



GREEN ELECTRONICS



MMT

Terminal Blocks and Connectors for Printed Circuit Boards



ISO
9001



ISO
14001



BS OHSAS
18001:2007



Sauro[®]
ELECTRONIC CONNECTORS
—by the law—

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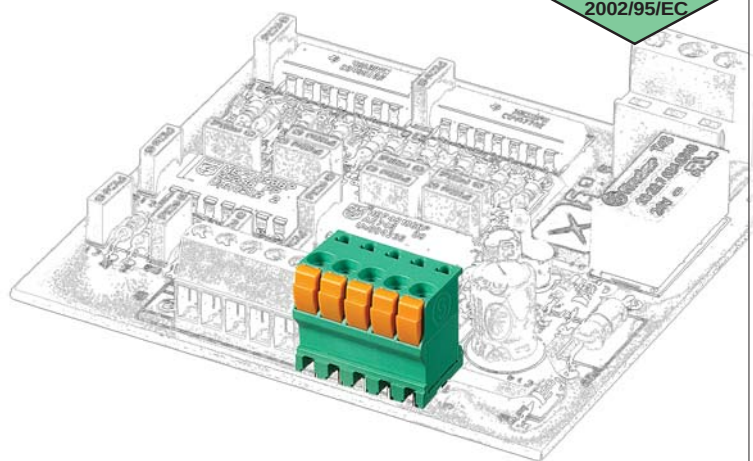
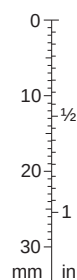
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**MMT****Functional characteristics****Dimensional class:***low***Standard colour:***green***Height:***14.85 mm
(.585 in)***Max approved wire size:**

*solid: 1.5 mm² (IEC EN); 16 AWG
stranded: 1.5 mm² (IEC EN); 16 AWG
wire entry size:
2.4 x 1.95 mm (.094 x .076 in)*

**Versions:***side stackable,***Single mould poles:***from 2 to 16***Pitches:***metric 3.5 mm, 7 mm
(.138 in, .276 in)**imperial 3.81 mm, 7.62 mm
(.150 in, .300 in)***Solderable at a temperature up to***270°C / 518°F*

*pitch 3.5/3.81 mm
side stackable, straight*

Brief description

Although the **MMT** series of terminal blocks is small in size it offers a **high connection capacity**; in fact wires up to **1.5 mm² (16 AWG)** can be used and consequently a certified current range of **10A can be reached**.

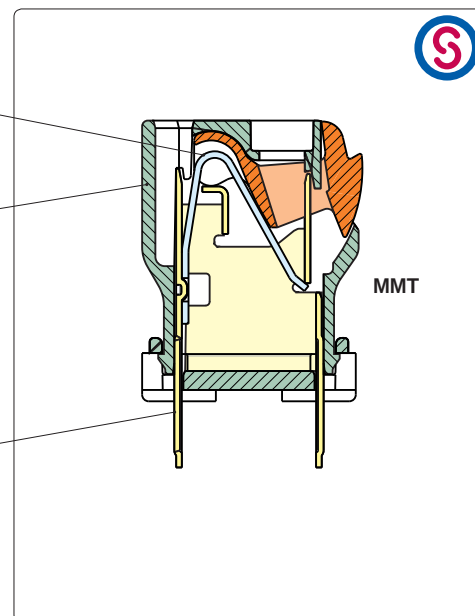
It is available in 3.5 mm (.138 in) and 7 mm (.275 in) metric pitches and in 3.81 mm (.100 in) and 7.62 mm (.300 in) Imperial pitches, in monolithic blocks from 2 to 16 poles, in the side-stackable version, with insertion of the wire perpendicular to the PCB.

The basic monolithic terminal boards can be side-stacked on the PCB in order to obtain any number of poles without losing the pitch; by taking advantage of this particular characteristic a minimum stock of basic terminal blocks can be kept.

