

4941J**

6.3 (.250) TYPE SERIES · RECEPTACLES

SELF-LOCKING RECEPTACLES. LOW INSERTION TERMINALS.



Specification Self-locking terminals under TP design

Typology Extra low insertion

For male (mm) 6,3x0,8

Wire size mm² (AWG) 2,5-5 (14-10)

Ø Insulation (mm) 3,6-5

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (°C)	Contact Resist (mΩ)
4941J00	Brass	Natural	110	1.00
4941J01	Brass	Pre-tin-plated	120	0.75
4941J02	Brass	Tin plated	120	0.75
4941J24	Steel	Nickel-plated	300	2.50

Material thickness (mm) 0,4

Max. rated current

Wire section	4941J00 / 01 / 02 / 24
1.00 + 2.50 mm²	12A
1.50 + 1.50 mm²	16A
1.50 + 2.50 mm²	16A
2.50 mm²	20A
2.50 + 2.50 mm²	20A

Compatible connectors 26418**, RS5412**-K, RS5413**-K, RS5414**-K, RS5415**-K, 26417**, RS5416**-K

Insertion / Withdrawal forces

	4941J00 / 01 / 02 / 24
1st Insertion (max)	20N ¹
1st Withdrawal (min, locking enabled)	90N ¹
1st Withdrawal (max)	25N ¹

¹ Valid for Natural Brass Tab

Security function

Self-locking function prevents disconnection by pulling the cable.
 Disconnection is possible disabling the locking function, pressing the lever manually or sliding the connector (see withdrawal forces).
 It allows several connections-disconnections maintaining the functional features.

Application tool MN4941

Wire strip length 5.5 (±0.5) mm

Crimping parameters & pull out force

Wire section (±10%)	Conductor 		Insulator	Pull-out force (N)
	Height (mm)	Width (mm)	Width (mm)	
1.00 + 2.50 mm²	2.15 (±0.05)	3.66 (±0.05)	5.50 (±0.10)	(108N @ 60s) + (230N @ 60s)
1.50 + 1.50 mm²	2.05 (±0.05)	3.66 (±0.05)	5.50 (±0.10)	(150N @ 60s) + (150N @ 60s)
1.50 + 2.50 mm²	2.30 (±0.05)	3.67 (±0.05)	5.50 (±0.10)	(150N @ 60s) + (230N @ 60s)
2.50 mm²	1.95 (±0.05)	3.68 (±0.05)	5.50 (±0.10)	230N @ 60s
2.50 + 2.50 mm²	2.50 (±0.05)	3.70 (±0.05)	5.70 (±0.10)	(230N @ 60s) + (230N @ 60s)

Values only valid for the application tool specified upwards. The insulator widths are only indicative as they are dependent on the sheath thickness of the wire used.

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Winding number 6000

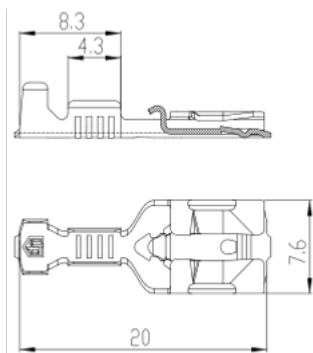
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4941J00	UL	UL 310	E211727	AWG 14-14+16 (41-41+26 Stranded Cu) / MN4941
4941J01	UL	UL 310	E211727	AWG 14-14+16 (41-41+26 Stranded Cu) / MN4941
4941J02	UL	UL 310	E211727	AWG 14-14+16 (41-41+26 Stranded Cu) / MN4941
4941J24	UL	UL 310	E211727	AWG 14-14+16 (41-41+26 Stranded Cu) / MN4941

