



SAFETY IS OUR TOP PRIORITY.

Whether in the chemical sector, energy production or in heavy industry: Wherever flammable substances are produced, processed, transported or stored, safety plays a particularly important role. Our recommendation for ATEX-certified, quality GIFAS products can be found in this chapter.

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GAS

Electrical equipment for explosive gas atmospheres (Device group II [Chemistry])

EPL	Standards IEC/EN		Type of protection
Ga	60079-0		General requirements
	60079-11	ia	Intrinsic safety
	60079-18	ma	Encapsulation
	60079-26		Equipment with equipment protection level (EPL) Ga
	60079-28	op is	Protection of equipment and transmission systems using optical radiation
Gb	60079-1	d	Flame-proof enclosure
	60079-2	p, px, py	Pressurised enclosure
	60079-5	q	Powder-filled enclosure
	60079-6	o	Oil immersion
	60079-7	e	Increased safety
	60079-11	ib	Intrinsic safety
	60079-18	mb	Encapsulation
	60079-25		Intrinsically safe electrical systems
	60079-27		Fieldbus intrinsically safe concept (FISCO)
	60079-28	op is op pr op sh	Protection of equipment and transmission systems using optical radiation
Gc	60079-11	ic	Intrinsic safety
	60079-18	mc	Encapsulation
	60079-15	nA	Type of protection «non-sparking»
	60079-15	nR	Steam cover
	60079-15	nL	Limited energy (old edition only)
	60079-15	nC	Sparking apparatus
	60079-2	pz	Pressurised enclosure
	60079-28	op is op pr op sh	Protection of equipment and transmission systems using optical radiation

DUST

Electrical apparatus for use in the presence of combustible dust (Device group III)

EPL	standards IEC/EN		Type of protection
Da	60079-0		General requirements
	60079-31	ta	Protection by enclosures
	60079-11	ia	Protection by intrinsic safety (iaD IEC/EN 61241-11)
	60079-18	ma	Protection by encapsulation
Db	60079-31	tb	Protection by enclosures
	60079-11	ib	Protection by intrinsic safety (ibD IEC/EN 61241-11)
	60079-18	mb	Protection by encapsulation
	61241-4	pD	Protection by excessive pressure 'pD'
Dc	60079-31	tc	Protection by enclosures
	60079-11	ic	Protection by intrinsic safety
	60079-18	mc	Protection by encapsulation
	61241-4	pD	Protection by excessive pressure 'pD'

Marking according to directive 94/9/EG (ATEX 95)

Identification number of the notified body (responsible for quality assurance)	Category zones
0102 Physikalisch-Technische Bundesanstalt PTB, Germany	1 zones 0 / 20
0158 DEKRA EXAM GmbH, Germany	2 zones 1 / 21
0032 TÜV CERT-Zertifizierungsstelle, Germany	3 zones 2 / 22
0344 KEMA N.V., Netherlands	
0081 LCIE Laboratoire Central des Industries Electriques, France	
0080 INERIS, France	G = Gas
1180 BASEEFA, Great Britain	D = Staub (Dust)
1258 Electrosuisse SEV, Switzerland	

CE 0102 **Ex** II 2G

Marking according EN 60079-0

Equipment groups (Gas)	
IIA	Acetone, ethane, benzene, automotive gasoline, butane, propane, methane
IIB	Ethylene, town gas
IIC	Hydrogen, acetylene

Temperature class	Max. surface temperature
T1	< 450 °C
T2	< 300 °C
T3	< 200 °C
T4	< 135 °C
T5	< 100 °C
T6	< 85 °C

Ex d IIC T5 Gb

EPL	Standards IEC/EN	Type of protection
Ga	60079-11	ia Intrinsic safety
	60079-18	ma Encapsulation
Gb	60079-1	d Flame-proof enclosure
	60079-2	p, px, py Pressurised enclosure
	60079-7	e Increased safety
	60079-11	ib Intrinsic safety
	60079-18	mb Encapsulation
Gc	60079-15	nA Type of protection "non-sparking"
	60079-15	nR Steam cover
	60079-2	pz Pressurised enclosure

zone	Equipment protection level (EPL)
0	Ga
1	Gb and Ga
2	Gc, Gb and Ga

Surface temperature
(see EN 60078-0)