It is simple to manage the product, the warehouse and the assembly with the **Kit packages** because several versions can be received with only one code, the part-numbers are significantly reduced and the risk of making mistakes is also reduced.

Characteristics of components

- Steel clamping spring
- Polyamide Housing.
Standard colour: GREEN.
V0 Self-extinguishing according to UL 94.
Chlorinated solvents resistant,
with no phosphor, dioxin or
detrimental to health halogens.
- Lead-free tin-plated copper alloy spring.



Mechanical characteristics

PCB thickness:	max. 2.4 mm (.094 in)
PCB hole diameter:	min. 1.4 mm (.055 in)
Stripping length	9 ÷ 10 mm (.41 ÷ .45 in)
Operating temperature range	-40 °C ÷ +110 °C (-40 °F ÷ +230 °F)
Climatic category	40/110/21 according to EN 60068-1

Electrical characteristics*

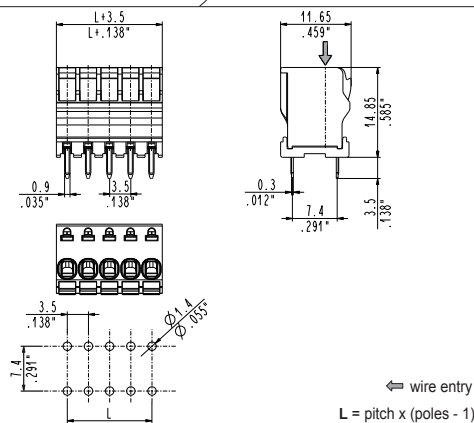
Solid wire section	0.14 ÷ 1.5 mm ² (IEC EN)* 30÷16 AWG *
Stranded wire section	0.14 ÷ 1.5 mm ² (IEC EN)* 30÷16 AWG *
Rated voltage for 3.5 mm (.138 in) and 3.81 mm (.150 in) pitch	300 V *
Rated voltage for 7 mm (.276 in) and 7.62 mm (.300 in) pitch	750 V *
Rated current	10 A (IEC EN)*
Contact resistance	<15 mΩ
Insulation resistance	>10 ⁹ Ω (500V DC)

*All the a.m. data refer to the highest values amongst the certified ones.

V voltage, I current values and tightening torque are related to the norms to be applied to the product and to its use.

Approvals

IEC-EN	IEC:	130 V - T 110 - 10 A - 1.5 mm ² solid and stranded for 3.5 mm and 3.81 mm pitch
	EN 60998	750 V - T 110 - 10 A - 1.5 mm ² solid and stranded for 7 mm and 7.62 mm pitch
UL	UL:	300 V - 10 A - 30÷16 AWG for 3.5 mm, 3.81 mm, 7 mm and 7.62 mm pitch
	E167473	Application values for end-use equipment have to be in accordance to UL norms and applicable to them.
VDE	VDE:	130 V - 10 A - T 110 - 1.5 mm ² for 3.5 mm and 3.81 mm pitch
	pending	450 V - 10 A - T 110 - 1.5 mm ² for 7 mm and 7.62 mm pitch
IMQ	IMQ:	130 V - T 110 - 10 A - 1.5 mm ² solid and stranded for 3.5 mm and 3.81 mm pitch
	pending	750 V - T 110 - 10 A - 1.5 mm ² solid and stranded for 7 mm and 7.62 mm pitch

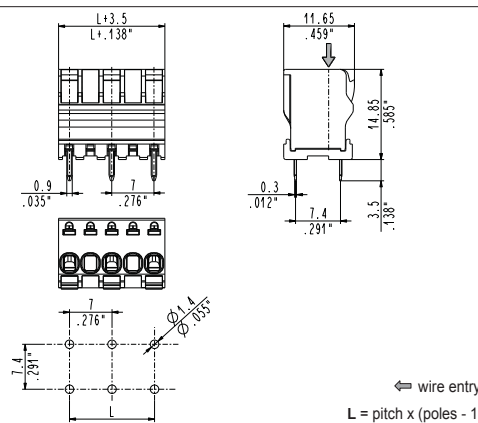


← wire entry
L = pitch x (poles - 1)