Approvals



Drawing



4941J00 NATURAL BRASS

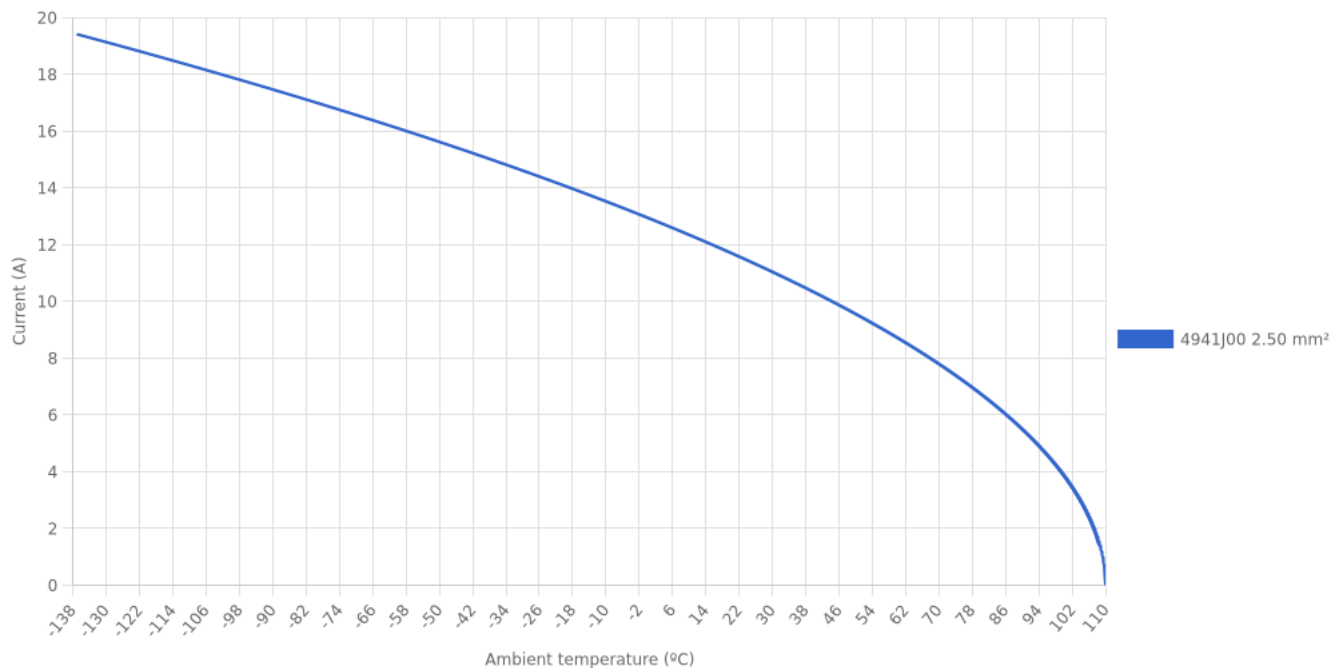
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