

x | mate M15 Power

Motor Connector





x | mate

- **Very compact connector**
- **Quick-lock system**
- **Tamper-proof overmold evolutions**
- **Panel parts with M20 thread - can be integrated in existing terminal boxes**

Inhalt		Page
Connection cable male-female		5
Male connector with cable		6
Female connector with cable		7
Receptacle		8
Technical Characteristics		4
Derating Curves		9
Summary of Part Numbers		11

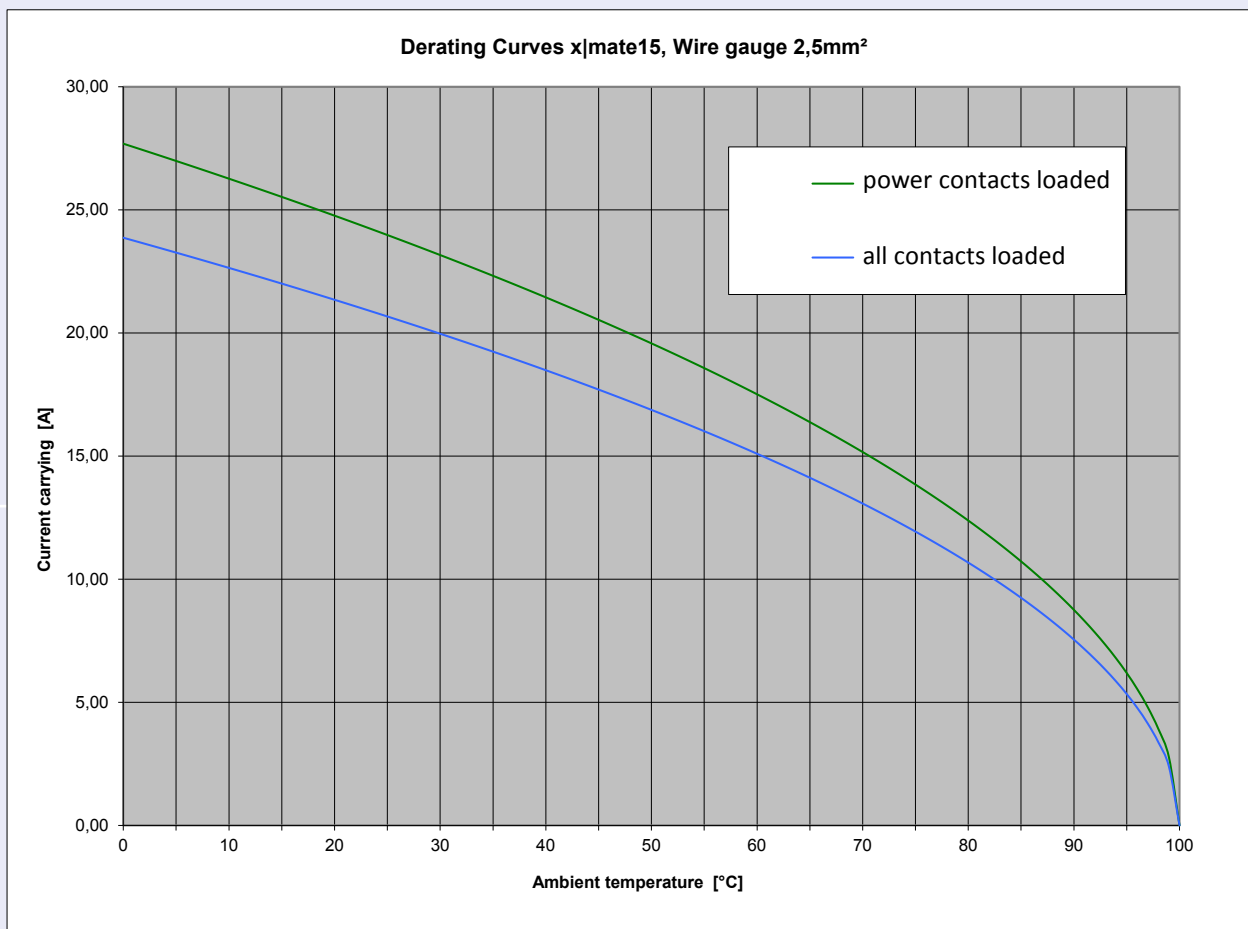
General Characteristics	Standard	Characteristics	
Number of contacts		3+PE	3+2+PE
View on termination side of male contact insert			
		1.5 - 2.5 mm ²	
Contact arrangement			
Electrical Characteristics			
Rated voltage	DIN EN 60664-1	630 V / 63V	
Rated voltage	VDE 01 10-1	630 V / 63V	
Rated impulse withstand voltage	DIN EN 60664-1	6000 V	
Pollution degree	DIN EN 60664-1	connected: 3	
Installation category	DIN EN 60664-1	III	
Insulation group	DIN EN 60664-1	2	
Current rating at 40°C	DIN EN 60512-5-2, Test 5b UL 1977	16A / 10A	
Insulation resistance			
Contact resistance			
Climatic Characteristics			
Climatic category			
Temperature range	IEC 60068-1	- 20 °C / + 60 °C	
Mechanical Characteristics			
IP-degree	IEC 60529	IP 67	
Insertion and withdrawal forces			
Mechanical operation	DIN EN 60512, Test 9a	>500 mating cycles	
Materials			
Housing material		PA	
Dielectric material		PA	
Contact plating		silver plated	
Further Characteristics			
Termination technique			
Wire gauge			
Flammability		UL 94 V0	
Locking system			

