



Operating Instructions LL-300

Explosion Protected Cable Extension Reels

Model numbers LL-300

The explosion protected cable reel meets all relevant provisions of the 2014/34/EU (ATEX Equipment) Directive.

The cable reels are manufactured and tested according to the manufacturer standards DIN EN 60309:2000, DIN EN 61242:1997 and DIN EN 61316:2000.

Where can they be used

The cable reels are suitable for use in potentially explosive areas, Zones 1 and 2.

The Wolf cable reels are manufactured from styrene-butadiene rubber. This material guarantees a high degree of mechanical protection. The cable reels are resistant to oils and acids. A mature design guarantees the technical reliability and a high standard of quality. The robust construction makes them particularly suitable for use in construction and industry and by craftsmen. The cable reel has an internal brake which does not rub against the roller.

Technical Data	LL-300/
Certificate number	PTB 03 ATEX 1186
Approval code	II 2 G Ex de IIC* T6
	CE ₀₁₀₂
Ambient temperature	-20°C to +40°C
IP rating	IP54
Power rating 110 volt	450 watt (wound) 1700 watt (fully unwound)
Power rating 230 volt	1000 watt (wound) 3600 watt (fully unwound)
Cable type	30 metre, HOFR 3 x 2.5 mm ²
Net Weight	
ATX	11.9kg
CEAG	12kg
Stahl	13kg

*Use of the cable reel for the explosion group IIC is only permitted if the extension reel is connected to the supply before the equipment is connected to the extension or the cable reel is on a dissipative floor or dissipative and grounded base. Otherwise, the cable reel can only be used for explosion groups IIA and IIB in Zones 1 and 2.

Warranty

The cable Reels have a 12 month warranty period. The warranty covers only materials and manufacturing defects. This excludes damage to the cable.

User abuse and or failure to comply with the instruction above will invalidate the warranty and may also invalidate the safety certification.



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Operating Instructions
Explosion protected cable reels

Types 502Ex and 518Ex

GIFAS
E L E C T R I C



Zone 1, Device Category 2 (2014/34/EU)

GIFAS ELECTRIC GmbH – Borsigstr. 9, 41469 Neuss-Norf
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<http://www.gifas.de> Certified according to ISO 9001 and 14001

Operating Instructions



Types 502Ex and 518Ex

Contents:

- 1 Area of application and characteristics
- 2 Technical data
- 3 Safety notes
4. Compliance with standards
5. Servicing and maintenance
6. Repairs and maintenance

1. Area of application and characteristics

The cable reels are suitable for use in potentially explosive areas of Zones 1 and 2.

GIFAS cable reels are manufactured from styrene-butadiene rubber. This material guarantees a high mechanical load capacity. The cable reels are thus resistant to oils and acids. A mature design guarantees the technical reliability and the high standard of quality. The robust construction makes them particularly suitable for use in construction and industry and by craftsmen. The 502Ex cable reel has an internal brake which does not rub against the roller.

2. Technical data	502Ex	518Ex
Device designation according to 2014/34/EU Explosion protection EC-Type Examination Certificate Rated voltage: Rated current: Ambient temperature range:	II 2 G CE 0102 EEx de IIC T6 EEx de IIA/IIB* T6 PTB 03 ATEX 1186 up to 750 V, 50/60Hz** max. 16 A** -20 °C to +40 °C	
Protection classification: Protection class: Maximum load Cable 3x2.5 qmm: Cable 5x2.5 qmm:	IP54 min. IP 54, max. IP66*** Protection class 2, insulated wound 1000 W / 230 V unwound 3600 W / 230 V wound 4800 W / 400 V unwound 11000W/400 V	
502Ex net weight:	approx. 4 kg approx. 8 kg	
Maximum cable lengths:	50 m 3x2.5 qmm 45 m + 5 m 3x2.5 qmm 30 m 4x2.5 qmm 45 m + 5 m 4x2.5 qmm 30 m 5x2.5 qmm 45 m + 5 m 5x2.5 qmm	

* Use of the 502Ex cable reel for the explosion group IIC is only permitted if the cable is connected first or the cable reel is on a dissipative floor or dissipative and grounded base. Otherwise, the cable reel can only be used for explosion groups IIA and IIB in all Zones.