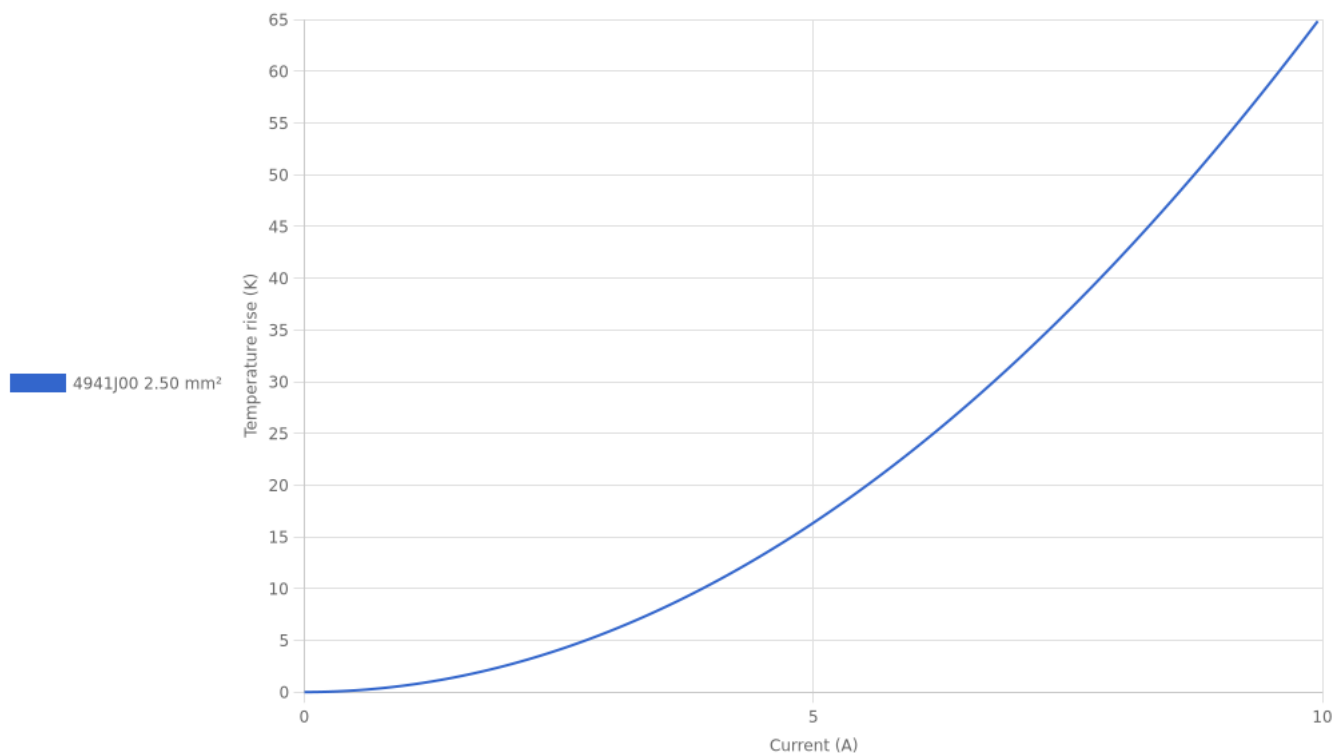
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