CE 0102 **Ex** II 2D
II 2D

Ex tD A21 IP68 T95°C
Ex tb IIIC T95°C Db

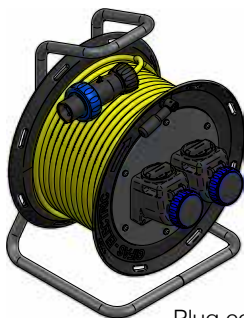
EPL	Standards IEC/EN	Type of protection
Da	60079-31	ta Protection by enclosures
	60079-11	ia Protection by intrinsic safety
	60079-18	ma Protection by encapsulation
Gb	60079-31	tb Protection by enclosures
	60079-11	ib Protection by intrinsic safety
	60079-18	mb Protection by encapsulation
	61241-4	pD Protection by excessive pressure
Gc	60079-31	tc Protection by enclosures
	61241-4	pD Protection by excessive pressure

Equipment groups (Dust)	
IIIA	Fibres
IIIB	non-conductive dust
IIIC	Conductive dust

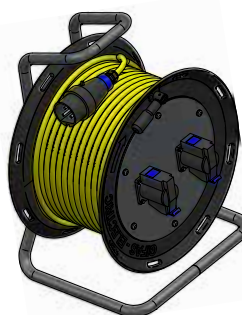
Zone	Equipment protection level (EPL)
20	Da
21	Db and Da
22	Dc, Db and Da

IP	First digit (against ingress of solid foreign bodies/against access to hazardous parts) =	Second digit (against ingress of water with damaging effects)
4	≥ 1.0 mm diameter	Splash-proof
5	Dust-proof	Water jet
6	Dust-tight	Strong water jet
7		Temporary immersion
8		Continuous immersion

Series 573 STAHL / APPLETON



Plug connectors
from STAHL
Item no. 860636



Plug connectors
from APPLETON
Similar to illustration

Product features

- Cable reel in EX version
- Suitable for zone 1 and 2
- Reel body made of conductive elastomer
- Stable tubular steel frame with ball bearings
- Crank handle rotatable and foldable
- Mechanical latching mechanism for locking
- Stainless steel side plates for mounting the flange sockets, as connection to the frame
- Connection via Ex-e-terminals to the flange socket outlet, with swivel bearing (instead of axle)
- With warning notice: "Using the cable reel in an environment at risk of explosion of gas group IIC is only permitted if the cable is first connected or the cable reel is standing on a conductive base or conductive and earthed base."
- Easy maintenance inside the reel (no additional encapsulation)
- Resistant to oils and acids, resistant to chemical influences
- UV and weather resistant
- High mechanical load capacity
- Impact-resistant and ageing-resistant
- Very good conductivity
- The minimum cable requirement is H07

Technical data

Labelling	Ex II 2G / CE1258
Explosion protection	Ex db ed IIC T6 Gb
EC type approval certificate	SEV 18 ATEX 0130
Protection category	IP66
Protection class	II
Sim. factor	1
Rated voltage*	up to 750 V, 50/60 Hz
Rated current*	max. 32 A
Temperature range	-20° C up to +40° C
Max. load	
	cable 3x2,5mm ² unrolled 3600W / 230V
	cable 5x2,5mm ² unrolled 11000W / 400V
	cable 5x6mm ² unrolled 22000W / 400V
Weight	20m PROFLEXX-07 approx. 13kg
	25m PROFLEXX-07 approx. 18kg
Measurements (WxHxD)	
	STAHL 370x532x408
	ATX 370x532x354

* The rated values are maximum values. The actual electrical values are determined by the installed electrical equipment, see nameplate.

Safety precautions

Always read the label on the cable reel before use!

Cable reel 573-Ex is not suitable for zones 0, 20, 21 and 22. The temperature class and ignition protection classes specified on the equipment must be complied with. In order to avoid the non-permitted heating of cables, particularly while coiled, the maximum loads specified must not be exceeded. No modifications or alterations must be made to the cable reels. The cable reels must only be operated in undamaged condition. Note national safety and accident prevention regulations.

Item no.	Symbols Output	Description
860675	STAHL	573-Ex STAHL, Input 30m Cable 3x2,5mm ² mit CEE-Stecker 3x16A/230V, Output 1 CEE-Einbausteckdose 3x16A/230V
860636	STAHL	573-Ex STAHL, Input 25m cable 3x2,5mm ² with CEE connector 3x16A/230V, Output 2 CEE-Plug socket 3x16A/230V
860637	STAHL	573-Ex STAHL, Input 25m cable 5x2,5mm ² with CEE connector 5x16A/400V, Output 1 CEE-Plug socket 3x16A/230V, 1 CEE-Plug socket 5x16A/400V
860638	STAHL	573-Ex STAHL, Input 20m cable 5x6mm ² with CEE connector 5x32A/400V, Output 1 CEE-Plug socket 5x32A/400V
860676	STAHL	573-Ex STAHL, Input 30m Cable 5x2,5mm ² with CEE-plug 5x16A/400V, Output 1 CEE-Plug socket 5x16A/400V
860677	APPLETON	573-Ex APPLETON, Input 30m Cable 3x2,5mm ² with CEE-plug 3x16A/230V, Output 1 Plug socket 3x16A/230V
860639	APPLETON	573-Ex APPLETON, Input 25m cable 3x2,5mm ² with CEE connector 3x16A/230V, Output 2 CEE-Plug socket 3x16A/230V
860640	APPLETON	573-Ex APPLETON, Input 25m cable 5x2,5mm ² with CEE connector 5x16A/400V, Output 1 CEE-Plug socket 3x16A/230V, 1 CEE-Plug socket 5x16A/400V
860641	APPLETON	573-Ex APPLETON, Input 20m cable 5x6mm ² with CEE connector 5x32A/400V, Output 1 CEE-Plug socket 5x32A/400V
860678	APPLETON	573-Ex APPLETON, Input 50m Cable 3x2,5mm ² with CEE-plug 3x16A/230V, Output 1 CEE-Plug socket 3x16A/230V

Series 573 CEAG



Plug connectors
from CEAG
Item no. 860673



Plug connectors
from CEAG
Item no. 860635

Product features

- Cable reel in EX version
- Suitable for zone 1 and 2
- Reel body made of conductive elastomer
- Stable tubular steel frame with ball bearings
- Crank handle rotatable and foldable
- Mechanical latching mechanism for locking
- Stainless steel side plates for mounting the flange sockets, as connection to the frame
- Connection via Ex-e-terminals to the flange socket outlet, with swivel bearing (instead of axle)
- With warning notice: "Using the cable reel in an environment at risk of explosion of gas group IIC is only permitted if the cable is first connected or the cable reel is standing on a conductive base or conductive and earthed base."
- Easy maintenance inside the reel (no additional encapsulation)
- Resistant to oils and acids, resistant to chemical influences
- UV and weather resistant
- High mechanical load capacity
- Impact-resistant and ageing-resistant
- Very good conductivity
- The minimum cable requirement is H07

Technical data

Labelling	Ⓔ II 2G / CE1258
Explosion protection	Ex db ed IIC T6 Gb
EC type approval certificate	SEV 18 ATEX 0130
Protection category	IP66
Protection class	II
Sim. factor	1
Rated voltage*	up to 750 V, 50/60 Hz
Rated current*	max. 32 A
Temperature range	-20° C up to +40° C
Max. load	
cable 3x2,5mm ²	unrolled 3600W / 230V
cable 5x2,5mm ²	unrolled 11000W / 400V
cable 5x6mm ²	unrolled 22000W / 400V
Weight	
20m PROFLEX-07	approx. 13kg
25m PROFLEX-07	approx. 18kg
Measurements (WxHxD)	
CEAG	370x532x353

Safety precautions

Always read the label on the cable reel before use!

Cable reel 573-Ex is not suitable for zones 0, 20, 21 and 22. The temperature class and ignition protection classes specified on the equipment must be complied with. In order to avoid the non-permitted heating of cables, particularly while coiled, the maximum loads specified must not be exceeded. No modifications or alterations must be made to the cable reels. The cable reels must only be operated in undamaged condition. Note national safety and accident prevention regulations.

Item no.	Symbols Output	Description
860889		573-Ex plug 3x16A/230V, input 30m cable 3x2,5mm ² with CEE connector 3x16A/230V, output 1 CEE-Plug socket 3x16A/230V
860673		573-Ex plug 3x16A/230V, input 50m cable 3x2,5mm ² with CEE connector 3x16A/230V, output 1 CEE-Plug socket 3x16A/230V
860633		573-Ex CEAG, input 25m cable 3x2,5mm ² with CEE connector 3x16A/230V, output 2 CEE plug socket 3x16A/230V
860634		573-Ex CEAG, input 25m cable 5x2,5mm ² with CEE connector 5x16A/400V, output 1 CEE plug socket 3x16A/230V, 1 CEE plug socket 5x16A/400V
860635		573-Ex CEAG, input 20m cable 5x6mm ² with CEE connector 5x32A/400V, output 1 CEE plug socket 5x32A/400V
860674		573-Ex CEAG, Input 30m cable 5x2,5mm ² with CEE-plug 5x16A/400V, output 1 CEE-Plug socket 5x16A/400V

* The rated values are maximum values. The actual electrical values are determined by the installed electrical equipment, see nameplate.

Series 518



Plug connectors
from STAHL



Plug connectors
from CEAG

Product features

- EX solid rubber cable drum as per DIN 14680-A1
- Made from zinc-plated sheet steel with powder coating in RAL 5002 (blue) with solid rubber carrying handle
- Velcro strip for lateral fastening of the plug
- Rotating auxiliary drum
- Without slip rings and thermal overload protection
- Brass feet for low earth contact resistance and spark protection
- For explosion-risk areas Zone 1, Zone 2
- High mechanical stability
- Impact-resistant and ageing-resistant
- External, maintenance-free parking brake
- Resistant to chemical influences
- Resistant to oils and acids
- UV and weather resistant

Technical data 518-Ex STAHL

Labelling	Ex II 2 G, EEx de IIA T6
Explosion protection	EEx de IIA T6
Test report	PTB Ex 06-16168
EC type approval certificate	PTB03 ATEX 1186
Protection category	IP65
Sim. factor	1
Weight of 518 Ex 230V/16A	approx. 24kg
518 Ex 400V/16A	approx. 30kg
Measurements	512x380x310mm

Technical data 518-Ex CEAG

Labelling	Ex II 2 G, EEx de IIA T6
Explosion protection	EEx de IIA T6
Test report	PTB Ex 06-16168
EC type approval certificate	PTB03 ATEX 1186
Protection category	IP65
Sim. factor	1
Weight of 518 Ex 230V/16A	approx. 24kg
518 Ex 400V/16A	approx. 30kg
Measurements	554x380x310mm

Safety instructions

Always read the label on the cable reel before use!

Cable reel 518-Ex is not suitable for zones 0, 20, 21 and 22. The temperature class and ignition protection classes specified on the equipment must be complied with. In order to avoid the non-permitted heating of cables, particularly while coiled, the maximum loads specified must not be exceeded.

No modifications or alterations must be made to the cable reels. The cable reels must only be operated in undamaged condition. Also note national safety and accident prevention regulations.

Compliance with standards

The basic health and safety requirements are fulfilled via compliance of the cable reels with EN 60079-0, EN 60079-1, as well as EN 60079-7. The cable reels correspond with guideline 2014/34/EU of the European Parliament and Council: Equipment and protective systems for proper use in potentially explosive areas. The cable reels have been manufactured and checked according to the state of the art, in compliance with current manufacturing standards DIN EN 60309, DIN EN 61242 und DIN EN 61316.

Spare parts

No individual or spare parts are supplied for safety reasons. Professional repairs with recorded final checks must only be carried out at the manufacturer's.

Item no.	Symbols Output	Description
261750	 STAHL	518-Ex STAHL input 5m cable H07RN-F 3x2.5mm ² with Ex connector 3x16A/230V, Output 45m cable H07RN-F 3x2.5mm ² with Ex coupling 3x16A/230V
261751	 STAHL	518-Ex STAHL input 5m cable H07RN-F 5x2.5mm ² with Ex connector 5x16A/400V, Output 45m cable H07RN-F 5x2.5mm ² with Ex coupling 5x16A/400V
247636	 CEAG	518-Ex CEAG input 5m cable H07RN-F 3x2.5mm ² with Ex connector 3x16A/230V, Output 45m cable H07RN-F 3x2.5mm ² with Ex coupling 3x16A/230V
247886	 CEAG	518-Ex CEAG input 5m cable H07RN-F 5x2.5mm ² with Ex connector 5x16A/400V, Output 45m cable H07RN-F 5x2.5mm ² with Ex coupling 5x16A/400V

Explosion-proof luminaires

You will find our explosion-proof luminaires on pages 321 to 340.

