

4416.** 4.8 (.187) TYPE SERIES · RECEPTACLES



Specification Standard Terminals

For male (mm) 4,8x0,5

Din 46247

Wire size mm² (AWG) 1-2,5 (18-14)

Ø Insulation (mm) 3-4,3

Materials, temperature and contact resistance

Part nr.	Material	Finishing	Max. Temp. (°C)	Contact Resist (mΩ)
4416.00	Brass	Natural	110	0.75
4416.02	Brass	Tin plated	120	(T.B.D.)
4416.04	Brass	Nickel-plated	130	(T.B.D.)
4416.24	Steel	Nickel-plated	300	2.00
4416.30	Bronze	Natural	120	(T.B.D.)
4416.32	Bronze	Tin plated	130	(T.B.D.)

Material thickness (mm) 0,35

Max. rated current

Wire section	4416.00 / 02 / 04 / 24 / 30 / 32
1.00 mm ²	12A
1.50 mm ²	16A
2.50 mm ²	20A

Insertion / Withdrawal forces


	4416.00 / 04 / 24 / 30	4416.02 / 32
1st Insertion (max)	50N ¹	60N ¹
1st Withdrawal (max)	50N ¹	60N ¹
10th Withdrawal (min)	10N ¹	15N ¹

¹ Valid for Natural Brass Tab

Application tool MN4416

Wire strip length 4.2 (±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 mm ²	1.40 (±0.05)	3.03 (±0.05)	4.12 (±0.10)	108N @ 60s
1.50 mm ²	1.50 (±0.05)	3.05 (±0.05)	4.14 (±0.10)	150N @ 60s
2.00 mm ²	1.65 (±0.05)	3.06 (±0.05)	4.14 (±0.10)	150N @ 60s
2.50 mm ²	1.80 (±0.05)	3.08 (±0.05)	4.16 (±0.10)	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.

Winding number 10000

Compatible connectors 24812**

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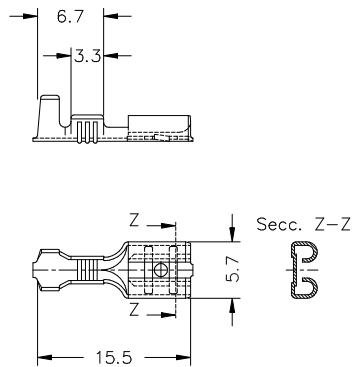
Approved regulations

Part nr.	Approval	Standard	File	Certified framework
4416.00	UL	UL 310	E211727	AWG 18-14 (16-41 Stranded Cu) / MN4416
4416.02	UL	UL 310	E211727	AWG 18-14 (16-41 Stranded Cu) / MN4416
4416.24	UL	UL 310	E211727	AWG 18-18 (16-16 Stranded Cu) / MN4416

Approvals



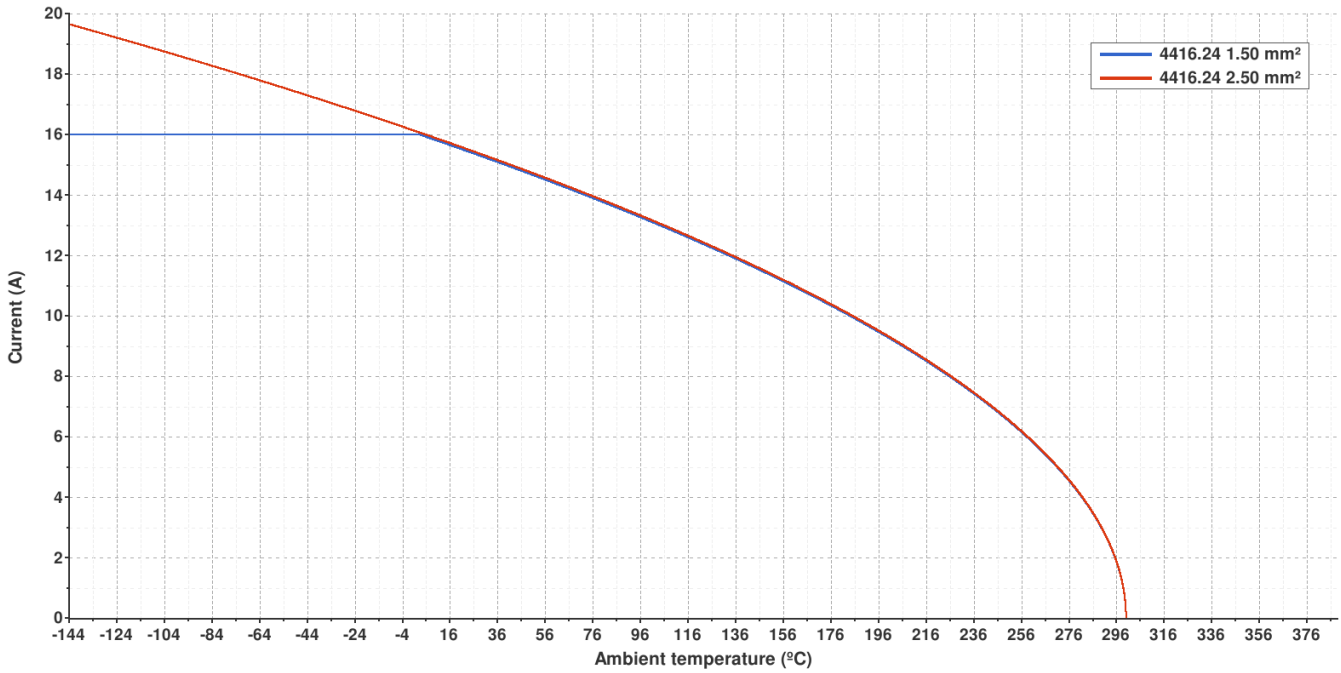
Drawing



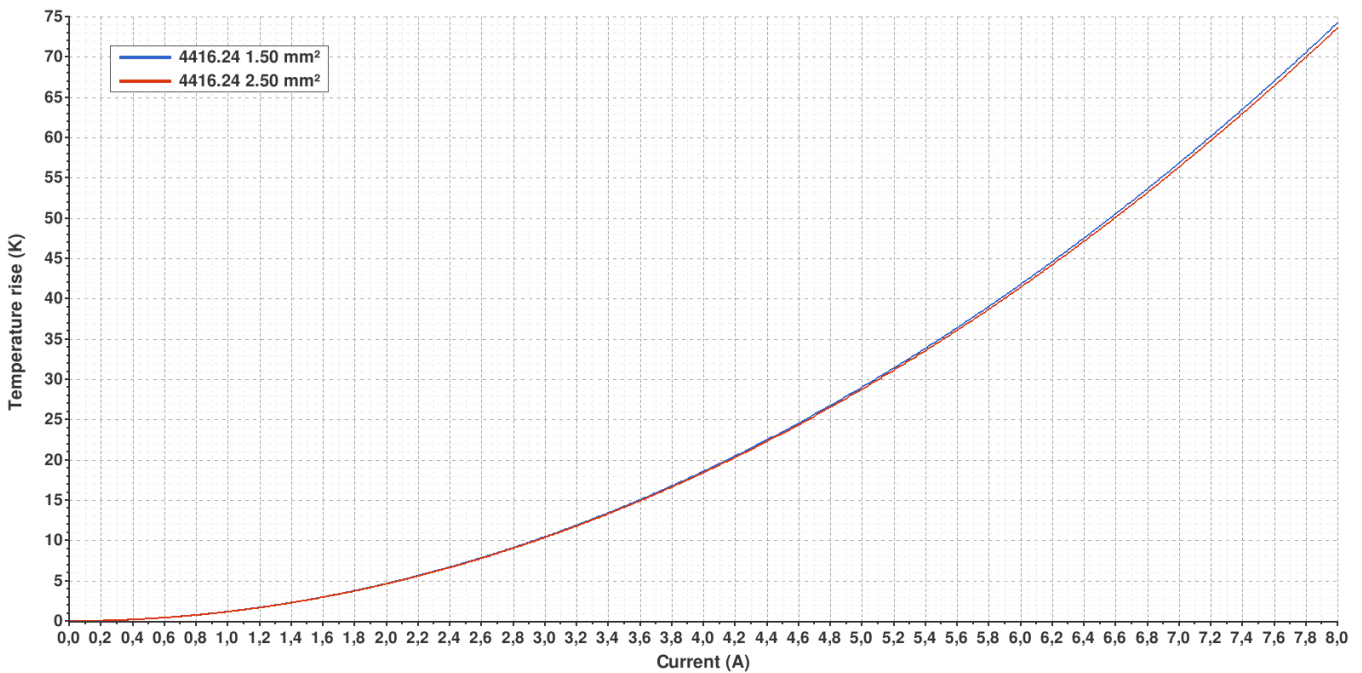
4416.24 NICKEL-PLATED STEEL
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Derating curve Current carrying capacity vs. Ambient temperature



Temperature rise curve Terminal temperature rise due to the current carried



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(T.B.D.): To be determined

Disclaimer

Data obtained from Escubedo Laboratory essays, using own methodology, cabling, equipment and original crimping tools, done in laboratory conditions and following the indicated standards, errors and omissions excepted. This document has no contractual meaning and it is publicised only for informative purposes. It can be changed without prior notice. The end customer has the sole responsibility to check these characteristics in its environment and with its own components, manufacturing methods and equipment. See also the full range product overview if available. For further information please visit our web site or contact us

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A2	Change company name and logo	2021-10-21	Laboratory Dept.	E. Roura
A1	Datasheet generated automatically [A1]	2019-02-15	Laboratory Dept.	E. Roura

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