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4941J02 TIN PLATED BRASS

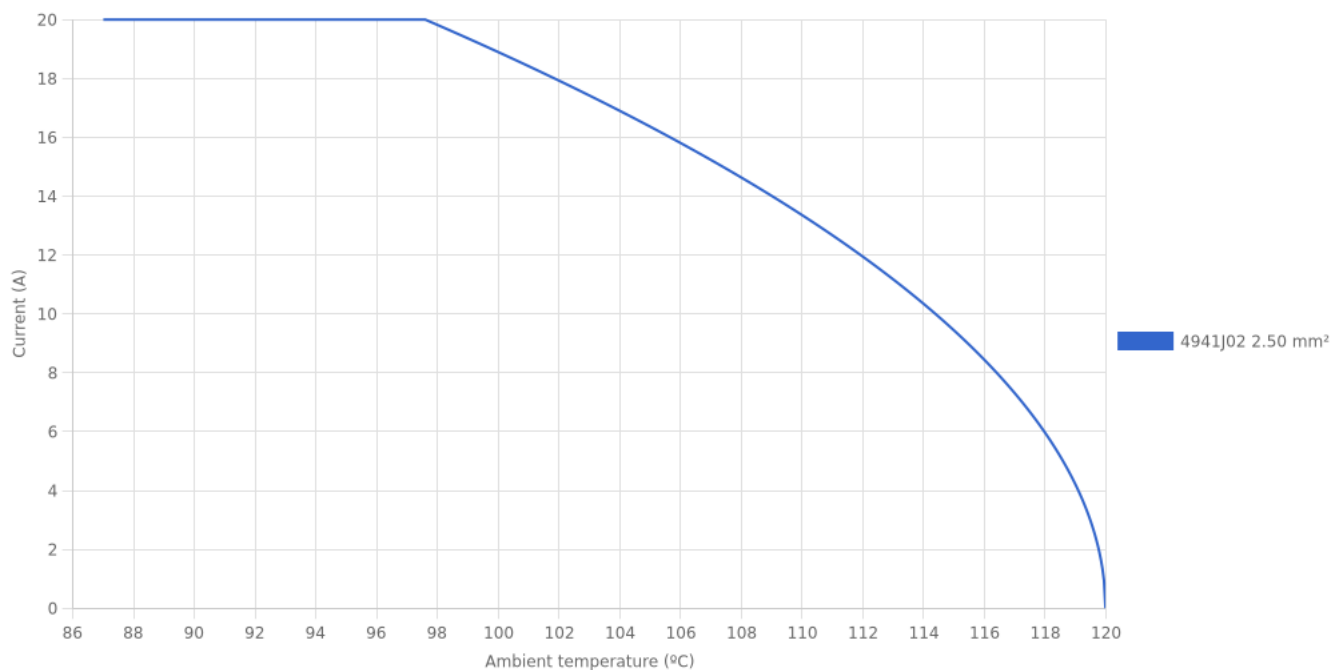
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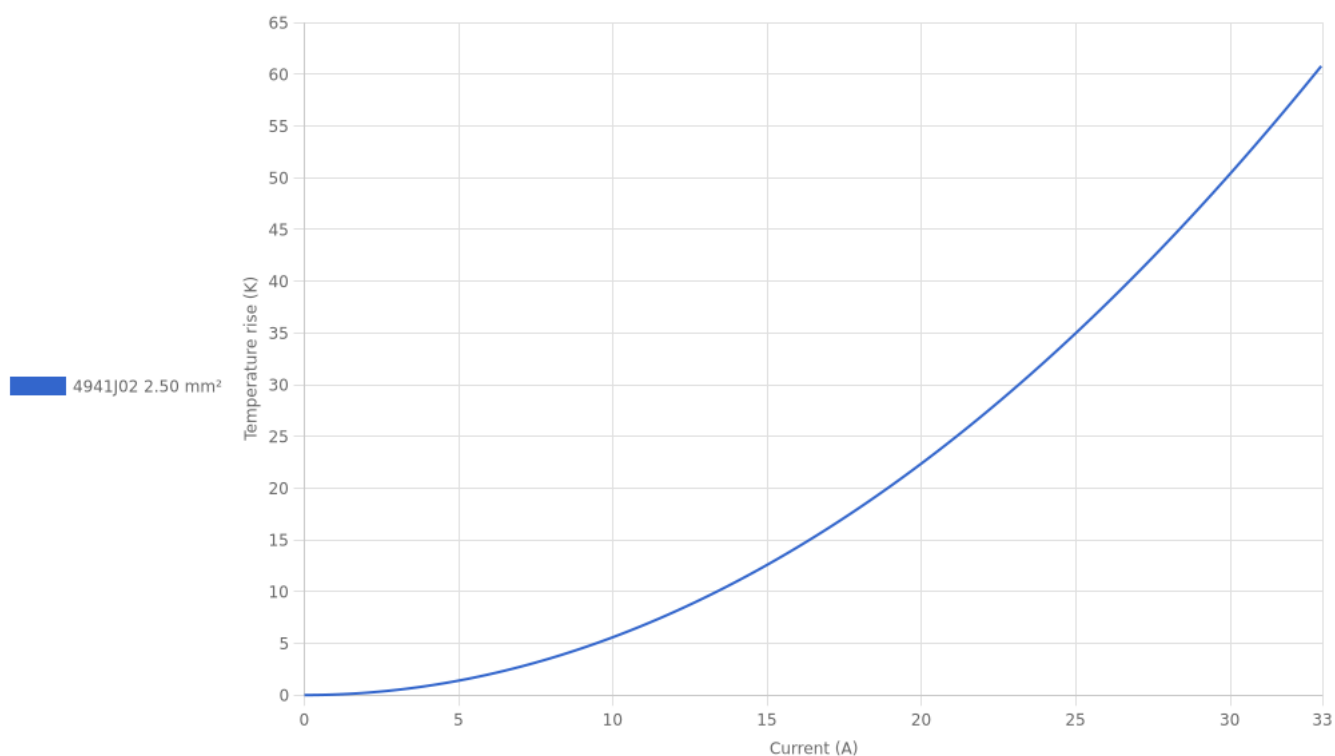
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