MMT_008 straight, side stackable

3.5 mm / .138" pitch

Poles	Code	Pcs/pack.	W [kg]*	Pcs/Ind.**	W [kg]*
02	MMT02008	800	1,18	3200	4,74
03	MMT03008	500	1,11	2000	4,44
04	MMT04008	400	1,18	1600	4,74
05	MMT05008	325	1,20	1300	4,81
06	MMT06008	275	1,22	1100	4,88
07	MMT07008	225	1,17	900	4,66
08	MMT08008	200	1,18	800	4,74
09	MMT09008	175	1,17	700	4,66
10	MMT10008	150	1,11	600	4,44
11	MMT11008	150	1,22	600	4,88
12	MMT12008	125	1,11	500	4,44
13	MMT13008	125	1,20	500	4,81
14	MMT14008	100	1,04	400	4,14
15	MMT15008	100	1,11	400	4,44
16	MMT16008	100	1,18	400	4,74
17	MMT17008	100	1,26	400	5,03
18	MMT18008	75	1,00	300	4,00
19	MMT19008	75	1,05	300	4,22
20	MMT20008	75	1,11	300	4,44
21	MMT21008	75	1,17	300	4,66
22	MMT22008	50	0,81	200	3,26
23	MMT23008	50	0,85	200	3,40
24	MMT24008	50	0,89	200	3,55
25	MMT25008	50	0,92	200	3,70

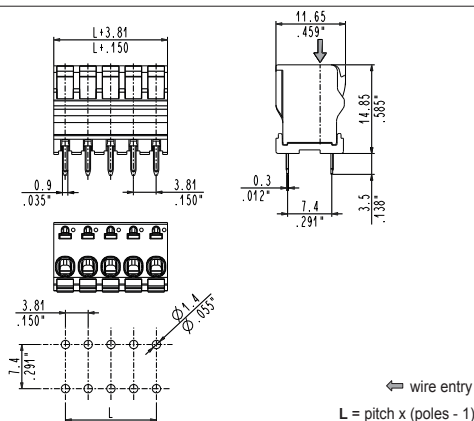


← wire entry
L = pitch x (poles - 1)

MMT_009 straight, side stackable

7 mm / .276" pitch

Poles	Code	Pcs/pack.	W [kg]*	Pcs/Ind.**	W [kg]*
02	MMT02009	500	1,02	2000	4,08
03	MMT03009	325	0,99	1300	3,98
04	MMT04009	225	0,92	900	3,67
05	MMT05009	175	0,89	700	3,57
06	MMT06009	150	0,92	600	3,67
07	MMT07009	125	0,89	500	3,57
08	MMT08009	100	0,82	400	3,26
09	MMT09009	100	0,92	400	3,67
10	MMT10009	75	0,77	300	3,06
11	MMT11009	75	0,84	300	3,37
12	MMT12009	50	0,61	200	2,45
13	MMT13009	50	0,66	200	2,65

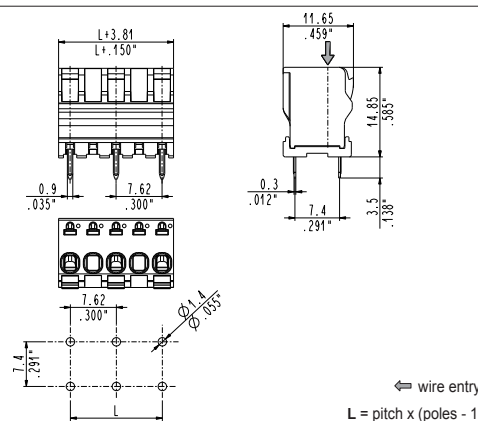


← wire entry
L = pitch x (poles - 1)

