

FL - EX POWER CORD

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

1 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 fulfills 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.

International approvals

- 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
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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 $\pm$ 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 94/9/EC	Ⓔ II 2 G Ex de IIC T6 / Ⓔ 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 $\pm$ 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	
AC3 accd. EN 60947-3	U _b 690 V / I _b 16 A U _b 690 V / I _b 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
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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 mm ²	0.9 kg	KO238001G0001
16 A adaptor for industrial use for 5-pole connection				
380 - 415 V	5-pole / 5-pole	2 m x 5G 2.5 mm ²	1.6 kg	KO238001G0002
32 A adaptor for industrial use for 4-pole connection				
380 - 415 V	4-pole / 4-pole	2 m x 4G 6 mm ²	2.8 kg	KO238001G0003
32 A adaptor for industrial use for 5-pole connection				
380 - 415 V	5-pole / 5-pole	2 m x 5G 6 mm ²	4.0 kg	KO238001G0004
16 A adaptor for industrial use for 5-pole / 3-pole connection				
380 - 415 V / 2(0 - 250 V	5-pole / 3-pole	2 m x 3G 2.5 mm ²	1.0 kg	KO238001G0005

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.**

Assembled cables

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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 mm ²	1.5 kg	EXKO238001E0001	KO238001K0001
200 - 250 V		10 m x 3G 2.5 mm ²	3.9 kg	EXKO238001E0002	KO238001K0002
200 - 250 V		25 m x 3G 2.5 mm ²	6.2 kg	EXKO238001E0003	KO238001K0003
16 A Power cord for 5-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 3G 2.5 mm ²	1.6 kg	EXKO238001E0004	KO238001K0004
380 - 415 V		10 m x 3G 2.5 mm ²	4.0 kg	EXKO238001E0005	KO238001K0005
380 - 415 V		25 m x 3G 2.5 mm ²	6.3 kg	EXKO238001E0006	KO238001K0006
32 A Power cord for 4-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 4G 6 mm ²	1.6 kg	EXKO238001E0007	KO238001K0007
380 - 415 V		10 m x 4G 6 mm ²	4.0 kg	EXKO238001E0008	KO238001K0008
380 - 415 V		25 m x 4G 6 mm ²	6.3 kg	EXKO238001E0009	KO238001K0009
32 A Power cord for 5-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 5G 6 mm ²	4.6 kg	EXKO238001E0010	KO238001K0010
380 - 415 V		10 m x 5G 6 mm ²	12.2 kg	EXKO238001E0011	KO238001K0011
380 - 415 V		25 m x 5G 6 mm ²	19.8 kg	EXKO238001E0012	KO238001K0012
63 A Power cord for 4-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 4G 16 mm ²	7.9 kg	EXKO238001E0013	KO238001K0013
380 - 415 V		10 m x 4G 16 mm ²	21.3 kg	EXKO238001E0014	KO238001K0014
380 - 415 V		25 m x 4G 16 mm ²	34.8 kg	EXKO238001E0015	KO238001K0015
380 - 415 V		5 m x 4G 25 mm ²	11.3 kg	EXKO238001E0016	KO238001K0016
380 - 415 V		10 m x 4G 25 mm ²	31.2 kg	EXKO238001E0017	KO238001K0017
380 - 415 V		25 m x 4G 25 mm ²	51.2 kg	EXKO238001E0018	KO238001K0018
63 A Power cord for 5-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 5G 16 mm ²	9.6 kg	EXKO238001E0019	KO238001K0019
380 - 415 V		10 m x 5G 16 mm ²	26.4 kg	EXKO238001E0020	KO238001K0020
380 - 415 V		25 m x 5G 16 mm ²	43.2 kg	EXKO238001E0021	KO238001K0021
380 - 415 V		5 m x 5G 25 mm ²	13.7 kg	EXKO238001E0022	KO238001K0022
380 - 415 V		10 m x 5G 25 mm ²	38.4 kg	EXKO238001E0023	KO238001K0023
380 - 415 V		25 m x 5G 25 mm ²	63.1 kg	EXKO238001E0024	KO238001K0024
125 A Power cord for 4-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 4G 35 mm ²	15.2 kg	EXKO238001E0025	KO238001K0025
380 - 415 V		10 m x 4G 35 mm ²	41.7 kg	EXKO238001E0026	KO238001K0026
380 - 415 V		25 m x 4G 35 mm ²	68.1 kg	EXKO238001E0027	KO238001K0027
380 - 415 V		5 m x 4G 50 mm ²	20.4 kg	EXKO238001E0028	KO238001K0028
380 - 415 V		10 m x 4G 50 mm ²	56.7 kg	EXKO238001E0029	KO238001K0029
380 - 415 V		25 m x 4G 50 mm ²	93.1 kg	EXKO238001E0030	KO238001K0030
125 A Power cord for 5-pole connection incl. plug, 06 h and protection cap					
380 - 415 V		5 m x 5G 35 mm ²	16.2 kg	EXKO238001E0031	KO238001K0031
380 - 415 V		10 m x 5G 35 mm ²	44.3 kg	EXKO238001E0032	KO238001K0032
380 - 415 V		25 m x 5G 35 mm ²	72.4 kg	EXKO238001E0033	KO238001K0033
380 - 415 V		5 m x 5G 50 mm ²	22.7 kg	EXKO238001E0034	KO238001K0034
380 - 415 V		10 m x 5G 50 mm ²	63.2 kg	EXKO238001E0035	KO238001K0035
380 - 415 V		25 m x 5G 50 mm ²	103.7 kg	EXKO238001E0036	KO238001K0036

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


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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 mm ²	1.6 kg	EXKO238001F0001	KO238001L0001
200 - 250 V		10 m x 3G 2.5 mm ²	3.9 kg	EXKO238001F0002	KO238001L0002
200 - 250 V		25 m x 3G 2.5 mm ²	6.3 kg	EXKO238001F0003	KO238001L0003
16 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 2.5 mm ²	2.3 kg	EXKO238001F0004	KO238001L0004
380 - 415 V		10 m x 5G 2.5 mm ²	4.6 kg	EXKO238001F0005	KO238001L0005
380 - 415 V		25 m x 5G 2.5 mm ²	7.0 kg	EXKO238001F0006	KO238001L0006
32 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 6 mm ²	4.2 kg	EXKO238001F0007	KO238001L0007
380 - 415 V		10 m x 4G 6 mm ²	8.9 kg	EXKO238001F0008	KO238001L0008
380 - 415 V		25 m x 4G 6 mm ²	13.7 kg	EXKO238001F0009	KO238001L0009
32 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 6 mm ²	6.2 kg	EXKO238001F0010	KO238001L0010
380 - 415 V		10 m x 5G 6 mm ²	13.8 kg	EXKO238001F0011	KO238001L0011
380 - 415 V		25 m x 5G 6 mm ²	21.4 kg	EXKO238001F0012	KO238001L0012
63 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 16 mm ²	8.9 kg		KO238001L0013
380 - 415 V		10 m x 4G 16 mm ²	22.4 kg		KO238001L0014
380 - 415 V		25 m x 4G 16 mm ²	35.8 kg		KO238001L0015
63 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 25 mm ²	12.3 kg		KO238001L0016
380 - 415 V		10 m x 4G 25 mm ²	32.2 kg		KO238001L0017
380 - 415 V		25 m x 4G 25 mm ²	52.4 kg		KO238001L0018
63 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 16 mm ²	10.7 kg		KO238001L0019
380 - 415 V		10 m x 5G 16 mm ²	27.5 kg		KO238001L0020
380 - 415 V		25 m x 5G 16 mm ²	44.3 kg		KO238001L0021
63 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 25 mm ²	14.8 kg		KO238001L0022
380 - 415 V		10 m x 5G 25 mm ²	39.5 kg		KO238001L0023
380 - 415 V		25 m x 5G 25 mm ²	62.2 kg		KO238001L0024
125 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 35 mm ²	16.7 kg		KO238001L0025
380 - 415 V		10 m x 4G 35 mm ²	43.7 kg		KO238001L0026
380 - 415 V		25 m x 4G 35 mm ²	69.6 kg		KO238001L0027
125 A Extension cord for 4-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 4G 50 mm ²	21.8 kg		KO238001L0028
380 - 415 V		10 m x 4G 50 mm ²	58.3 kg		KO238001L0029
380 - 415 V		25 m x 4G 50 mm ²	94.5 kg		KO238001L0030
125 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 35 mm ²	17.8 kg		KO238001L0031
380 - 415 V		10 m x 5G 35 mm ²	45.9 kg		KO238001L0032
380 - 415 V		25 m x 5G 35 mm ²	74.1 kg		KO238001L0033
125 A Extension cord for 5-pole connection incl. plug & coupler, 06 h					
380 - 415 V		5 m x 5G 50 mm ²	24.2 kg		KO238001L0034
380 - 415 V		10 m x 5G 50 mm ²	64.8 kg		KO238001L0035
380 - 415 V		25 m x 5G 50 mm ²	105.2 kg		KO238001L0036

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