Fl-Ex Power Cords

Electrical connection technology zone 1/21, 2/22 and industrial applications

A perfect connection

Providing electrical energy there, where it is most needed – even in hazardous areas for the Zones 1, 2, 21 and 22.

To be on the safe side

Non-stationary electrical apparatus have generally high requirements on the energy/power supply. Robust plugs and receptacles as well as a high chemical resistance are at the first glance very important. Electrical reliability is a must not only for all connectivity products. A high safety standard, a steady hold and faultless contacting even under vibration or the effects of an aggressive atmospheric environment are the basis for a secure and reliable utilisation. CEAG plugs and receptacles offer more, apart from the proven technology, this product series is defined by its innovative details. For example, the very efficient cable strain relief or the new coding system of the various versions offers different solutions for a secure and problem free utilization in all areas.

Use our competence - even in industrial environment

Our new range of FL-Ex Power Cord contains not only explosion protected connection technology.

Fitted by the same high level features, our connection technology range is also available for industrial use. Our robust plugs and receptacles for industrial use fulfils the highest standards in mechanical and chemical resistance.

Ex power cord - the comfortable solution

For the individual connection of electrical apparatus by connectors we developed a wide range of power cords for use in hazardous areas as well as for industrial applications. By use of FL-Ex Power Cords, electrical apparatus can be powered with energy flexible and safe.



Features

- **Nickel plated contact elements**
- **Easy plugging**
- **Optional mechanical interlock**
- **High degree of protection IP 66, even plugged**
- **Glove operation**
- **Lockable against unauthorized use**



EXKO238001E



K0238001L



EXKO238001F

Technical data

	Plug and receptacles for industrial application (industrial standard)
Permissible ambient temperature	-20 °C to +40 °C / -45 °C to + 45 °C (optional)[1]
IK-class according to EN 50102	IK 10 / 20 J
Rated voltage	3-pol.: 400 V / 4-/5-pol.: 690 V
Rated current	16 A / 32 A / 63 A
Frequency	50/60 Hz
External back up fuse	without therm. protection: 16 A / 32 A / 63 A
Protection class	I
Degree of protection accd. to EN 60529	IP 66
Enclosure material	Polyamide

	Plug and receptacles for Zone 1/2, 21/22
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex de IIC T6 / Ⓔx II 2 D Ex tD A21 IP66 T80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1039 (16 A) / PTB 99 ATEX 1041 (32 A) / PTB 00 ATEX 1070 (63 A) / PTB 01 ATEX 1069 (125 A)
IECEx Certificate of Conformity	IECEx BKI 04.0002 (16 A) / IECEx BKI 04.0006 (32 A) / IECEx BKI 04.0004 (63 A) / IECEx BKI 04.0005 (125 A)
Marking accd. to IECEx	Ex de IIC T6/T5 (16 A/32 A) / Ex de IIC T6 (63 A) / Ex de IIC T6 (125 A)
Permissible ambient temperature	-20 °C to +40 °C [1]
IK-class according to EN 50102	IK 10 / 20 J
Rated voltage	3-pol.: 400 V / 4-pol.: 690 V / 5-pol.: 500 V
Rated current	16 A / 32 A / 63 A / 125 A
Rated making / Rated breaking capacity AC-3 accd. EN 60947-3	U_e 690 V / I_e 16 A I U_e 690 V / I_e 32 A
Frequency	50/60 Hz
External back up fuse	without therm. protection: 16 A / 32 A / 63 A / 125 A
Degree of protection accd. to EN 60529	IP 66 (with protective cover or plugged in and powered)
Enclosure material	Polyamide

	Connecting cable
Rubber coated cord, heavy duty	H07 RN-F, dimensions see ordering details

[1] extended temperature range on request

Ordering details

Voltage	Plug / Coupler Ex / Industrie	Cord length	Weight approx.	Order No. (for industrial use only*)
16 A adaptor for industrial use for 3-pole connection				
200 - 250 V	3-pole / 3-pole	2 m x 3G 2.5 mm²	0.9 kg	**KO 238001 G0001**
16 A adaptor for industrial use for 5-pole connection				
380 - 415 V	5-pole / 5-pole	2 m x 5G 2.5 mm²	1.6 kg	**KO 238001 G0002**
32 A adaptor for industrial use for 4-pole connection				
380 - 415 V	4-pole / 4-pole	2 m x 4G 6 mm²	2.8 kg	**KO 238001 G0003**
32 A adaptor for industrial use for 5-pole connection				
380 - 415 V	5-pole / 5-pole	2 m x 5G 6 mm²	4.0 kg	**KO 238001 G0004**
16 A adaptor for industrial use for 5-pole / 3-pole connection				
380 - 415 V / 200 - 250 V	5-pole / 3-pole	2 m x 3G 2.5 mm²	1.0 kg	**KO 238001 G0005**

ATTENTION!