** The rated values are maximum values. The actual electrical values are determined by the installed electrical operating equipment. See the information on the rating plate.

*** The protection classification depends on the installed plug connectors. See the information on the rating plate.

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Types 502Ex and 518Ex

3. Safety notes

The labels on the cable reels must be read without fail before use.

The 502Ex and 518Ex cable reels are not suitable for the Zones 0, 20, 21 and 22.

The temperature classes and types of ignition protection information on the equipment must be taken account of. In order to avoid unauthorised heating of the cables, particularly in the wound state, the maximum loads stated must not be exceeded (see also "Technical data" and the markings on the cable reel).

Use of the 502Ex cable reel for the explosion group IIC is only permitted if the cable is connected first or the cable reel is on a dissipative floor or dissipative and grounded base. Otherwise, the cable reel can only be used for explosion groups IIA and IIB in all Zones.

No modifications, attachments or conversions to the cable reels must be made. The cable reels must only be used in undamaged condition.

Observe the national safety and accident prevention regulations.

4. Compliance with standards

The fundamental health and safety requirements are satisfied by compliance of the cable reels with EN 50014:1997+A1+A2, EN 50018:2000 and EN 5019:2000. The cable reels also conform with the European Council Directive 2014/34/EU: Equipment and Protection Systems Intended for Use in Potentially Explosive Atmospheres. The cable reels are manufactured and tested according to the state of the art in accordance with the manufacturer standards DIN EN 60309:2000, DIN EN 61242:1997 and DIN EN 61316:2000. The GIFAS W. J. Gröninger ELECTRIC GmbH quality management system complies with DIN EN ISO 9001:2000.

5. Servicing and maintenance

The applicable national regulations in force must be complied with for the servicing and maintenance of electric operating equipment in potentially explosive areas. For example, in Germany these are BetrSichV (Industrial Safety Regulations) or VDE 0105 Part 9.

It must be ensured that the 502Ex cable reel is free of electrical current and voltage before opening. The required maintenance intervals and repeat tests must be observed by the operator. If it is discovered during maintenance that the plug connections, roller or front covers are damaged, the cable reel must be returned to GIFAS for repair.

Cable reel modifications or changes are not permitted.

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Types 502Ex and 518Ex

6. Repairs and maintenance

Only original parts from GIFAS must be used for repairs and maintenance. Repairs or maintenance which concern explosion protection must only be performed by GIFAS or a qualified electrician. This electrician must be familiar with and take account of the relevant standards concerning explosion protection.

All repairs or maintenance must be carried out in compliance with the national regulations.

7. Accessories



Trolley for the cable reel

Base frame for the plug socket for the 518Ex cable reel



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14001

Declaration of Conformity

Document-No: Ko13/16

Date: May 2016

Manufacturer: GIFAS-ELECTRIC GmbH
Borsigstraße 9
41469 Neuss

Product description: GIFAS Solid Rubber Cable Reel 502Ex
Type: 502EX...
MAF-No.: diverse

The designated product shown above satisfies the requirements specified in the following European directive:

Number: **2014/34/EU**
Text: **DIRECTIVE 2014/34/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres (recast)

Agreement of the designated products with the requirements specified in directive no. 2014/34/EU was verified on the basis of the following standards or normative documents:

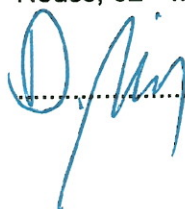
EN 50014:1997+A1+A2
EN 50018:2000
EN 50019:2000

EC-Type-Examination Certificate PTB 03 ATEX 1186

Issuer Managing Director, Quality Control Manager

Location, Date Neuss, 02nd Mai 2016

Legally binding signature:



This declaration certifies conformance with the above mentioned Directives. Affirmation of attributes in a legal sense is not included.

Es gelten die AGB der GIFAS ELECTRIC GmbH (einsehbar unter www.gifas.de/agb)

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