No of cont.	Part number	Wire lenght	Wire gauge	Drawing	Figures
Connection cable male-female					
3+2+PE	CA115 10 0 100 001	1 m	2,5 mm ²		
3+2+PE	CA115 10 0 100 002	2 m	2,5 mm ²		
3+2+PE	CA115 10 0 100 003	3 m	2,5 mm ²		
3+2+PE	CA115 10 0 100 005	5 m	2,5 mm ²		
3+2+PE	CA115 10 0 100 010	10 m	2,5 mm ²		
3+PE	CA115 10 1 100 001	1 m	2,5 mm ²		
3+PE	CA115 10 1 100 002	2 m	2,5 mm ²		
3+PE	CA115 10 1 100 003	3 m	2,5 mm ²		
3+PE	CA115 10 1 100 005	5 m	2,5 mm ²		
3+PE	CA115 10 1 100 010	10 m	2,5 mm ²		
3+2+PE	CA115 10 2 100 001	1 m	1,5 mm ²		
3+2+PE	CA115 10 2 100 002	2 m	1,5 mm ²		
3+2+PE	CA115 10 2 100 003	3 m	1,5 mm ²		
3+2+PE	CA115 10 2 100 005	5 m	1,5 mm ²		
3+2+PE	CA115 10 2 100 010	10 m	1,5 mm ²		
3+PE	CA115 10 3 100 001	1 m	1,5 mm ²		
3+PE	CA115 10 3 100 002	2 m	1,5 mm ²		
3+PE	CA115 10 3 100 003	3 m	1,5 mm ²		
3+PE	CA115 10 3 100 005	5 m	1,5 mm ²		
3+PE	CA115 10 3 100 010	10 m	1,5 mm ²		

No of cont.	Part number	Wire lenght	Wire gauge	Drawing	Figures
Male connector with cable					
3+2+PE	CA115 11 0 100 001	1 m	2,5 mm ²		
3+2+PE	CA115 11 0 100 002	2 m	2,5 mm ²		
3+2+PE	CA115 11 0 100 003	3 m	2,5 mm ²		
3+2+PE	CA115 11 0 100 005	5 m	2,5 mm ²		
3+2+PE	CA115 11 0 100 010	10 m	2,5 mm ²		
3+PE	CA115 11 1 100 001	1 m	2,5 mm ²		
3+PE	CA115 11 1 100 002	2 m	2,5 mm ²		
3+PE	CA115 11 1 100 003	3 m	2,5 mm ²		
3+PE	CA115 11 1 100 005	5 m	2,5 mm ²		
3+PE	CA115 11 1 100 010	10 m	2,5 mm ²		
3+2+PE	CA115 11 2 100 001	1 m	1,5 mm ²		
3+2+PE	CA115 11 2 100 002	2 m	1,5 mm ²		
3+2+PE	CA115 11 2 100 003	3 m	1,5 mm ²		
3+2+PE	CA115 11 2 100 005	5 m	1,5 mm ²		
3+2+PE	CA115 11 2 100 010	10 m	1,5 mm ²		
3+PE	CA115 11 3 100 001	1 m	1,5 mm ²		
3+PE	CA115 11 3 100 002	2 m	1,5 mm ²		
3+PE	CA115 11 3 100 003	3 m	1,5 mm ²		
3+PE	CA115 11 3 100 005	5 m	1,5 mm ²		
3+PE	CA115 11 3 100 010	10 m	1,5 mm ²		