These adaptors are suitable for the power connection of industrial apparatus for servicing and maintenance in hazardous areas. They are not Ex approved and are only allowed for use outside of Ex areas or with a valid hot work permit!

*] Only for industrial use. Attention! Not approved for use in hazardous areas.



EXKO238001F



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EXKO238001E

Ordering details Power cord (single-side connected)

Voltage	Coding	Cable length	Weight approx.	Order No. (for Ex-zone 1/2, 21/22)	Order No. (for industrial use only*)
16 A Power cord for 3-pole connection incl. plug, 06 h and protection cap					
200 - 250 V		5 m x 3G 2.5 mm²	1.5 kg	**EXKO 238001 E0001**	**KO 238001 K0001**
200 - 250 V		10 m x 3G 2.5 mm²	3.9 kg	**EXKO 238001 E0002**	**KO 238001 K0002**
200 - 250 V		25 m x 3G 2.5 mm²	6.2 kg	**EXKO 238001 E0003**	**KO 238001 K0003**
16 A Power cord for 5-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 3G 2.5 mm²	1.6 kg	**EXKO 238001 E0004**	**KO 238001 K0004**
380 - 415 V		10 m x 3G 2.5 mm²	4.0 kg	**EXKO 238001 E0005**	**KO 238001 K0005**
380 - 415 V		25 m x 3G 2.5 mm²	6.3 kg	**EXKO 238001 E0006**	**KO 238001 K0006**
32 A Power cord for 4-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 4G 6 mm²	1.6 kg	**EXKO 238001 E0007**	**KO 238001 K0007**
380 - 415 V		10 m x 4G 6 mm²	4.0 kg	**EXKO 238001 E0008**	**KO 238001 K0008**
380 - 415 V		25 m x 4G 6 mm²	6.3 kg	**EXKO 238001 E0009**	**KO 238001 K0009**
32 A Power cord for 5-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 5G 6 mm²	4.6 kg	**EXKO 238001 E0010**	**KO 238001 K0010**
380 - 415 V		10 m x 5G 6 mm²	12.2 kg	**EXKO 238001 E0011**	**KO 238001 K0011**
380 - 415 V		25 m x 5G 6 mm²	19.8 kg	**EXKO 238001 E0012**	**KO 238001 K0012**
63 A Power cord for 4-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 4G 16 mm²	7.9 kg	**EXKO 238001 E0013**	**KO 238001 K0013**
380 - 415 V		10 m x 4G 16 mm²	21.3 kg	**EXKO 238001 E0014**	**KO 238001 K0014**
380 - 415 V		25 m x 4G 16 mm²	34.8 kg	**EXKO 238001 E0015**	**KO 238001 K0015**
380 - 415 V		5 m x 4G 25 mm²	11.3 kg	**EXKO 238001 E0016**	**KO 238001 K0016**
380 - 415 V		10 m x 4G 25 mm²	31.2 kg	**EXKO 238001 E0017**	**KO 238001 K0017**
380 - 415 V		25 m x 4G 25 mm²	51.2 kg	**EXKO 238001 E0018**	**KO 238001 K0018**
63 A Power cord for 5-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 5G 16 mm²	9.6 kg	**EXKO 238001 E0019**	**KO 238001 K0019**
380 - 415 V		10 m x 5G 16 mm²	26.4 kg	**EXKO 238001 E0020**	**KO 238001 K0020**
380 - 415 V		25 m x 5G 16 mm²	43.2 kg	**EXKO 238001 E0021**	**KO 238001 K0021**
380 - 415 V		5 m x 5G 25 mm²	13.7 kg	**EXKO 238001 E0022**	**KO 238001 K0022**
380 - 415 V		10 m x 5G 25 mm²	38.4 kg	**EXKO 238001 E0023**	**KO 238001 K0023**
380 - 415 V		25 m x 5G 25 mm²	63.1 kg	**EXKO 238001 E0024**	**KO 238001 K0024**
125 A Power cord for 4-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 4G 35 mm²	15.2 kg	**EXKO 238001 E0025**	**KO 238001 K0025**
380 - 415 V		10 m x 4G 35 mm²	41.7 kg	**EXKO 238001 E0026**	**KO 238001 K0026**
380 - 415 V		25 m x 4G 35 mm²	68.1 kg	**EXKO 238001 E0027**	**KO 238001 K0027**
380 - 415 V		5 m x 4G 50 mm²	20.4 kg	**EXKO 238001 E0028**	**KO 238001 K0028**
380 - 415 V		10 m x 4G 50 mm²	56.7 kg	**EXKO 238001 E0029**	**KO 238001 K0029**
380 - 415 V		25 m x 4G 50 mm²	93.1 kg	**EXKO 238001 E0030**	**KO 238001 K0030**
125 A Power cord for 5-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 5G 35 mm²	16.2 kg	**EXKO 238001 E0031**	**KO 238001 K0031**
380 - 415 V		10 m x 5G 35 mm²	44.3 kg	**EXKO 238001 E0032**	**KO 238001 K0032**
380 - 415 V		25 m x 5G 35 mm²	72.4 kg	**EXKO 238001 E0033**	**KO 238001 K0033**
380 - 415 V		5 m x 5G 50 mm²	22.7 kg	**EXKO 238001 E0034**	**KO 238001 K0034**
380 - 415 V		10 m x 5G 50 mm²	63.2 kg	**EXKO 238001 E0035**	**KO 238001 K0035**
380 - 415 V		25 m x 5G 50 mm²	103.7 kg	**EXKO 238001 E0036**	**KO 238001 K0036**