MMT_00T straight, side stackable

3.81 mm / .150" pitch

Poles	Code	Pcs/pack.	W [kg]*	Pcs/Ind.**	W [kg]*
02	MMT0200T	800	1,28	3200	5,12
03	MMT0300T	500	1,20	2000	4,80
04	MMT0400T	400	1,28	1600	5,12
05	MMT0500T	325	1,30	1300	5,20
06	MMT0600T	275	1,32	1100	5,28
07	MMT0700T	225	1,26	900	5,04
08	MMT0800T	200	1,28	800	5,12
09	MMT0900T	175	1,26	700	5,04
10	MMT1000T	150	1,20	600	4,80
11	MMT1100T	150	1,32	600	5,28
12	MMT1200T	125	1,20	500	4,80
13	MMT1300T	125	1,30	500	5,20
14	MMT1400T	100	1,12	400	4,48
15	MMT1500T	100	1,20	400	4,80
16	MMT1600T	100	1,28	400	5,12
17	MMT1700T	100	1,36	400	5,44
18	MMT1800T	75	1,08	300	4,32
19	MMT1900T	75	1,14	300	4,56
20	MMT2000T	75	1,20	300	4,80
21	MMT2100T	75	1,26	300	5,04
22	MMT2200T	50	0,88	200	3,52
23	MMT2300T	50	0,92	200	3,68
24	MMT2400T	50	0,96	200	3,84
25	MMT2500T	50	1,00	200	4,00



← wire entry
L = pitch x (poles - 1)

MMT_007 straight, side stackable

7.62 mm / .300" pitch

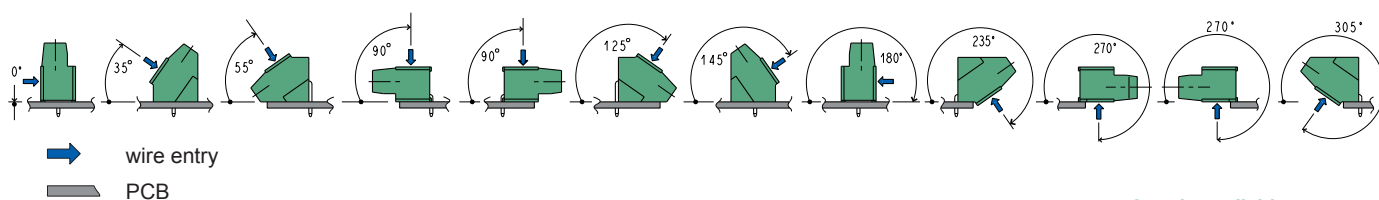
Poles	Code	Pcs/pack.	W [kg]*	Pcs/Ind.**	W [kg]*
02	MMT02007	500	1,11	2000	4,44
03	MMT03007	325	1,08	1300	4,33
04	MMT04007	225	1,00	900	4,00
05	MMT05007	175	0,97	700	3,89
06	MMT06007	150	1,00	600	4,00
07	MMT07007	125	0,97	500	3,89
08	MMT08007	100	0,89	400	3,55
09	MMT09007	100	1,00	400	4,00
10	MMT10007	75	0,83	300	3,33
11	MMT11007	75	0,92	300	3,66
12	MMT12007	50	0,67	200	2,66
13	MMT13007	50	0,72	200	2,87