No of contacts	Part number	Wire length	Wire gauge	Drawing	Figures
Female connector with cable					
3+2+PE	CA115 12 0 100 001	1 m	2,5 mm ²		
3+2+PE	CA115 12 0 100 002	2 m	2,5 mm ²		
3+2+PE	CA115 12 0 100 003	3 m	2,5 mm ²		
3+2+PE	CA115 12 0 100 005	5 m	2,5 mm ²		
3+2+PE	CA115 12 0 100 010	10 m	2,5 mm ²		
3+PE	CA115 12 1 100 001	1 m	2,5 mm ²		
3+PE	CA115 12 1 100 002	2 m	2,5 mm ²		
3+PE	CA115 12 1 100 003	3 m	2,5 mm ²		
3+PE	CA115 12 1 100 005	5 m	2,5 mm ²		
3+PE	CA115 12 1 100 010	10 m	2,5 mm ²		
3+2+PE	CA115 12 2 100 001	1 m	1,5 mm ²		
3+2+PE	CA115 12 2 100 002	2 m	1,5 mm ²		
3+2+PE	CA115 12 2 100 003	3 m	1,5 mm ²		
3+2+PE	CA115 12 2 100 005	5 m	1,5 mm ²		
3+2+PE	CA115 12 2 100 010	10 m	1,5 mm ²		
3+PE	CA115 12 3 100 001	1 m	1,5 mm ²		
3+PE	CA115 12 3 100 002	2 m	1,5 mm ²		
3+PE	CA115 12 3 100 003	3 m	1,5 mm ²		
3+PE	CA115 12 3 100 005	5 m	1,5 mm ²		
3+PE	CA115 12 3 100 010	10 m	1,5 mm ²		

No of contacts	Part number	Wire length	Wire gauge	Drawing	Figures
Male receptacle					
3+2+PE	C115 E02 041 G1	Without cable			
Female receptacle					
3+2+PE	C115 E05 041 G1	without cable			
Male receptacle assembled					
3+2+PE	CA115 61 0100 625	0,25 m	2,5 mm ²		
3+PE	CA115 61 1100 625	0,25 m	2,5 mm ²		
3+2+PE	CA115 61 2100 625	0,25 m	1,5 mm ²		
3+PE	CA115 61 3100 625	0,25 m	1,5 mm ²		
Female receptacle assembled					
3+2+PE	CA115 62 0100 625	0,25 m	2,5 mm ²		
3+PE	CA115 62 1100 625	0,25 m	2,5 mm ²		
3+2+PE	CA115 62 2100 625	0,25 m	1,5 mm ²		
3+PE	CA115 62 3100 625	0,25 m	1,5 mm ²		
Turned crimp contacts					
Supplied as	for wire gauge	AWG	Pieces	Male contact	Female contact
silver plating	0.14 - 0.37 mm ²	26 - 22	100	VN01 016 0024 1C	VN02 016 0024 1C
	0.5 mm ²	20	100	VN01 016 0025 1C	VN02 016 0025 1C
	0.75 - 1.0 mm ²	20 - 16	100	VN01 016 0026 1C	VN02 016 0026 1C
	1.5 mm ²	16 - 15	100	VN01 016 0027 1C	VN02 016 0027 1C
	2.5 mm ²	14	100	VN01 016 0028 1C	VN02 016 0028 1C
gold plating	0.14 - 0.37 mm ²	26 - 22	100	VN01 016 0024 2C	VN02 016 0024 2C
	0.5 mm ²	20	100	VN01 016 0025 2C	VN02 016 0025 2C
	0.75 - 1.0 mm ²	20 - 16	100	VN01 016 0026 2C	VN02 016 0026 2C
	1.5 mm ²	16 - 15	100	VN01 016 0027 2C	VN02 016 0027 2C
	2.5 mm ²	14	100	VN01 016 0028 2C	VN02 016 0028 2C