Terminal temperature rise due to the current carried



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4941J24 NICKEL-PLATED STEEL

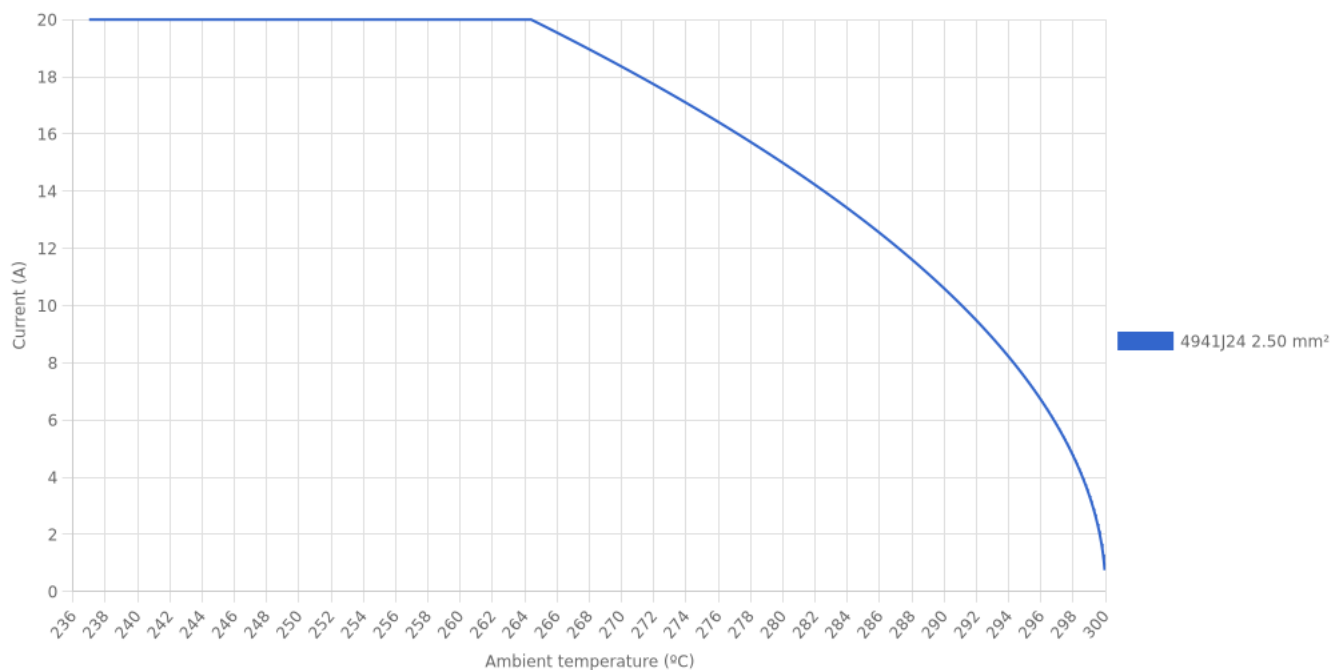
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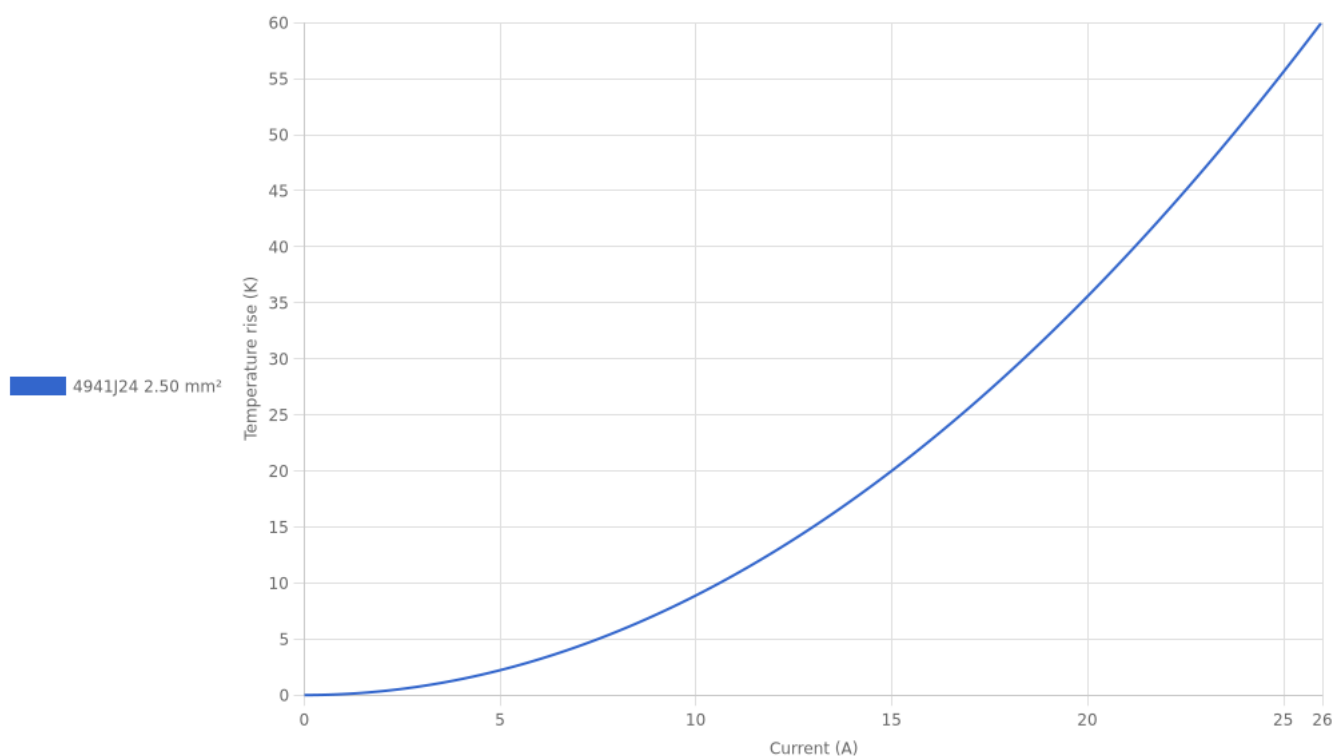
Derating curve

Current carrying capacity vs. Ambient temperature



Temperature rise curve

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Rev. Nr.	Concept	Date	Created/Revised	Approved
A6	Update compatible connector 26417**	2026-03-26	E. Roura (laboratory dept.)	O. Roura (engineering dept.)
A5	Update contact resistance	2026-02-06	E. Roura (laboratory dept.)	E. Turon (engineering dept.)
A4	update datasheet	2025-10-01	D. Yabar (Engineering Dept.)	E. Roura (Laboratory Dept.)
A3	Update 1st Withdrawal value to 25N	2025-06-13	D. Yabar (Engineering Dept.)	E. Turon (Engineering Dept.)
A2	Update 'Approved regulations'	2025-04-29	E. Roura (laboratory dept.)	E. Turon (engineering dept.)
A1	Datasheet generated automatically [A1]	2025-02-25	D. Yabar (Engineering Dept.)	Engineering Dept.