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according to the law

Round angle of terminal blocks

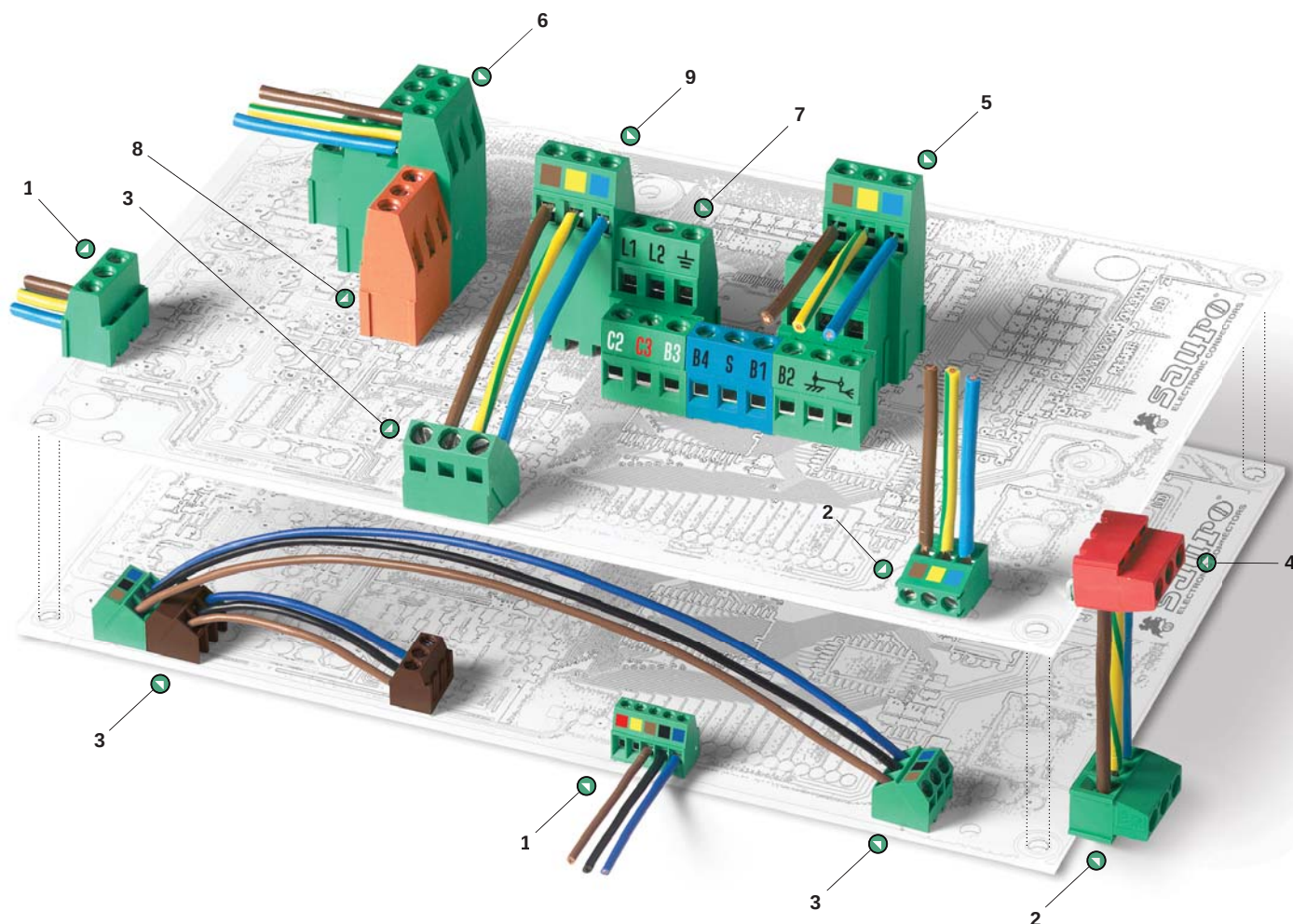


Any type of angle available on request

Example of application

- 1 Straight version terminal blocks available: MSD MTB MTS MSB MSG MSM MSS MSQ MSP
- 2 90° version terminal blocks available: MTS MSB MSG MSM MSS MSP
- 3 45°/55° version terminal blocks available: MTB MSB MSM MSP
- 4 270° version terminal blocks available: MSG MSM
- 5 3 level Plurima: PSB PSM PSQ
- 6 2nd and 3rd level Plurima: PSB PSM PSQ
- 7 1st and 2nd level Plurima: PSB PSM PSQ
- 8 2nd level Plurima: PSB PSM PSQ
- 9 3rd level Plurima: PSB PSM PSQ

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Examples of application: all the available codes are listed in the table on pages from 8 to 11

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