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EXKO238001F

Ordering details Extension cord (double-side connected)

Voltage	Coding	Cable length	Weight approx.	Order No. (for Ex-Zone 1/2, 21/22)	Order No. (for industrial use only*)
16 A Extension cord for 3-pole connection incl. plug & coupler, 06 h					
200 - 250 V		5 m x 3G 2.5 mm²	1.6 kg	**EXKO 238001 F0001**	**KO 238001 L0001**
200 - 250 V		10 m x 3G 2.5 mm²	3.9 kg	**EXKO 238001 F0002**	**KO 238001 L0002**
200 - 250 V		25 m x 3G 2.5 mm²	6.3 kg	**EXKO 238001 F0003**	**KO 238001 L0003**
16 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 2.5 mm²	2.3 kg	**EXKO 238001 F0004**	**KO 238001 L0004**
380 - 415 V		10 m x 5G 2.5 mm²	4.6 kg	**EXKO 238001 F0005**	**KO 238001 L0005**
380 - 415 V		25 m x 5G 2.5 mm²	7.0 kg	**EXKO 238001 F0006**	**KO 238001 L0006**
32 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 6 mm²	4.2 kg	**EXKO 238001 F0007**	**KO 238001 L0007**
380 - 415 V		10 m x 4G 6 mm²	8.9 kg	**EXKO 238001 F0008**	**KO 238001 L0008**
380 - 415 V		25 m x 4G 6 mm²	13.7 kg	**EXKO 238001 F0009**	**KO 238001 L0009**
32 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 6 mm²	6.2 kg	**EXKO 238001 F0010**	**KO 238001 L0010**
380 - 415 V		10 m x 5G 6 mm²	13.8 kg	**EXKO 238001 F0011**	**KO 238001 L0011**
380 - 415 V		25 m x 5G 6 mm²	21.4 kg	**EXKO 238001 F0012**	**KO 238001 L0012**
63 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 16 mm²	8.9 kg		**KO 238001 L0013**
380 - 415 V		10 m x 4G 16 mm²	22.4 kg		**KO 238001 L0014**
380 - 415 V		25 m x 4G 16 mm²	35.8 kg		**KO 238001 L0015**
63 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 25 mm²	12.3 kg		**KO 238001 L0016**
380 - 415 V		10 m x 4G 25 mm²	32.2 kg		**KO 238001 L0017**
380 - 415 V		25 m x 4G 25 mm²	52.4 kg		**KO 238001 L0018**
63 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 16 mm²	10.7 kg		**KO 238001 L0019**
380 - 415 V		10 m x 5G 16 mm²	27.5 kg		**KO 238001 L0020**
380 - 415 V		25 m x 5G 16 mm²	44.3 kg		**KO 238001 L0021**
63 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 25 mm²	14.8 kg		**KO 238001 L0022**
380 - 415 V		10 m x 5G 25 mm²	39.5 kg		**KO 238001 L0023**
380 - 415 V		25 m x 5G 25 mm²	62.2 kg		**KO 238001 L0024**
125 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 35 mm²	16.7 kg		**KO 238001 L0025**
380 - 415 V		10 m x 4G 35 mm²	43.7 kg		**KO 238001 L0026**
380 - 415 V		25 m x 4G 35 mm²	69.6 kg		**KO 238001 L0027**
125 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 50 mm²	21.8 kg		**KO 238001 L0028**
380 - 415 V		10 m x 4G 50 mm²	58.3 kg		**KO 238001 L0029**
380 - 415 V		25 m x 4G 50 mm²	94.5 kg		**KO 238001 L0030**
125 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 35 mm²	17.8 kg		**KO 238001 L0031**
380 - 415 V		10 m x 5G 35 mm²	45.9 kg		**KO 238001 L0032**
380 - 415 V		25 m x 5G 35 mm²	74.1 kg		**KO 238001 L0033**
125 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 50 mm²	24.2 kg		**KO 238001 L0034**
380 - 415 V		10 m x 5G 50 mm²	64.8 kg		**KO 238001 L0035**
380 - 415 V		25 m x 5G 50 mm²	105.2 kg		**KO 238001 L0036**

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