Industry distributor CEAG



Product features

- Polyester casing material, fibreglass-reinforced
- Casing colour Black
- Plugs and flange sockets made of polyamide
- Trumpet gland M32

Technical data

Labelling according to 2014/34/EU	II 2 G / Ex e d IIC T6
EC type-examination certificate	PTB 02 ATEX 1035
Ignition protection type	EEx ed IIC T6
Protection type	IP66
Frequency	50/60 Hz
Rated voltage*	3-pole 16A, up to 500V 5-pole 16A, up to 400V
Rated current*	16A
Temperature range	-20°C to +40°C
Connecting lead	2m
Weight	4.2kg
Dimensions (W x H x D)	213 x 420 x 219mm

* The rated values are maximum values, the actual electrical values are determined by the built-in, electrical equipment, see the faceplate ratings.



Product features

- Polyester casing material, fibreglass-reinforced
- Casing colour Black
- Plugs and flange sockets made of polyamide
- Trumpet gland M32

Technical data

Labelling according to 2014/34/EU	II 2 G / Ex e d IIC T6
EC type-examination certificate	PTB 99 ATEX 1044
Ignition protection type	EEx ed IIC T6/T5
Protection type	IP66
Frequency	50/60 Hz
Rated voltage*	3-pole 16A, up to 500V 5-pole 16A, up to 400V
Rated current*	16A
Temperature range	-20°C to +40°C
Connecting lead	2m
Weight	10kg
Dimensions (W x H x D)	272 x 317 x 219mm

* The rated values are maximum values, the actual electrical values are determined by the built-in, electrical equipment, see the faceplate ratings.

Item no.	Symbols Output	Description
248282	 	Inlet 2m Connecting lead 5 x 2.5mm ² with CEE plug 5 x 16A/400V Outlet 1 CEE built-in socket 5 x 16A/400V, without fuse, 2 CEE built-in sockets 3 x 16A/230V, without plug

Item no.	Symbols Output	Description
248285	   	Inlet 2m Connecting lead 5 x 2.5mm ² with plug 5 x 16A/400V Outlet 2 CEE built-in sockets 5 x 16A/400V, without fuse, 2 CEE built-in sockets 3 x 16A/230V, without fuse

Further versions

- Casing in stainless steel
- 5m or 7m connecting lead
- Extended equipment possibilities



Plastic CEE plugs Ex for 200-250V/380-415V

Product features

- Excellent impact strength combined with high strength
- high thermal stability
- very good insulating properties
- high dielectric strength
- high abrasion resistance
- high resistance to weathering
- very good chemical resistance to a large number of different chemicals
- Temperature resistance from -25°C to + 80°C, short-term 1h +100°C
- Contacts made of a copper-zinc alloy with high electrical conductivity, high tensile strength, high corrosion resistance

CEE plugs from CEAG

Item no. 200-250V	Item no. 380-415V	Poles	Amps	Protection IP	EC type-examination certificate
240480		3	16	66	PTB 99 ATEX 1039
	240329	5	16	66	PTB 99 ATEX 1039
	240674	5	32	66	PTB 99 ATEX 1039

CEE coupling from CEAG

Item no. 200-250V	Item no. 380-415V	Poles	Amps	Protection IP	EC type-examination certificate
239692		3	16	66	PTB 99 ATEX 1039
	239615	5	16	66	PTB 99 ATEX 1039
	240675	5	32	66	PTB 99 ATEX 1039

CEE surface-mounted socket from CEAG

Item no. 200-250V	Item no. 380-415V	Poles	Amps	Protection IP	EC type-examination certificate
238165		3	16	66	PTB 99 ATEX 1039
267483		3	16	66	PTB 99 ATEX 1039
	241617	5	16	66	PTB 99 ATEX 1039
	248909	5	32	66	PTB 99 ATEX 1039

CEE built-in socket outlets from CEAG

Item no. 200-250V	Item no. 380-415V	Poles	Amps	Protection IP	EC type-examination certificate
239616		3	16	66	PTB 99 ATEX 1039
	241319	5	16	66	PTB 99 ATEX 1039
	239617	5	32	66	PTB 99 ATEX 1039

