

# 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**

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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 <sup>2</sup>	
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			

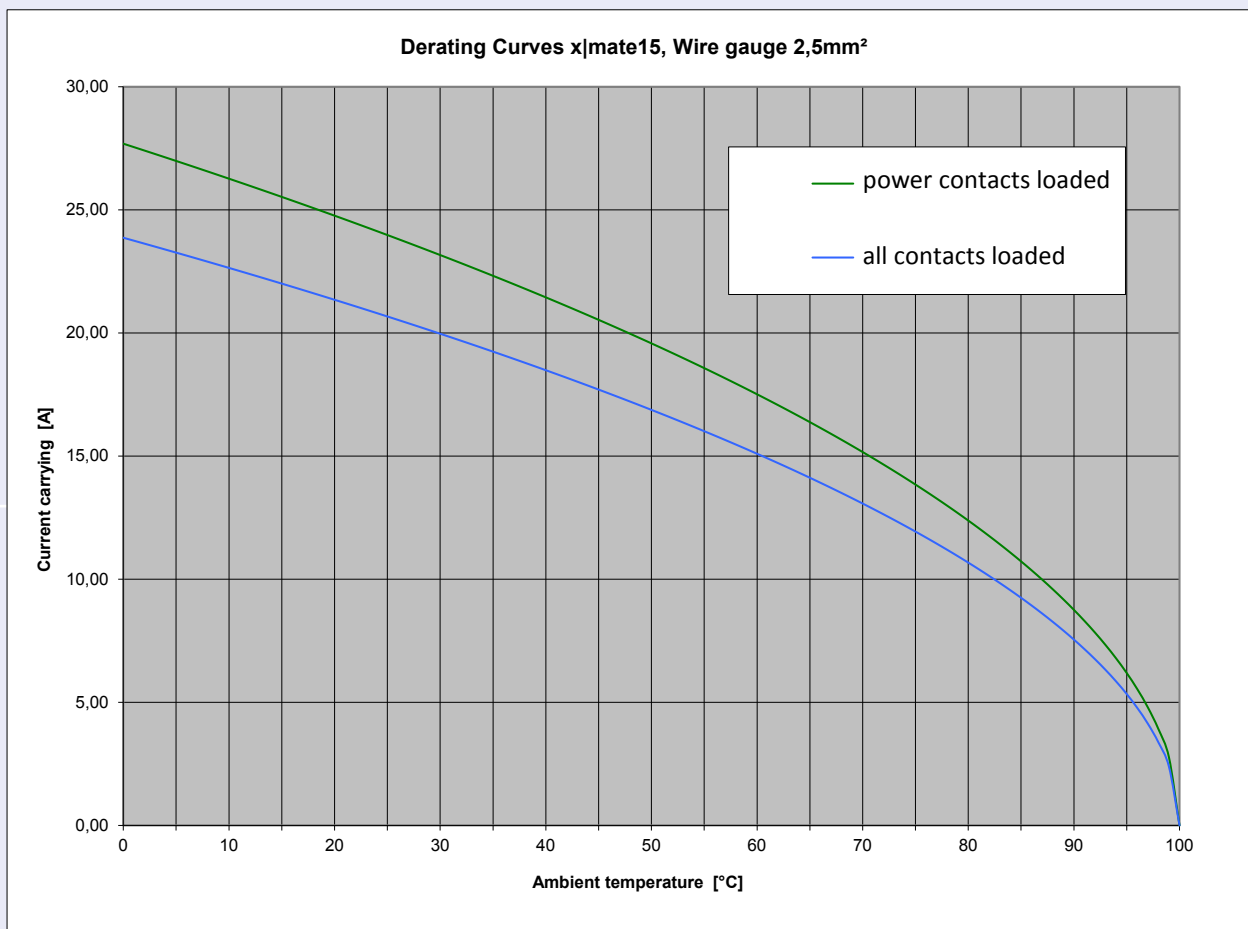
No of cont.	Part number	Wire lenght	Wire gauge	Drawing	Figures
<b>Connection cable male-female</b>					
3+2+PE	CA115 10 0 100 001	1 m	2,5 mm <sup>2</sup>		
3+2+PE	CA115 10 0 100 002	2 m	2,5 mm <sup>2</sup>		
3+2+PE	CA115 10 0 100 003	3 m	2,5 mm <sup>2</sup>		
3+2+PE	CA115 10 0 100 005	5 m	2,5 mm <sup>2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

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

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

No of contacts	Part number	Wire length	Wire gauge	Drawing	Figures
<b>Male receptacle</b>					
3+2+PE	C115 E02 041 G1	Without cable			
<b>Female receptacle</b>					
3+2+PE	C115 E05 041 G1	without cable			
<b>Male receptacle assembled</b>					
3+2+PE	CA115 61 0100 625	0,25 m	2,5 mm <sup>2</sup>		
3+PE	CA115 61 1100 625	0,25 m	2,5 mm <sup>2</sup>		
3+2+PE	CA115 61 2100 625	0,25 m	1,5 mm <sup>2</sup>		
3+PE	CA115 61 3100 625	0,25 m	1,5 mm <sup>2</sup>		
<b>Female receptacle assembled</b>					
3+2+PE	CA115 62 0100 625	0,25 m	2,5 mm <sup>2</sup>		
3+PE	CA115 62 1100 625	0,25 m	2,5 mm <sup>2</sup>		
3+2+PE	CA115 62 2100 625	0,25 m	1,5 mm <sup>2</sup>		
3+PE	CA115 62 3100 625	0,25 m	1,5 mm <sup>2</sup>		
<b>Turned crimp contacts</b>					
Supplied as	for wire gauge	AWG	Pieces	Male contact	Female contact
silver plating	0.14 - 0.37 mm <sup>2</sup>	26 - 22	100	VN01 016 0024 1C	VN02 016 0024 1C
	0.5 mm <sup>2</sup>	20	100	VN01 016 0025 1C	VN02 016 0025 1C
	0.75 - 1.0 mm <sup>2</sup>	20 - 16	100	VN01 016 0026 1C	VN02 016 0026 1C
	1.5 mm <sup>2</sup>	16 - 15	100	VN01 016 0027 1C	VN02 016 0027 1C
	2.5 mm <sup>2</sup>	14	100	VN01 016 0028 1C	VN02 016 0028 1C
gold plating	0.14 - 0.37 mm <sup>2</sup>	26 - 22	100	VN01 016 0024 2C	VN02 016 0024 2C
	0.5 mm <sup>2</sup>	20	100	VN01 016 0025 2C	VN02 016 0025 2C
	0.75 - 1.0 mm <sup>2</sup>	20 - 16	100	VN01 016 0026 2C	VN02 016 0026 2C
	1.5 mm <sup>2</sup>	16 - 15	100	VN01 016 0027 2C	VN02 016 0027 2C
	2.5 mm <sup>2</sup>	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  
Thyez Cedex, 74311  
Phone +33 4 5089 28 00  
www.amphenol-socapex.com

## Germany

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

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