Part number	page	Part number	page
C115 E02 041 G1	8	CA115 61 0100 625	8
C115 E05 041 G1	8	CA115 61 1100 625	8
CA115 10 0 100 001	5	CA115 61 2100 625	8
CA115 10 0 100 002	5	CA115 61 3100 625	8
CA115 10 0 100 003	5	CA115 62 0100 625	8
CA115 10 0 100 005	5	CA115 62 1100 625	8
CA115 10 0 100 010	5	CA115 62 2100 625	8
CA115 10 1 100 001	5	CA115 62 3100 625	8
CA115 10 1 100 002	5	VN01 016 0024 1C	8
CA115 10 1 100 003	5	VN01 016 0025 1C	8
CA115 10 1 100 005	5	VN01 016 0026 1C	8
CA115 10 1 100 010	5	VN01 016 0027 1C	8
CA115 10 2 100 001	5	VN01 016 0028 1C	8
CA115 10 2 100 002	5	VN01 016 0024 2C	8
CA115 10 2 100 003	5	VN01 016 0025 2C	8
CA115 10 2 100 005	5	VN01 016 0026 2C	8
CA115 10 2 100 010	5	VN01 016 0027 2C	8
CA115 10 3 100 001	5	VN01 016 0028 2C	8
CA115 10 3 100 002	5	VN02 016 0024 1C	8
CA115 10 3 100 003	5	VN02 016 0025 1C	8
CA115 10 3 100 005	5	VN02 016 0026 1C	8
CA115 10 3 100 010	5	VN02 016 0027 1C	8
CA115 11 0 100 001	6	VN02 016 0024 2C	8
CA115 11 0 100 002	6	VN02 016 0025 2C	8
CA115 11 0 100 003	6	VN02 016 0026 2C	8
CA115 11 0 100 005	6	VN02 016 0027 2C	8
CA115 11 0 100 010	6	VN02 016 0028 2C	8
CA115 11 1 100 001	6		
CA115 11 1 100 002	6		
CA115 11 1 100 003	6		
CA115 11 1 100 005	6		
CA115 11 1 100 010	6		
CA115 11 2 100 001	6		
CA115 11 2 100 002	6		
CA115 11 2 100 003	6		
CA115 11 2 100 005	6		
CA115 11 2 100 010	6		
CA115 11 3 100 001	6		
CA115 11 3 100 002	6		
CA115 11 3 100 003	6		
CA115 11 3 100 005	6		
CA115 11 3 100 010	6		
CA115 12 0 100 001	7		
CA115 12 0 100 002	7		
CA115 12 0 100 003	7		
CA115 12 0 100 005	7		
CA115 12 0 100 010	7		
CA115 12 1 100 001	7		
CA115 12 1 100 002	7		
CA115 12 1 100 003	7		
CA115 12 1 100 005	7		
CA115 12 1 100 010	7		
CA115 12 2 100 001	7		
CA115 12 2 100 002	7		
CA115 12 2 100 003	7		
CA115 12 2 100 005	7		
CA115 12 2 100 010	7		
CA115 12 3 100 001	7		
CA115 12 3 100 002	7		
CA115 12 3 100 003	7		
CA115 12 3 100 005	7		
CA115 12 3 100 010	7		

International

Argentina

Amphenol Argentina
Av. Callao 930
2nd Floor Office B "Plaza"
C1023 AAP Buenos Aires
Phone +54 11 4815 68 86
www.amphenol.com.ar

Australia

Amphenol Australia Pty. Ltd.
2 Fiveways Blvd
Keysborough
Victoria 31 73
Phone +61 3 8796 88 88
www.amphenol.com.au