CEE plugs from STAHL

Item no. 200-250V	Item no. 380-415V	Poles	Amps	Protection IP	EC type-examination certificate
251069		3	16	66	PTB 03 ATEX 1227
	251115	5	16	66	PTB 03 ATEX 1227
	253079	5	32	66	PTB 03 ATEX 1227

CEE surface-mounted socket from STAHL

Item no. 200-250V	Item no. 380-415V	Poles	Amps	Protection IP	EC type-examination certificate
251118		3	16	66	PTB 04 ATEX 1060
	251120	5	16	66	PTB 04 ATEX 1060
	294039	5	32	66	PTB 04 ATEX 1060



IP66



IP66



IP66



IP66



IP66



IP66

EX-Extensions

with plug connections from CEAG and STAHL



Plug connections
CEAG

Plug connections
STAHL

Product features

- mounted CEE plug Ex
- mounted CEE coupling Ex

Application areas

- Zones 1, 2, 20 and 21

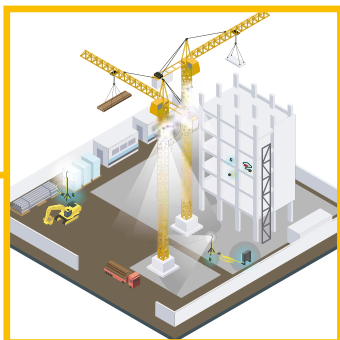
EX-Extensions						
Item no.	Description	Length in m	Wires number x cross section in mm ²	Protection category	Plug/Coupling	Make Plug/Coupling
322274	201636/37.EX/02,5/4325GG/C	2,5	3x2,5		CEE 3x16A/230V	CEAG
266536	201636/37.EX/03/4325GG/C	3	3x2,5		CEE 3x16A/230V	CEAG
270174	201636/37.EX/04/4325GG/C	4	3x2,5		CEE 3x16A/230V	CEAG
266546	201636/37.EX/08/4325GG/C	8	3x2,5		CEE 3x16A/230V	CEAG
251208	201636/37.EX/10/4325GG/C	10	3x2,5		CEE 3x16A/230V	CEAG
266547	201636/37.EX/15/4325GG/C	15	3x2,5		CEE 3x16A/230V	CEAG
251209	201636/37.EX/20/4325GG/C	20	3x2,5		CEE 3x16A/230V	CEAG
264445	201636/37.EX/30/4325GG/C	30	3x2,5		CEE 3x16A/230V	CEAG
262116	201636/37.EX/50/4325GG/C	50	3x2,5		CEE 3x16A/230V	CEAG
278670	301656/57.EX/02/4525GG/C	2	5x2,5		CEE 5x16A/400V	CEAG
133576	301656/57.EX/02,5/4525GG/C	2,5	5x2,5		CEE 5x16A/400V	CEAG
305361	301656/57.EX/05/4525H07/C	5	5x2,5		CEE 5x16A/400V	CEAG
134121	301656/57.EX/10/4525H07/C	10	5x2,5		CEE 5x16A/400V	CEAG
290835	301656/57.EX/20/4525GG/C	20	5x2,5		CEE 5x16A/400V	CEAG
282753	301656/57.EX/30/4525H07/C	30	5x2,5		CEE 5x16A/400V	CEAG
250760	201636/37.EX/25/4325GG/S	25	3x2,5		CEE 3x16A/230V	STAHL
248567	201636/37.EX/50/4325GG/S	50	3x2,5		CEE 3x16A/230V	STAHL
273179	303256/57.EX/50/4560GG/S	50	5x6		CEE 5x32A/400V	STAHL

Minimum order quantity for special designs according to customer requirements: 50 pieces

Other cross-sections and lengths on request.

WE ARE **EXPERTS** IN YOUR FIELD

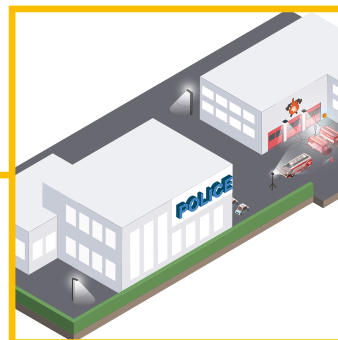
Ex-Products



Construction industry



Industrial sector



Safety equipment

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