5 MSF with locking latch

solder contacts dual row staggered
2,5 MSFQ with locking latch

mating with connectors 3114/3111, 4143 01



2,5 MSFW...

Minimodul™ pin headers

solder contacts single row
2,5 MSFW with locking latch

mating with connectors 3114/3111, 4143 01

<i>Pole number</i>	4–26		4–22	4–26	<i>Pole number</i>	2–20	
<i>Insulating body</i>	PBT, V0 according to UL 94	PBT GF, V0 according to UL 94	PA GF, V0 according to UL 94		<i>Insulating body</i>	PBT, V0 according to UL 94	PA GF ¹ , V0 according to UL 94
<i>Contact spring</i>	CuSn, tin-plated MICA SEL 0.8 AU CuSn, gold-plated in contact area, tin-plated in insulation displacement area		302299 CuSn, pre-nickel and tin-plated 302299 V122 CuSn, pre-nickel and gold-plated in contact area, tin-plated in insulation displacement area	CuZn, pre-nickel and tin-plated	<i>Contact spring</i>	CuSn, tin-plated	CuZn, pre-nickel and tin-plated
<i>Connectable wire section²</i>	AWG 28 (0.090 mm ²) AWG 26 (0.140 mm ²)		AWG 26 (0.140 mm ²)		<i>Connectable wire section²</i>	3111 01 ... 0.10–0.25 mm ² 3111 03 ... 0.30–0.60 mm ²	
<i>Rated current</i>	1.2 A				<i>Rated current</i>	5 A at T _{amb} 30 °C 2.5 A at T _{amb} 70 °C	5 A
<i>Rated voltage</i>	32 V AC		125 V AC	160 V AC (MICS/SMD... 80 V AC)	<i>Rated voltage</i>	125 V AC (with pitch 2.5 mm) 250 V AC (with pitch 5.0 mm)	160 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 38

Multimodul™ connectors

pitch 2.5 mm (0.098")

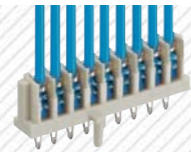
h header, angular

single row locking latch

For cable-to-board and board-to-board connections. Easy harnessing of single leads and flat cables with insulation displacement and crimp technology. Especially suitable for middle and high-volume production.

For signal and low load currents up to 5 A.

connectors 3114/3111,



3810

Multimodul™ solder-in connector, insulation displacement technology, with insulator crimp as strain relief and positioning spigots

3810

mating with printed circuit board



3823 · 3111

Multimodul™ connectors, crimp technology

empty socket housing **3823**

crimp contacts **3111 ... L** in bulk **3111 ... G** on reel

mating with pin headers 385..., 8385



385... · 8385

Multimodul™ pin headers with guide collar and locking latch

3850 upright, with retaining hooks **3853** angular, with retaining hooks **8385** double, feed-through connector for chassis mounting

mating with connectors 382..., 4143 01

Series 51

Direct connectors for insert cards

pitch 2.54 mm (0.100")
pitch 5.08 mm (0.200")

Sockets boards for insert cards, with solder pins for board-to-board or solder eyes for cable-to-board connections. With accessory keying inserts, mounting and guide flanges.

For signal and load currents up to 5 A.



8510

Socket board for direct mating, pitch 2.54 mm

8510

mating with printed circuit board



8514

Socket board for direct mating, with or without keying rib, pitch 5.08 mm

8514

mating with printed circuit board

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.



Pole number

2–20 (**8385** 2)

Insulating body

PA GF¹, V0 according to UL 94

3823 00 PBT GF, V0 acc. to UL 94
3823 30 PA GF¹, V0 acc. to UL 94

PA GF¹, V0 according to UL 94
(**8385** PBT, V0 according to UL 94)

Insulating body

PA GF¹, V0 according to UL 94

PPE/PS GF, V1 according to UL 94
8514 M13 PA GF¹, V0 acc. to UL 94

Contact spring

CuSn, tin-plated

CuZn, pre-nickel and tin-plated

Contact spring

CuSn, pre-nickel and tin-plated

Connectable wire section ²

0.196–0.22 mm²

3111 01... 0.10–0.25 mm²
3111 03... 0.30–0.60 mm²

Rated current

3 A

5 A at T_{amb} 30 °C
2.5 A at T_{amb} 70 °C

3 A at T_{amb} 60 °C

Rated current

5 A at T_{amb} 60 °C

Rated voltage

63 V AC

200 V AC (pollution degree 2)
63 V AC (pollution degree 3)

160 V AC

Rated voltage

160 V AC

250 V AC

Series 60

Spring terminal blocks

pitch 5.08 mm (0.200")

Service-friendly: quick and easy connecting and detaching of conductors.

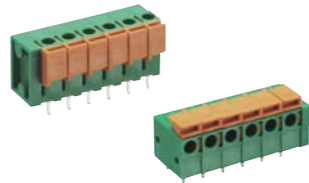
For signal and load currents up to 10 A.

MX...-508

Spring terminal blocks

upright
MX 122-508

angular
MX 222-508



10 A · 300 V AC · poles 2–4, 6 and 8

KRE...

Screw terminal blocks, with lift clamps with protection against missplacing, upright

pitch 5.0 mm (0.197")
KRE with screws M2, 0.4 Nm
KREG with screws M3, 0.5 Nm

pitch 10.0 mm (0.394"), for mains supply, with imprint PE N L1
KREN with screws M2, 0.4 Nm
KRENG with screws M3, 0.5 Nm

15 A · 250 V AC (**KREN, KRENG** 500 V AC) · poles 2–18 (**KREN, KRENG** 3)



632...

Miniature screw terminal blocks, with lift clamps and with test holes

pitch 5.0 mm (0.197")
6320 upright
6322 35° angular
6324 90° angular



16 A · 630 V AC · poles 2–4

Series 61

Screw terminal blocks

pitch 3.5 · 5.0 · 5.08 · 10.0 mm
(0.138" · 0.197" · 0.200" · 0.394")

For all cable-to-board connections relevant to maintainance, stringable without loss of pitch.

For signal and load currents up to 16 A.

KRMC

Micro screw terminal blocks

pitch 3.5 mm (0.138")
KRMC with wire protector



6 A · 250 V AC · poles 2–8

KRES... · KRM

Screw terminal blocks, clamps with wire protector

pitch 5.0 mm (0.197")
upright
KRESS
KRM with dovetail joint

angular
KRESW 45°
KRESL 90°

15 A · 250 V AC · poles 2–16 (**KRESW** 2–12, **KRM** 2–12, 6)



KRES...03/02-...

Screw terminal blocks, clamps with wire protector

pitch 10.0 mm (0.394")
upright
KRESS 03/02-09/05

angular
KRESW 03/02-07/04 45°
KRESL 03/02-07/04 90°

15 A · 630 V AC · poles **KRESS...** 2–5, **KRESW...** 2, 4 and **KRESL...** 2–4,



Series 65

Pluggable screw terminal blocks on socket boards

pitch 5.0 mm (0.197")

Space-saving solution of pluggable screw termination, no mismatching, with locking.

For signal and load currents up to 10 A.

KS...

Pluggable screw terminal blocks, with locking and clamps with wire protectors

KS without sidewalls
KSC with sidewalls



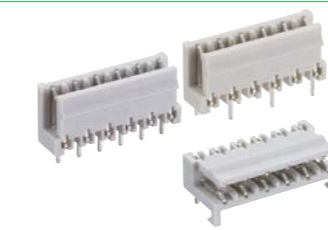
10 A · 250 V AC · poles 2–10

KB...

Socket boards

upright
KB solder pins single row
KBQ solder pins dual row staggered

angular, solder pins single row
KBWO
KBW with retaining hooks



10 A · 250 V AC · poles 2–10

Series 67

Pluggable terminal blocks on pin headers

pitch 5.08 mm (0.200")

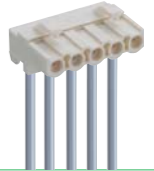
Connectors with screw terminals and insulation displacement termination for automated harnessing, many versions. Compatible mating with many products in the market.

For signal and load currents up to 16 A.

6770

Pluggable terminal block, insulation displacement technology, with locking and test holes

6770 cable departure straight or angular



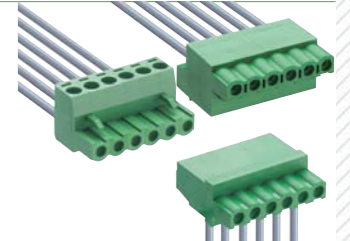
6 A · 250 V AC · poles 2–7

MC...-508

Pluggable screw terminal blocks, with locking, with lift clamp

cable departure angular, 90°
MC 200-508 on side of locking

cable departure straight, 180°
MC 100-508 screw 90° for mating direction
MC 310-508 screw 180° for mating direction, with combined screw



16 A · 300 V AC (**MC 100-508** 400 V AC) · poles 2–8 (**MC 100-508** 2–12)

ME...-508

Pin headers

upright
ME 020-508 without sidewalls
ME 040-508 with sidewalls

angular
ME 010-508 without sidewalls
ME 030-508 with sidewalls



16 A · 300 V AC · poles 2–8 (**ME 030-508** 2–12)

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