Brazil

Amphenol do Brasil Ltda.
Rua Diogo Moreira 132, 20th Floor
CEP 05423-101 Sao Paulo SP
Phone +55 11 3815 10 03
www.amphenol.com.br

China

Amphenol-Tuchel Electronics
China Branch
20 Tianshan Road
Changzhou 213022
Phone +86 519 85 11 03 01
www.amphenol.info

France

Amphenol Socapex S.A.S.
948, Promenade de l'Arve, BP 29
Theyez Cedex, 74311
Phone +33 4 5089 28 00
www.amphenol-socapex.com

Germany

Amphenol-Tuchel Electronics GmbH
August-Haeusser-Str. 10
74080 Heilbronn
Phone +49 7131 929 0
www.amphenol.de

India

Amphenol Interconnect India Pvt Ltd
105, Bhosari Industrial Area
Pune - 411 026
Phone +91 20 2712 04 81
www.amphenol-in.com

Italy

Amphenol-Tuchel Italy
Via Barbaiana n. 5
20020 Lainate (MI)
Phone +39 02 9325 41
www.amphenol.info

Korea

Amphenol DaeShin Elect and
Precision Co.,Ltd
558 Songnae-Dong, Sosa-Gu
Bucheon-City, Kyunggi-Do
Korea 422-130
Phone +82 32 6103 800
www.amphenol.co.kr

Mexico

Amphenol Mexico
Prolongacion Reforma 61 - 6 B2
Col. Paseo de las Lomas
C.P. 01330 Mexico D.F.
Phone +52 55 5258 99 84
www.amphenolmexico.com

Singapore

Asia Pacific Sales Operations
72 Bendemeer Rd, No.03-32/33
Hiap Huat House, Luzerne, 339941
Singapore
Phone +65 6294 2128
www.amphenol.com

South Africa

Amphenol International Ltd
Chislehurst
30 Impala Road
2196 Chislehurst
Sandton, 2146
Phone +27 11 7839 517
www.amphenol.co.za

Spain

Amphenol Espana
Edificio Burgosol, Oficina 55
C/Comunidad de Madrid, 35 bis
Las Rozas (Madrid), 28230
Phone +34 91 6407 302
www.amphenol.com

Taiwan

Amphenol East Asia Limited-Taiwan
5F, No. 361, Fusing 1st Rd
Gueishan Township,
Taoyuan County 333
Phone +886 3 2647 200
www.amphenol.com

Amphenol LTW Technology Co., Ltd.
5F-3, No.51, Sec.4, Zhongyang Rd.,
Tucheng Dis., New Taipei City
23675, Taiwan
Phone +886 2 7741 6888
sales@ltw-tech.com
www.amphenolltw.com

Turkey

Amphenol Turkey
Sun Plaza Kat: 15
Maslak Mah. Bilim Sok.No:15
34398 Sisli - Istanbul
Phone: +90 2123 679 220
www.amphenol.com.tr

United Kingdom

Amphenol Limited
Thanet Way, Whitstable
Kent, CT53JF
Phone +44 1227 773 200
www.amphenol.co.uk

USA

Amphenol-Tuchel Electronics /
Amphenol Sine Systems
44724 Morley Drive
48036 Clinton Township, MI
Phone +1 586 913 8630
www.amphenol.info

Amphenol Corporation
Corporate Headquarters
358 Hall Avenue
Wallingford, CT 06492
Phone +1 877 2674 366
Phone +1 203 2658 900
www.amphenol.com

More Amphenol companies can be
found here: www.amphenol.com



Important Notice

All technical data have been measured in a laboratory environment and can be different during practical usage of the product. Any product information is for descriptive usage only and not legally binding; particularly the information does not constitute or provide any legal guaranties ("Beschaffungsgarantie" or "Haltbarkeitsgarantie").

We reserve the right to change the design due to improvement in quality, development or production requirements. This catalogue must not be used in any form or manner without our prior approval in writing (Copyright Law, Fair Trading Law, Civil Code).

Your engineering sales representative: