Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Казахстан (772)734-952-31
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Россия (495)268-04-70
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

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Enclosure systems and accessories Klippon® Protect

Let's connect.

Weidmüller

Cable entries

Cable entries	Introduction	D.2
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Cable entries

Weidmüller offers a variety of add-on components for a multitude of purposes and applications in addition to its extensive Klippon® Protect range.

In addition to brass, plastic and stainless steel cable glands, there are also sealing plugs, pressure-equalising elements, adapters and relevant accessories – such as lock nuts, flat gaskets, flat washers and earthing rings – available.

To match the assembled enclosures, the cable glands meet the requirements of IP protection classes IP54 to IP69K and can be used as required in standard industrial applications, EMC applications or even explosive risk zones, plus they comply with the approvals required for this purpose.

The Ex-certified Klippon® cable glands also allow for the connection of cables and conductors with different reinforcements with and without lead sheathing, as well as the connection of steel wire and steel tape cables. They can withstand temperatures ranging from -60°C to +180°C.

Depending on the cable gland variants and application, the cable glands, sealing plugs, adaptors, pressure-equalising elements, and accessories are manufactured and certified according to the following standards:

- IEC/EN 62444 (Construction and design)
- IEC/EN 60529 (IP protection class testing)
- IEC/EN 60079-0 (General Ex requirements)
- IEC/EN 60079-1 (Ex d Ex standard)
- IEC/EN 60079-7 (Ex e Ex standard)
- IEC/EN 60079-11 (Ex i Ex standard)
- IEC/EN 60423 (Metric thread)
- DIN 40430 (PG and NPT threads)

The range of cable glands, sealing plugs and pressure-equalising elements is available in metric (M) and high-strength (PG) threads in sizes ranging from M12 to M75 and PG7 to PG48. When choosing cable glands and sealing plugs, please refer to the table with the sealing characteristics of the O-rings, flat gaskets and seal inserts. The O-Ring or flat gasket is always intended for sealing the connecting thread on an enclosure, for example, while the seal insert of each cable gland is intended for actually sealing and crushing the connecting cable.

You should always observe the maximum drill-hole diameter when installing a cable gland, sealing plug, adaptor, or pressure compensation element (e.g. onto the gland plate of an enclosure). These must not exceed the following specified maximum values / tolerances so that the protection degree of the whole enclosure can be guaranteed.
Please also refer to the instruction manual; deviating information is possible.

Through-hole information

M thread	Through-hole, in mm
M 12	12.2
M 16	16.2
M 20	20.2
M 25	25.2
M 32	32.2
M 40	40.2
M 50	50.2
M 63	63.2
M 75	75.2
PG thread	**Through-hole, in mm**
PG 7	12.4
PG 9	15.1
PG 11	18.5
PG 13.5	20.4
PG 16	22.5
PG 21	28.3
PG 29	37.4
PG 36	47.2
PG 42	54.2
PG 48	59.5

Overview of sealing materials for O-rings, flat gaskets as well as seal inserts

Abbreviation	Material	Trade name	Temperature range	Chemical resistance	Fire resistant	Shore	Free from halogens	UV resistance
TPE	Thermo-plastic elastomer	Santroprene	-40 °C to +130 °C	Hydrocarbons, oils, acids	UL94, HB	64	Yes	very good
CR	Chloroprene rubber	Neoprene	-40 °C to +130 °C	Mineral oils, greases, fuels	very good	40 - 90	No	very good
NBR	Nitrile rubber	Perbunan, Nitrile	-40 °C to +130 °C	Hydrocarbons, oils, acids, aliphatic solvents, greases, fuels	weak	40 - 90	No	good
EPDM	Ethylene-propylene-diene rubber	Keltan	-50 °C to +130 °C	Weather-, grease-, mineral oil-, chlorine- ,and ozone resistant, hydrocarbons	weak	20 - 90		very good
FPM	Fluoro-rubber	Viton	-25 °C to +200 °C	ozone, oxygen, mineral oils, synthetic hydraulic fluids, fuels, aromatics, many organic solvents and chemicals	weak	65 - 95		good

Note: The data refer only to the sealing material, not to the entire component.

Abbreviations – technical data

A, L	Length in mm
L1	Length of thread in mm
D	Diameter in mm
S	Thickness in mm
S1,S2	Depth in mm
SW, SW1, SW2	Distance across flats in mm
KB	Clamping range in mm
KB ZE	Clamping range strain relief in mm
Thread	External thread
SUHB	Shroud / Protective cap
DR	Tightening torque in Nm
HM	Cap nut / pressure screw
Qty.	Packing unit in pieces

Product designation

VG	Cable gland
VP	Sealing plugs
KDSU	Klippon® Double Seal Universal
KDSW	Klippon® Double Seal for SWA
KDSX	Klippon® Double Seal for SWB/STA
KSG	Klippon® Standard Gland
KUB	Klippon® Universal Barrier
KSPA	Klippon® Stopping Plug Type A
KSPMH	Klippon® Stopping Plug Mushroom
KSWN	Klippon® Sealing Washer Nylon
KSWF	Klippon® Sealing Washer Red Fibre
KSP	Klippon® Shroud PVC/Silicone
SKMU	Hexagon nut
DAE	Pressure compensation element
BD	Breather drain (compensation element)
SZS	Serrated Star Washers
ZE	Strain relief
EMV	Electromagnetic compatibility
EA	Earthing ring
SKS	Spiral kink protection
GWDR	Threaded sealing ring or IP washer

Glands and accessories

The tables below provide an overview of the Weidmüller cable glands and the recommended accessories.

Standard cable glands

Material/Type		Approvals					Thread sealing rings			Locknuts			
		IP class of protection		Ex	EMC	Armouring	CSM	CR	O-Ring	grey	black	brass	MS EMC
		without seal	with seal				GWDR PO	GWDR...NP		SKMU...K GR	SKMU...K SW	SKMU...MS	SKMU EMV...
Plastic													
	VG ... K68	IP68 / 5 bar								●			
	VG ... K68 SKS	IP68 / 5 bar								●			
Nickel-plated brass													
	VG ... MS68		IP54,IP66, IP68 / 5 bar, IP69k						included			●	
	VGM...MS68...BG		IP68						included			●	
	VG ... MS54-ZE	IP54										●	
	VG ... EMV-4		IP66, IP68 / 5 bar, IP69k		●				included				●
	VGM...EMC...SET		IP68		●				included				●
Stainless steel													
	VG...SS68		IP54,IP66, IP68 / 5 bar, IP69k						included			●	
	VGM...SS68...BG		IP68						included			●	

Cable glands HQ

Material/Type		Approvals					Thread sealing rings			Locknuts			
		IP class of protection		Ex	EMC	Armouring	CSM	CR	O-Ring	grey	black	brass	MS EMC
		without seal	with seal				GWDR PO	GWDR...NP		SKMU...K GR	SKMU...K SW	SKMU...MS	SKMU EMV...
Nickel-plated brass, Ex													
	VG ... K68 ...	IP65											
Brass Ex													
	VG ... MS68 ...	IP65											
	VG ... EMV68 ...	IP65			●								

Cable glands Ex

Material/Type		Approvals					Thread sealing rings			Locknuts			
		IP class of protection		Ex	EMC	Armouring	KSWN	CR	O-Ring	grey	black	brass	MS EMC
		without seal	with seal					GWDR...NP		SKMU...K GR	SKMU...K SW	SKMU...MS	SKMU EMV...
Nickel-plated brass, Ex													
	KDSU...BN/BS O NII		IP66, IP68 / 2.5 bar	Ex e/d		●			included			●	
	KUB...BS O NI *		IP66, IP68 / 10 bar	Ex e/d		●			included			●	
	KDSW...BN/BS O/L NI	IP54	IP54, IP66, IP68 / 2.5 bar	Ex e/d		●	optional					●	
	KDSX...BS O NI	IP54	IP54, IP66, IP68 / 2.5 bar	Ex e/d		●	optional					●	
	KSG...BN/BS O NI		IP66, IP68 / 2.5 bar	Ex e/d					included			●	
Plastic Ex													
	VG...EXI...7J		IP54, IP66, IP68 / 5 bar	Ex e					included		●		
	VG...EXE...7J		IP54, IP66, IP68 / 5 bar	Ex i					included		●		
Note:	* Available on request. Ex - Stainless steel glands on request												

Adaptor

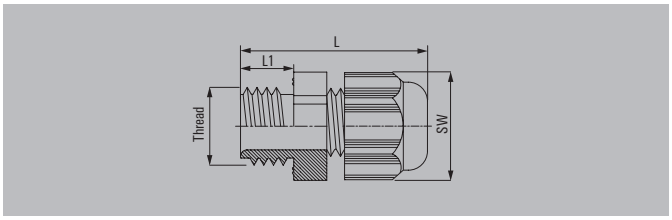
Material/Type		Approvals IP class of protection with seal	Approvals Ex	Thread sealing rings GWDR PO	Thread sealing rings CR GWDR...NP	Thread sealing rings O-Ring	Locknuts grey SKMU...K GR	Locknuts black SKMU...K SW	Locknuts brass SKMU...MS	Locknuts MS EMC SKMU EMV...
Plastic										
	DAE M12 PA	IP66, IP68, IP69K				included				
	DAE M12 PA long	IP66, IP68, IP69K				included		•		
Stainless steel										
	DAE M12 SS	IP66, IP68, IP69K				included			•	•
Brass Ex										
	KLIPPON BDX ... B	IP66	•			included				
Stainless steel Ex										
	KLIPPON BDX ... S	IP66	•			included				

Stopping plugs

Material/Type		Approvals IP class of protection without seal	Approvals IP class of protection with seal	Ex	Thread sealing rings GWDR PO	Thread sealing rings CR GWDR...NR	Thread sealing rings O-Ring	Locknuts grey SKMU...K GR	Locknuts black SKMU...K SW	Locknuts brass SKMU...MS	Locknuts MS EMC SKMU EMV...
Plastic											
	VP ... K54	IP54	IP65					•			
Nickel-plated brass											
	VP ... MS65		IP68				included			•	
Stainless steel											
	KSPMH...SSC		IP66, IP68	Ex e/d			included			•	
Plastic Ex											
	VP...Ex SW	IP54, IP66	IP66, IP68	Ex e		optional			•		
Nickel-plated brass, Ex											
	VP...Ex MS		IP54, IP64, IP68	Ex e/d			included			•	
Brass Ex											
	KSPMH...BSC		IP66, IP68	Ex e/d			included			•	

Cable glands – Plastic – IP68

Cable gland made of plastic with integrated strain relief for industrial applications where IP67 or IP68 protection is required. Tested and approved according to EN 62444 and UL514B.



Technical data

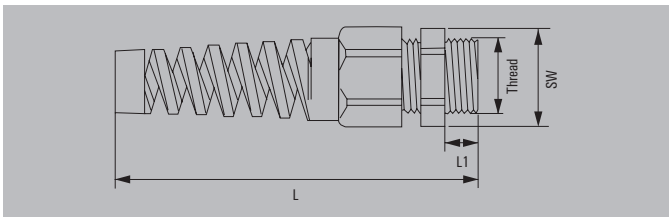
Material / Colour	Polyamide 6 / Light Grey / RAL 7035
Seal insert	CR
Temperature range	-40 °C...100 °C
Protection class	IP67, IP68 - 5 bar (30 min.)
Flammability rating	V-2
Note	Version with moulded sealing lip. Length L varies depending on the cable diameter used.

Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
metric						
VG M12-1/K68	M 12	3-6.5	30.5 / 8	15	100	**1772280000**
VG M16-1/K68	M 16	4-8	34.5 / 8	19	50	**1909860000**
VG M16 - K 68	M 16	5-10	40 / 10	22	50	**1772290000**
VG M20-1/K68	M 20	6-12	39.5 / 10	24	50	**1772300000**
VG M25-1/K68	M 25	11-17	43 / 8	29	50	**1909870000**
VG M25 - K 68	M 25	13-18	47 / 10	33	25	**1772310000**
VG M32-1/K68	M 32	15-21	52 / 10	36	20	**1909880000**
VG M32 - K 68	M 32	18-25	56 / 15	42	20	**1772320000**
VG M40-1/K68	M 40	19-28	57 / 10	46	10	**1909890000**
VG M40 - K 68	M 40	22-32	69.5 / 18	53	10	**1772330000**
VG M50 - K 68	M 50	30-38	71 / 18	60	10	**1772340000**
VG M63-1/K68	M 63	34-44	71 / 18	65	10	**1772350000**
PG						
VG 7-K68	PG 7	3-6.5	30 / 8	15	100	**1568970000**
VG 9-K68	PG 9	4-8	34.5 / 8	19	50	**1568980000**
VG 11-K68	PG 11	5-10	37 / 8	22	50	**1568990000**
VG 13.5-K68	PG 13.5	6-12	39 / 10	24	50	**1569000000**
VG 16-K68	PG 16	10-14	41 / 10	27	50	**1569010000**
VG 21-K68	PG 21	13-18	48 / 11	33	25	**1569020000**
VG 29-K68	PG 29	18-25	52 / 11	42	20	**1569030000**
VG 36-K68	PG 36	22-32	64.5 / 13	53	10	**1569040000**
VG 42-K68	PG 42	30-38	66.5 / 13	60	10	**1569050000**
VG 48-K68	PG 48	34-44	67.5 / 14	65	10	**1718770000**

Cable glands – Plastic – SKS

Cable gland made of plastic with spiral bending protection and integrated strain relief, specially suited for moving connections. It prevents cables from bending at acute angles.



Technical data

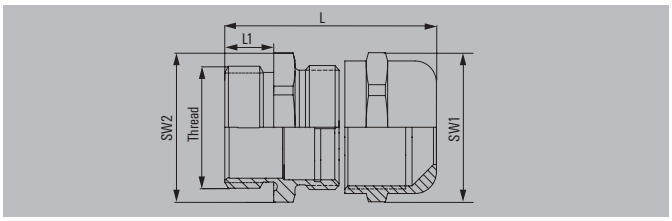
Material / Colour	Polyamide 6 / Light Grey / RAL 7035
Seal insert	CR
Temperature range	-20 °C...100 °C
Protection class	IP68 - 5 bar (30 min.)
Flammability rating	V-2
Note	Version with moulded sealing lip Length L varies depending on the cable diameter used.

Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
metric						
VG M12-K68 SKS	M 12	3-6.5	63.5 / 8	15	100	**1776700000**
VG M16-K68 SKS	M 16	5-10	94.5 / 15	22	50	**1776710000**
VG M20-K68 SKS 6-12	M 20	6-12	101.5 / 11	24	50	**1778860000**
VG M20-K68 SKS 10-14	M 20	10-14	116 / 15	27	25	**1776720000**
VG M25-K68 SKS	M 25	13-18	132.5 / 15	33	25	**1776730000**
PG						
VG 7-K68 SKS	PG 7	3-6.5	63 / 8	15	50	**1720470000**
VG 9-K68 SKS	PG 9	4-8	74 / 8	19	50	**1720480000**
VG 11-K68 SKS	PG 11	5-10	87 / 8	22	100	**1720490000**
VG 13.5-K68 SKS	PG 13.5	6-12	98 / 9	24	50	**1720500000**
VG 16-K68 SKS	PG 16	10-14	112 / 10	27	25	**1720510000**
VG 21-K68 SKS	PG 21	13-18	130 / 11	33	20	**1720520000**

Cable glands – Brass – IP68

Cable gland made of brass for industrial applications where IP68 or IP69K protection is required.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Clamp insert	Polyamide
Protection degree with GWDR	IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K
Note	Length "L" varies depending on the cable diameter used; IP69K protection applies to all metric cable glands; the following thread sizes are excluded from IP69K: PG29, PG36, PG42 and PG48.

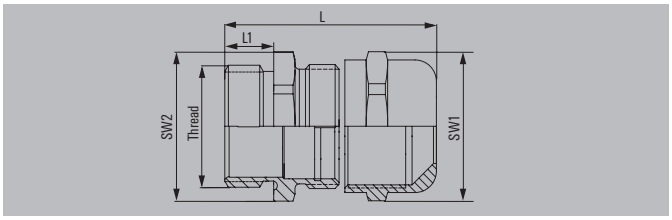
Ordering data

Type	Thread	KB	L/L1	SW1/SW2	Qty.	Order No.
metric						
VG M12 - MS 68	M 12	3-6.5	28 / 6	14 / 14	50	**1772200000**
VG M16 - MS 68	M 16	4-8	30 / 7	17 / 18	50	**1772210000**
VG M16-1/MS68	M 16	5-10	35.5 / 7	20 / 20	50	**1909910000**
VG M20 - MS 68	M 20	6-12	34.5 / 8	22 / 22	50	**1772220000**
VG M25 - MS 68	M 25	10-14	35.7 / 8	24 / 27	25	**1772230000**
VG M25-1/MS68	M 25	11-17	40.5 / 8	27 / 27	25	**1909920000**
VG M32 - MS 68	M 32	13-18	42 / 9	30 / 34	10	**1772240000**
VG M32-1/MS68	M 32	15-21	44 / 8	34 / 34	10	**1909930000**
VG M40 - MS 68	M 40	18-25	47 / 9	40 / 43	10	**1772250000**
VG M40-1/MS68	M 40	19-28	52.5 / 9	43 / 43	10	**1909940000**
VG M50 - MS 68	M 50	22-32	57 / 9	50 / 55	5	**1772260000**
VG M50-1/MS68	M 50	27-38	61 / 9	58 / 58	5	**1909950000**
VG M63 - MS 68	M 63	34-44	67 / 14	64 / 68	5	**1772270000**
PG (IP69K)						
VG 7-MS68	PG 7	3-6.5	28 / 6	14 / 14	50	**1569060000**
VG 9-MS68	PG 9	4-8	29.5 / 6	17 / 17	50	**1569070000**
VG 11-MS68	PG 11	5-10	32 / 6	20 / 20	50	**1569080000**
VG 13,5-MS68	PG 13.5	6-12	31 / 6.5	22 / 22	50	**1569090000**
VG 16-MS68	PG 16	10-14	34.5 / 6.5	24 / 24	25	**1569100000**
VG 21-MS68	PG 21	13-18	39.7 / 7.2	30 / 30	25	**1569110000**
PG (IP68)						
VG 29-MS68	PG 29	18-25	46.5 / 8	40 / 40	10	**1569120000**
VG 36-MS68	PG 36	22-32	57 / 9	50 / 50	5	**1569130000**
VG 42-MS68	PG 42	30-38	60.5 / 12	58 / 58	5	**1569140000**
VG 48-MS68	PG 48	34-44	69 / 14	64 / 64	5	**1718790000**

Cable glands – Brass – IP68

EN 45545

Cable gland made of brass with spherical sealing insert which squeezes the cable gently over a large area. This cable gland is suitable for railway applications; its sealing material conforms to the requirements of EN 45545.



Technical data

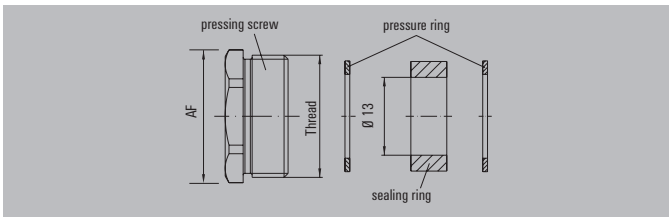
Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / T80s
Temperature range	-40 °C ... 130 °C
Protection class	IP68 - 15 bar
Note	

Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
VGM25-MS68 11-20 BG	M 25	11-20	36.5 / 7.5	30	50	**1193600000**
VGM32-MS68 15-25 BG	M 32	15-25	40 / 8	36	25	**1193610000**
VGM40-MS68 20-32 BG	M 40	20-32	43 / 8	45	10	**1193620000**
VGM40/1-MS68 20-32 BG	M 40	20-32	82 / 8	45	10	**1205890000**

Clamping screws – Brass – IP65

The special cable glands (clamping screws) are designed for use in HDC RockStar® base enclosures. The seal insert used contains several removable or separable inlets.



Technical data

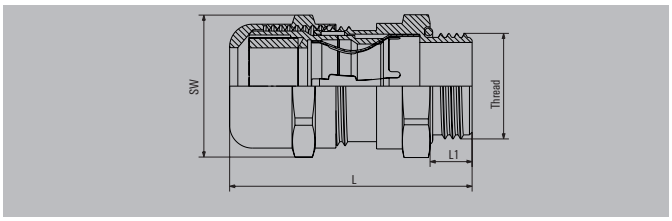
Clamping screw material	Brass, nickel-plated
Sealing ring material	SBR/NBR
Pressure ring material	Polyamide
Temperature range	-20 °C...60 °C
Protection class	IP65
Note	

Ordering data

Type	Thread	Inserts in mm	SW	Qty.	Order No.
metric					
VG H M20 MS	M 20	4 / 7 / 10 / 13	20	50	**1921720000**
VG H M25 MS	M 25	8.5 / 11.5 / 14.5 / 18	25	25	**1921740000**
VG H M32 MS	M 32	16 / 19 / 22 / 25	32	20	**1921760000**
VG H M40 MS	M 40	23 / 26 / 29 / 32	40	10	**1921770000**
PG					
KV 11-M	PG 11	7.5 / 10 / 12.5	10	10	**1656390000**
KV 13-M	PG 13	7.5 / 10 / 12.5	10	10	**1656400000**
KV 16-M	PG 16	7.5 / 10 / 12.5 / 15	10	10	**1656410000**
KV 21-M	PG 21	10 / 13 / 16 / 19	10	10	**1656420000**
KV 29-M	PG 29	18 / 21 / 24 / 27	10	10	**1656430000**
Note					

Cable glands – Brass – EMC–4

Cable gland made of brass with EMC contact system for the particularly time-saving installation of shielded cables. It is characterised by the following features: very low installation effort, vibration-resistant and patented active contact system.



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Protection class	IP66, IP68 - 5 bar (30 min.), IP69K
Clamp insert	Polyamide
Note	

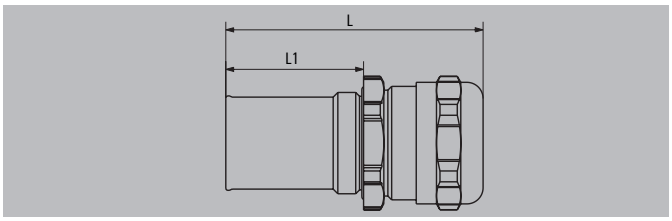
Ordering data

Type	Thread	KB	Shield Ø	L/L1	SW	Qty.	Order No.
VG M12 EMV-4 MS 3-6.5	M 12	3-6.5	2.00-5.00	34 / 6	14	50	**2435070000**
VG M16 EMV-4 MS 5-10	M 16	5-10	3.50-8.00	39 / 6	20	50	**2435140000**
VG M20 EMV-4 MS 6-12	M 20	6-12	4.50-10.00	38 / 6	22	50	**2435150000**
VG M20 EMV-4 MS 8-14	M 20	7.5-14	5.50-11.50	48 / 8	24	50	**2435160000**
VG M25 EMV-4 MS 10-18	M 25	10-18	7.00-14.00	51 / 8	30	25	**2435170000**
VG M32 EMV-4 MS 16-25	M 32	16-25	12.00-20.00	62 / 9	40	10	**2435180000**
VG M40 EMV-4 MS 22-32	M 40	22-32	18.00-27.00	69.5 / 9	50	5	**2435190000**
VG M50 EMV-4 MS 30-38	M 50	30-38	26.00-34.00	62 / 9	58	5	**2435200000**
VG M63 EMV-4 MS 34-44	M 63	34-44	30.00-40.00	73 / 14	68	5	**2435210000**

Cable glands – Brass – EMC SET

EN 45545

Cable gland made of brass for internal shield connection or potential equalisation; easy-to-use, permanent, secure shield connection. This cable gland is suitable for railway applications; its sealing material meets the requirements of EN 45545.



Technical data

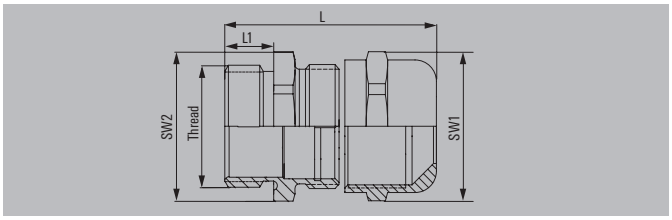
Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / T80s
Temperature range	-40 °C ... 130 °C
Protection class	IP68 - 15 bar
Note	

Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
VGM25-MS68 EMC 11-20SET	M 25	11-20	63.5 / 34	30	1	**1463720000**
VGM32-MS68 EMC 15-25SET	M 32	15-25	66.5 / 34	36	1	**1463730000**

Cable glands – Stainless steel – IP68

Cable gland made of stainless steel for standard industrial applications that require a high degree of protection (IP68 or IP69K). These cable glands – with their resistance to impact and sea water – are also suitable for use in applications under extreme environmental conditions.



Technical data

Material	Stainless steel 1.4305 (303)
O-Ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K
Note	

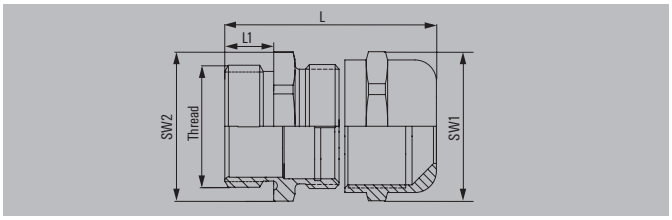
Ordering data

Type	Thread	KB	L/L1	SW1/SW2	Qty.	Order No.
metric						
VGM12-SS 68 KB 3-6.5	M 12	3-6.5	28 / 6	14 / 14	50	**1009840000**
VGM16-SS 68 KB 4-8	M 16	4-8	30 / 7	17 / 19	50	**1009850000**
VGM20-SS 68 KB 6-12	M 20	6-12	32 / 8	22 / 22	50	**1009860000**
VGM25-SS 68 KB 10-14	M 25	10-14	35.5 / 8	24 / 27	25	**1009870000**
VGM32-SS 68 KB 13-18	M 32	13-18	41.5 / 9	30 / 36	20	**1009880000**
VGM40-SS 68 KB 18-25	M 40	18-25	49.6 / 9	41 / 46	20	**1009890000**
VGM50-SS 68 KB 22-32	M 50	22-32	55 / 9	50 / 55	5	**1009900000**
VGM63-SS 68 KB 34-44	M 63	34-44	67 / 14	65 / 70	5	**1009910000**
PG						
VG 7-SS 68 KB 3-6.5	PG 7	3-6.5	28 / 6	14 / 14	50	**1009740000**
VG 9-SS 68 KB 4-8	PG 9	4-8	29 / 6	17 / 17	50	**1009750000**
VG 11-SS 68 KB 5-10	PG 11	5-10	31.5 / 6	22 / 22	50	**1009760000**
VG 16-SS 68 KB 10-14	PG 16	10-14	34 / 6.5	24 / 24	25	**1009780000**
VG 21-SS 68 KB 13-18	PG 21	13-18	39.7 / 7.2	30 / 30	25	**1009790000**
VG 29-SS 68 KB 18-25	PG 29	18-25	46.5 / 8	41 / 41	20	**1009800000**
VG 36-SS 68 KB 22-32	PG 36	22-32	55 / 9	50 / 50	15	**1009810000**

Cable gland – Stainless steel – IP68

EN 45545

Cable gland with spherical seal insert that squeezes the cable gently over a large area. This cable gland is suitable for railway applications; its sealing material meets the requirements of EN 45545.



Technical data

Material	Stainless steel 1.4305 (303)
O-Ring / Seal insert	Silicone / T80s
Temperature range	-40 °C ... 130 °C
Protection class	IP68 - 15 bar
Note	

Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
VGM25-SS68 11-20 BG	M 25	11-20	36.5 / 7.5	30	50	**1193570000**
VGM32-SS68 15-25 BG	M 32	15-25	40 / 8	36	25	**1193580000**
VGM40-SS68 20-32 BG	M 40	20-32	43 / 8	45	10	**1193590000**
VGM40/1-SS68 20-32 BG	M 40	20-32	82 / 8	45	10	**1205920000**

HQ cable glands

Cable gland especially for heavy-duty connectors of the HQ series, available in plastic, brass and as brass EMC version.

Technical data

Material	Polyamide 6
Seal insert	TPE
Temperature range	-40 °C ... 130 °C
Protection class	IP68
Note	

Ordering data

Type	Thread	KB	SW	Qty.	Order No.
Plastic					
VG 16 HQ K68 4-6.5	PG 16	4-6.5	27	1	**2715990000**
VG 16 HQ K68 6.5-9.5	PG 16	6.5-9.5	27	1	**1273890000**
VG 16 HQ K68 9-13	PG 16	9-13	27	1	**1016070000**
VG 16 HQ K68 11.5-15.5	PG 16	11.5-15.5	27	1	**1016080000**
brass					
VG 21 HQ MS68 9-13	PG 21	9-13	30	1	**1016090000**
VG 21 HQ MS68 11.5-15.5	PG 21	11.5-15.5	30	1	**1016100000**
VG 21 HQ MS68 14-18	PG 21	14-18	30	1	**1016110000**
EMC					
VG 21 HQ EMV68 11-15.5	PG 21	11-15.5	30	1	**1016120000**
VG 21 HQ EMV68 14-18	PG 21	14-18	30	1	**1016130000**
only for angled HQ base enclosure (order number 1003110000)					
VG16 HQ K68 9-12SH	PG 16	9-12	30	1	**1045530000**
VG16 HQ K68 11,5-15,5SH	PG 16	11.5-15.5	30	1	**1045540000**

Overview: Klippon® cable glands and selection tool

ATEX / IECEx certified cable glands

Cable Gland Type	Outer Elastomeric Seal	Inner Elastomeric Seal	Lead Option	Armour Clamp	Certification	IP Rating	Page No.
KDSU	YES	YES	NO	Universal	Ex d / Ex e	IP66, IP68	D.27
KDSW	YES	YES	YES	Steel wire	Ex d / Ex e	IP66, IP68	D.29
KDSX	YES	YES	NO	Braided	Ex d / Ex e	IP66, IP68	D.32
KUB	YES	Compound	NO	Universal	Ex d	IP66, IP68	On request
KSG	YES	NO	NO	No	Ex d / Ex e	IP66, IP68	D.33

General

Health & Safety

When Weidmüller cable glands and the accessories are used and installed as prescribed within the data sheet provided, they will not cause any danger or hazard to the health or safety of persons, animals or property. The products should be installed by suitably trained/skilled personnel and in full accordance with the relevant legislative regulations and the accepted code of practice for the industry concerned.

Warning

Weidmüller cable glands and accessories should not be used within any application other than those specified for each product, unless Weidmüller issue a statement in writing that the product is suitable for the specified application. For further information on each product, we refer you to the specific Assembly Instructions and General Arrangement drawings, which are available on request. Weidmueller takes no responsibility for any damage, unjury or other consequential loss caused where the glands are not installed or used according to our Assembly Instructions.

Installation in hazardous area applications

If cable glands and accessories are installed in hazardous area applications, international and national standards of the Explosion Protection have to be considered.

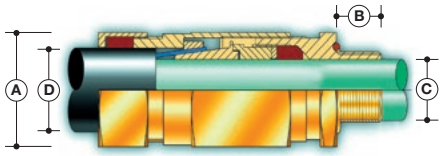
The KDSU type glands provide a universal armour clamp for steel wire, steel tape, screened or braided cables. An electrical bond between the cable armour and the gland is ensured. The gland can also be used to terminate un-armoured cables. In addition, the gland is fitted with two separate seals to seal the outer and inner cable insulation.
When choosing the gland with a neoprene sealing a temperature range from -35 °C to +90 °C will be achieved. Whereas the gland with silicone sealing ensures a temperature range from -60 °C to +180 °C.
With both sealing materials an IP rating of IP68 to 25 metres (30 min. at 2.5 bar) is maintained. The KDSU is approved for explosion protection type of pressure-resistant encapsulation Ex d and increased safety Ex e.

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KDSU	M20	B	S	0	SC	1	G16

Meaning

[Type] = Gland type (KDSU)
[a] = Entry thread (M20-M75)
[b] = Material (B = brass)
[c] = Seal material (S = Silicone, N = Neoprene)
[d] = Continuity for lead sheath (L = yes, 0 = no)
[e] = Plating (SC = self-coloured, NI = Nickel)
[f] = Cable outer sheath (1 = Reduced, 2 = Standard)
[ggg] = Gland size (G16-G75)



Note Refer to page D.22 Selection Guide Klippon® Cable Glands to determine the suitable order number

Dimensions

Gland Size [ggg]	Entry thread [a]	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range: Cable Inner Sheath [C] Min	Cable Inner Sheath [C] Max	Cable Outer Sheath [D] Standard [f] = 2 Min	Cable Outer Sheath [D] Standard [f] = 2 Max	Cable Outer Sheath [D] Reduced [f] = 1 Min	Cable Outer Sheath [D] Reduced [f] = 1 Max	Armour Acceptance Range	Shroud Size
G16	M20	16	28.0	78.0	3.4	8.4	9.0	13.5	6.7	10.3	0.15 - 1.25	L24
G20S	M20	16	28.0	78.0	7.2	11.7	11.5	16.0	9.4	12.5	0.15 - 1.25	L24
G20	M20	16	33.0	78.0	9.4	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30
G25	M25	16	41.4	90.0	13.5	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38
G32	M32	16	50.6	105.0	19.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46
G40	M40	16	60.5	113.0	23.0	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55
G50S	M50	16	71.5	125.0	28.1	38.2	39.4	46.7	34.8	42.4	0.30 - 2.50	EL65
G50	M50	16	71.5	125.0	33.1	44.1	45.7	53.2	41.1	48.5	0.30 - 2.50	EL65
G63S	M63	19	88.0	125.0	39.2	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80
G63	M63	19	88.0	125.0	46.7	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80
G75S	M75	19	99.0	131.0	52.1	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90
G75	M75	19	99.0	131.0	58.0	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90

Dimensions in mm

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KDSU glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.

Klippon® KDSW Cable Glands

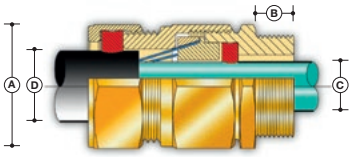
The KDSW glands provide an armour clamp for steel wire, steel tape and lead sheathed cables. An electrical bond between the cable armour and the gland is ensured. In addition, the gland is fitted with two separate sealings to seal the outer and inner cable insulation.
When choosing the gland with a neoprene sealing a temperature range from -35 °C to +90 °C will be achieved, whereas the gland with silicone sealing ensures a temperature range from -60 °C to +180 °C.
With both sealing materials an IP rating of IP66 and IP68 to 25 metres (30 min at 2.5 bar) is maintained. The KDSW gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KDSW	M20	B	S	L	SC	1	G16

Meaning

[Type] = Gland type (KDSW)
[a] = Entry thread (M20-M75)
[b] = Material (B = brass)
[c] = Seal material (S = Silicone, N = Neoprene)
[d] = Continuity for lead sheath (L = yes, O = no)
[e] = Plating (SC = self-coloured, NI = Nickel)
[f] = Cable outer sheath (1 = Reduced, 2 = Standard)
[ggg] = Gland size (G16-G75)



Note Refer to page D.22 Selection Guide Klippon® Cable Glands to determine the suitable order number

Dimensions

Gland Size [ggg]	Entry thread [a]	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range: Cable Inner Sheath [C] Min	Cable Inner Sheath [C] Max	Cable Outer Sheath [D] Standard [f] = 2 Min	Cable Outer Sheath [D] Standard [f] = 2 Max	Cable Outer Sheath [D] Reduced [f] = 1 Min	Cable Outer Sheath [D] Reduced [f] = 1 Max	Armour Acceptance Range	Shroud Size
G16	M20	16	26.5	58.0	4.0	8.4	8.4	13.5	4.9	10.0	0.90	L24
G20S	M20	16	26.5	58.0	8.0	11.7	11.5	16.0	9.4	12.5	0.90 - 1.25	L24
G20	M20	16	33.0	58.0	6.7*	14.0	15.5	21.1	12.0	17.6	0.90 - 1.25	L30
G25	M25	16	41.4	58.0	13.0	20.0	20.3	27.4	16.8	23.9	1.25 - 1.60	L38
G32	M32	16	50.6	65.0	19.0	26.3	26.7	34.0	23.2	30.5	1.60 - 2.00	L46
G40	M40	16	60.5	72.0	25.0	32.2	33.0	40.6	28.6	36.2	1.60 - 2.00	L55
G50S	M50	16	71.5	73.0	31.5	38.2	39.4	46.7	34.8	42.4	2.00 - 2.50	L65
G50	M50	16	71.5	73.0	36.5	44.1	45.7	53.2	41.1	48.5	2.00 - 2.50	L65
G63S	M63	19	88.0	76.0	42.5	50.1	52.1	59.5	47.5	54.8	2.50	L80
G63	M63	19	88.0	76.0	49.5	56.0	58.4	65.8	53.8	61.2	2.50	L80
G75S	M75	19	99.0	82.0	54.5	62.0	64.8	72.2	60.2	68.0	2.50	L90
G75	M75	19	99.0	82.0	60.5	68.0	71.1	78.0	66.5	73.4	2.5	L90

Dimensions in mm

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KDSW glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.
- * KDSW gland size G20 with silicone seal , the silicone inner seal only seals to a minimum of 9,3 mm and NOT 6.7 mm.

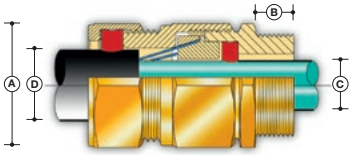
The KDSX glands provide an armour clamp for braided cables. An electrical bond between the cable armour and the gland is ensured. In addition, the gland is fitted with two separate sealings to seal the outer and inner cable insulation.
The gland maintains a temperature range from -60 °C to +180 °C. With both sealing materials an IP rating of IP66 and IP68 to 25 metres (30 min at 2.5 bar) is maintained. The KDSX gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KDSX	M20	B	S	0	SC	1	G16

Meaning

[Type] = Gland type (KDSX)
[a] = Entry thread (M20-M75)
[b] = Material (B = brass)
[c] = Seal material (S = Silicone)
[d] = Continuity for lead sheath (L = yes, 0 = no)
[e] = Plating (SC = self-coloured, NI = Nickel)
[f] = Cable outer sheath (1 = Reduced, 2 = Standard)
[ggg] = Gland size (G16-G75)



Note Refer to page D.22 Selection Guide Klippon® Cable Glands to determine the suitable order number

Dimensions

Gland Size [ggg]	Entry thread [a]	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range: Cable Inner Sheath [C] Min	Cable Inner Sheath [C] Max	Cable Outer Sheath [D] Standard [f] = 2 Min	Cable Outer Sheath [D] Standard [f] = 2 Max	Cable Outer Sheath [D] Reduced [f] = 1 Min	Cable Outer Sheath [D] Reduced [f] = 1 Max	Armour Acceptance Range	Shroud Size
G16	M20	16	26.5	58.0	4.0	8.4	8.4	13.5	4.9	10.0	0.15 - 0.35	L24
G20S	M20	16	26.5	58.0	8.0	11.7	11.5	16.0	9.4	12.5	0.15 - 0.35	L24
G20	M20	16	33.0	58.0	6.7*	14.0	15.5	21.1	12.0	17.6	0.15 - 0.50	L30
G25	M25	16	41.4	58.0	13.0	20.0	20.3	27.4	16.8	23.9	0.15 - 0.50	L38
G32	M32	16	50.6	65.0	19.0	26.3	26.7	34.0	23.2	30.5	0.15 - 0.55	L46
G40	M40	16	60.5	72.0	25.0	32.2	33.0	40.6	28.6	36.2	0.20 - 0.60	L55
G50S	M50	16	71.5	73.0	31.5	38.2	39.4	46.7	34.8	42.4	0.20 - 0.60	L65
G50	M50	16	71.5	73.0	36.5	44.1	45.7	53.2	41.1	48.5	0.30 - 0.80	L65
G63S	M63	19	88.0	76.0	42.5	50.1	52.1	59.5	47.5	54.8	0.30 - 0.80	L80
G63	M63	19	88.0	76.0	49.5	56.0	58.4	65.8	53.8	61.2	0.30 - 0.80	L80
G75S	M75	19	99.0	82.0	54.5	62.0	64.8	72.2	60.2	68.0	0.30 - 1.00	L90
G75	M75	19	99.0	82.0	60.5	68.0	71.1	78.0	66.5	73.4	0.30 - 1.00	L90

Dimensions in mm

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KDSX glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.
- * KDSX gland size G20 with silicone seal , the silicone inner seal only seals to a minimum of 9,3 mm and NOT 6.7 mm.

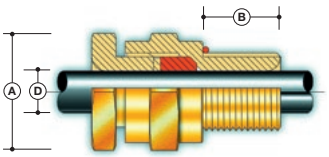
The KSG gland is designed to terminate un-armoured cables. When choosing the gland with a neoprene sealing a temperature range from -35 °C to +90 °C will be achieved, whereas the gland with silicone sealing ensures a temperature range from -60 °C to +180 °C. With both sealing materials an IP rating of IP66 and IP68 to 25 metres (30 min. at 2.5 bar) is maintained. The KSG type gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KSG	M20	B	S	O	SC	2	G16

Meaning

[Type] = Gland type (KSG)
[a] = Entry thread (M20-M90)
[b] = Material (B = brass)
[c] = Seal material (S = Silicone, N = Neoprene)
[d] = Continuity for lead sheath (L = yes, O = no)
[e] = Plating (SC = self-coloured, NI = Nickel)
[f] = Cable outer sheath (2 = Standard)
[ggg] = Gland size (G16-G90)



Note Refer to page D.22 Selection Guide Klippon® Cable Glands to determine the suitable order number

Dimensions

Gland Size [ggg]	Entry thread [a]	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range Cable Outer Sheath [D] Standard [f] = 2 Min	Max	Shroud Size
G16	M20	16	28.0	33.0	4.0	8.4	L24
G20S	M20	16	28.0	33.0	7.2	11.7	L24
G20	M20	16	33.0	33.0	9.6	14.0	L30
G25	M25	16	41.4	33.0	13.5	20.0	L38
G32	M32	16	50.6	33.0	19.5	26.3	L46
G40	M40	16	60.5	37.0	23.0	32.2	L55
G50S	M50	16	71.5	37.0	28.2	38.2	L65
G50	M50	16	71.5	37.0	33.2	44.1	L65
G63S	M63	19	88.0	37.0	39.3	50.1	L80
G63	M63	19	88.0	37.0	46.7	56.0	L80
G75S	M75	19	99.0	37.0	52.3	62.0	L90
G75	M75	19	99.0	37.0	58.1	69.0	L90

Dimensions in mm

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KSG glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.

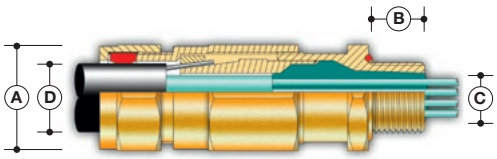
The KUB gland provide an armour clamp for steel tape, steel wire and braided cables. An electrical bond between the cable armour and the gland is ensured. The gland can also be used to terminate unarmoured cables. Additionally, the gland provides a single pull resistant seal on the outer sheath of any cable. After clamping the cable armour onto the cone, the cable has to be filled with the provided compound to seal the free spaces between the single conductors.
The gland maintains a temperature range from -60 °C to +135 °C. When filled, the gland fulfills an IP rating of IP68 to 100 metres (30 Min. at 10 bar). The KUB gland is only suitable for pressure-resistant Ex d encapsulation, and is available on request.

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example article description	KUB	M20	B	S	0	SC	1	G16

Meaning

[Type] = Gland type (KUB)
[a] = Entry thread (M20-M75)
[b] = Material (B = brass)
[c] = Seal material (S = Silicone)
[d] = Continuity for lead sheath (L = yes, 0 = no)
[e] = Plating (SC = self-coloured, NI = Nickel)
[f] = Cable outer sheath (1 = Reduced, 2 = Standard)
[ggg] = Gland size (G16-G75)



Note Refer to page D.22 Selection Guide Klippon® Cable Glands to determine the suitable order number

Dimensions

Gland Size	Entry thread	Entry thread Length	Max Outer Diameter	Max Length	Gland Seal Range: Cable Inner Sheath [C]			Gland Seal Range: Cable Outer Sheath [D]				Armour Acceptance Range	Shroud Size
								Standard [f] = 2		Reduced [f] = 1			
[ggg]	[a]	[B]	[A]		X	Y	Z	Min	Max	Min	Max		
G16	M20	16	28.0	72.0	7	9.0	11.7	9.0	13.5	6.7	10.3	0.15 - 1.25	L24
G20S	M20	16	28.0	72.0	8	10.4	11.7	11.5	16.0	9.4	12.5	0.15 - 1.25	L24
G20	M20	16	33.0	73.0	14	12.5	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30
G25	M25	16	41.4	83.0	25	17.8	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38
G32	M32	16	50.6	103.0	50	23.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46
G40	M40	16	60.5	105.0	80	28.8	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55
G50S	M50	16	71.5	115.0	100	34.2	38.2	39.4	46.7	34.8	42.4	0.30 - 2.50	EL65
G50	M50	16	71.5	115.0	100	39.4	44.1	45.7	53.2	41.1	48.5	0.30 - 2.50	EL65
G63S	M63	19	88.0	115.0	120	44.8	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80
G63	M63	19	88.0	115.0	120	50.0	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80
G75S	M75	19	99.0	122.0	140	55.4	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90
G75	M75	19	99.0	122.0	140	60.8	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90

Dimensions in mm

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- X = Maximum numbers of cores
- Y = Maximum over cores
- Z = Maximum inner sheath
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KUB glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.

Selection Guide Klippon® Cable Glands

Purpose: Generation of the article description

By selecting the suitable cable gland different factors have to be considered, such as
- The environment of the application
- The conditions inside the enclosure
- The construction of the cable

By using the Selection Guide Klippon® Cable Glands the article description will be generated following the step by step process to create the 7 character order key. From this the order number can be identified.

The order key consists out of the following attributes:

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description	KDSU	M20	B	S	0	SC	1	G16

Meaning

[Type]	=	Gland type (KDSU, KDSW, KDSX, KSG, KUB)
[a]	=	Entry thread (M20-M75)
[b]	=	Material (B = brass)
[c]	=	Seal material (S=Silicone, N=Neoprene)
[d]	=	Continuity for lead sheath (L = yes, 0 = no)
[e]	=	Plating (SC = self-coloured, NI = nickel-plated
[f]	=	Cable outer sheath (1 = Reduced, 2 = Standard)
[ggg]	=	Gland size (G16-G75)

Application example

Within an Ex d application on an Off-Shore platform a suitable cable gland for the termination into an enclosure is required.
Following details about the application are given:

- The enclosure will be used for the control of a motor circuit breaker
- The enclosure has a volume of 1.3 dm^3 and is installed outdoor.
- The application is in the field, a place in which an explosive atmosphere is likely to occur in normal operation, occasionally (Zone 1)
- The surrounding atmosphere of the enclosure consists Ethylene (gas group IIB)
- The enclosure operates in a temperature range of -40 °C bis +45 °C
- The armour of the cable is unknown, no lead sheathed cable
- The cable outer sheath diameter is 10 mm
- The cable inner sheath diameter is 8 mm

Based on the information in the above shown example case the article description will be determined on the following pages.

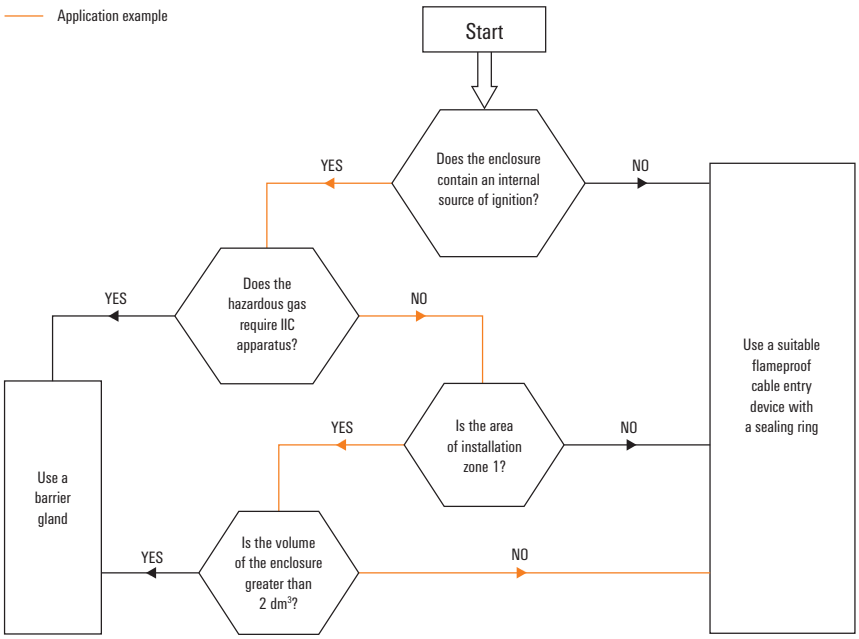
1. Selection of the cable gland type [type] and continuity for lead sheath [d]

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description								

1a) Selection of the cable gland type in regard to the ignition protection type

[Type]	Ignition Protecion Type
KDSU	Ex d / Ex e
KDSW	Ex d / Ex e
KDSX	Ex d / Ex e
KSG	Ex d / Ex e
KUB	Ex d

Because it is an Ex d application all cable gland types (marked in blue) can come into consideration.
For Ex d applications the following questionnaire according to the IEC 60079-14 standard has to be passed to find out if a barrier gland ([Type]=KUB) or if a cable gland with a sealing ring ([Type]=KDSU,KDSW,KDSX) has to be used.



By passing this questionnaire with the given information of the example case the orange marked way has to be followed and the result is that a cable gland with sealing ring has to be used. Consequently the blue marked cable gland types below can come into consideration.

Gland type	Type of sealing
KDSU	Sealing ring
KDSW	Sealing ring
KDSX	Sealing ring
KSG	Sealing ring
KUB	Compound

1b) Selection of the cable gland type in regard to the continuity for lead sheath

[Type]	[d]	Continuity for lead sheath
KDSU	0	No
KDSW	L / 0	Yes
KDSX	0	No
KSG	0	No
KUB	0	No

In the example case a cable without lead sheath is to be terminated, therefore the option to clamp a lead sheathed cable is not needed.
Consequently is

[d] = 0

All four gland types marked in blue can be used.

1c) Selection of the cable gland type in regard to the type of armour

[Type]	Armour
KDSU	Universal
KDSW	Steel wire, steel tape
KDSX	Braided
KSG	No armour
KUB	Universal

Because the type of armour of the cable is unknown, the cable gland type KDSU has to be selected.
Consequently is

[Type] = KDSU

The generated information has to be filled into the order key below:

Order key	**[Type]**	[a]	[b]	[c]	**[d]**	[e]	[f]	[ggg]
Example Article Description	**KDSU**				**0**			

2. Selection of the material [b], the sealing material [c] and the plating [e] of the cable gland

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description	KDSU				O			

2a) Selection of the material [b]

All cable gland types are made from brass "b". Other materials can also be provided upon request.
Consequently is
[b] = B

2b) Selection of the sealing material [c] based on the required temperature range

The cable glands can be ordered with either a neoprene seal "N" or a silicone seal "S".
Glands with a neoprene seal can be used in a temperature range from -35 °C to +90 °C, whereas glands with silicone seal maintain a temperature range from -60 °C to +180 °C. (KUB glands are certified to a temperature of -60 °C to +135 °C).

[Type]	[c]	Seal material
KDSU	N,S	Neoprene, Silicone
KDSW	N,S	Neoprene (with continuity for lead sheath), Silicone
KDSX	S	Silicone
KSG	N,S	Neoprene, Silicone
KUB	N	Silicone (-60 °C to +135 °C)

Because the enclosure in the example case operates in a temperature range of -40 °C bis +45 °C, a cable gland with a silicone seal has to be used.
Consequently is
[c] = „S" (Silicone)

2c) Selection of the plating [e]

All cable glands can be provided either with nickel plated surface "NI" or with self-coloured surface "SC".

In the example case the enclosure is used outdoor, therefore it can come into contact with water in form of rain, so that a cable gland with nickel plated surface as protection against corrosion and wear has to be selected. Consequently is [e] = „NI"

The generated information has to be filled into the order key below:

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description	KDSU		B	S	O	NI		

3. Selection of the entry thread [a], the cable outer sheath variant [f] and the gland size [ggg]

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Example Article Description	KDSU		B	S	O	NI		

The suitable gland size [ggg] will be selected based on the inner and outer sheath diameters of the cable. Thereby the entry thread size [a] and the cable outer sheath variant [f] result.

In the example case the following diameters are given:

Cable Outer Sheath: 10 mm (By looking into the below shown dimensions chart of the KDSU the orange marked clamping ranges (Cable Outer Sheath [D]) can be selected).
Cable Inner Sheath: 8 mm (By looking into the below shown dimensions chart of the KDSU the orange marked clamping ranges (Cable Inner Sheath [C]) can be selected).

Dimensions

Gland Size	Entry thread	Entry thread Length	Max Outer Diameter	Max Length	Gland Seal Range						Armour Acceptance Range	Shroud Size
					Cable Inner Sheath [C]		Cable Outer Sheath [D]					
							Standard [f]=2		Reduced [f]=1			
[ggg]		[B]	[A]		Min	Max	Min	Max	Min	Max		
G16	M20	16	28.0	78.0	3.4	8.4	9.0	13.5	6.7	10.3	0.15 - 1.25	L24
G20S	M20	16	28.0	78.0	7.2	11.7	11.5	16.0	9.4	12.5	0.15 - 1.25	L24
G20	M20	16	33.0	78.0	9.4	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30
G25	M25	16	41.4	90.0	13.5	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38
G32	M32	16	50.6	105.0	19.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46
G40	M40	16	60.5	113.0	23.0	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55
G50S	M50	16	71.5	125.0	28.1	38.2	39.4	46.7	34.8	42.4	0.30 - 2.50	EL65
G50	M50	16	71.5	125.0	33.1	44.1	45.7	53.2	41.1	48.5	0.30 - 2.50	EL65
G63S	M63	19	88.0	125.0	39.2	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80
G63	M63	19	88.0	125.0	46.7	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80
G75S	M75	19	99.0	131.0	52.1	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90
G75	M75	19	99.0	131.0	58.0	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90
		All dimensions in mm										

By the selection of the inner [C] resp. outer [D] clamping range, a range should be used where the diameter of the cable outer and inner sheath are as near as possible to the average of the Min/Max Values. In doing so, the reduced cable outer sheath with the gland size G20S and the entry thread of M20 has to be selected.

Consequently is
[f]=1
[ggg]=G20S
[a]=M20

The generated information has to be filled into the order key below:

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]
Article description	KDSU	M20	B	S	0	NI	1	G20S

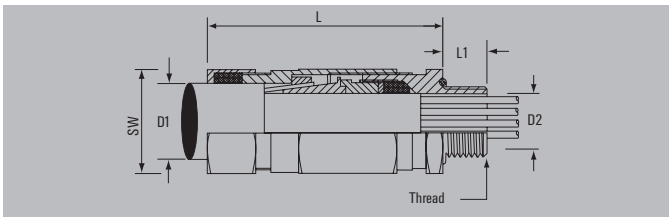
Resulting from the complete article description the relating order number (brown marked) can be determined.

Extract from table KDSU "Nickel-plated brass gland with silicone sealing" on page D.28

Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[ggg]	Qty.
0930001221	KDSU M20 BS 0 NI 1 G16	KDSU	M20	B	S	0	NI	1	G16	20
0930001222	KDSU M20 BS 0 NI 2 G16	KDSU	M20	B	S	0	NI	2	G16	20
0930011223	KDSU M20 BS 0 NI 1 G20S	KDSU	M20	B	S	0	NI	1	G20S	20
0930011224	KDSU M20 BS 0 NI 2 G20S	KDSU	M20	B	S	0	NI	2	G20S	20
0930021221	KDSU M20 BS 0 NI 1 G20	KDSU	M20	B	S	0	NI	1	G20	20
...	...	...	...	...	...	...	...	...	...	...

Klippon® cable glands – Nickel–plated Brass – Ex e, Ex d, IP68 for armoured and non-armoured cables

All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / CR
Temperature range	-35 °C...90 °C
Degree of protection	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1285X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594

Ordering data

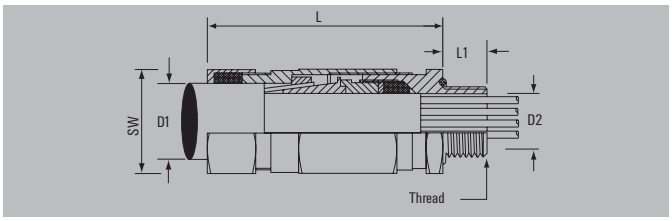
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSU M20 BN O NI 1 G16	M 20	6.7-10.3	3.40-8.40	0.1-1.25	78 / 16	24	L24	20	**1083280000**
KDSU M20 BN O NI 2 G16	M 20	9-13.5	3.40-8.40	0.1-1.25	78 / 16	24	L24	20	**1911380000**
KDSU M20 BN O NI 1 G20S	M 20	9.4-12.5	7.20-11.70	0.1-1.25	78 / 16	24	L24	20	**1083290000**
KDSU M20 BN O NI 2 G20S	M 20	11.5-16	7.20-11.70	0.1-1.25	78 / 16	24	L24	20	**1911390000**
KDSU M20 BN O NI 1 G20	M 20	12-17.6	9.40-14.00	0.1-1.25	78 / 16	30	EL30	20	**1083320000**
KDSU M20 BN O NI 2 G20	M 20	15.5-21.1	9.40-14.00	0.1-1.25	78 / 16	30	EL30	20	**1911400000**
KDSU M25 BN O NI 1 G25	M 25	16.8-23.9	13.50-20.00	0.1-1.6	90 / 16	38	EL38	20	**1083330000**
KDSU M25 BN O NI 2 G25	M 25	20.3-27.4	13.50-20.00	0.1-1.6	90 / 16	38	EL38	20	**1911420000**
KDSU M32 BN O NI 1 G32	M 32	23.2-30.5	19.50-26.30	0.1-2	105 / 16	46	EL46	10	**1083340000**
KDSU M32 BN O NI 2 G32	M 32	26.7-34	19.50-26.30	0.1-2	105 / 16	46	EL46	10	**1911430000**
KDSU M40 BN O NI 1 G40	M 40	28.6-36.2	23.00-32.20	0.1-2	113 / 16	55	EL55	10	**1083350000**
KDSU M40 BN O NI 2 G40	M 40	33-40.6	23.00-32.20	0.1-2	113 / 16	55	EL55	10	**1911440000**
KDSU M50 BN O NI 1 G50	M 50	41.1-48.5	33.10-44.10	0.1-2.5	125 / 16	65	EL65	1	**1083370000**
KDSU M50 BN O NI 2 G50	M 50	45.7-53.2	33.10-44.10	0.1-2.5	125 / 16	65	EL65	1	**1911460000**
KDSU M50 BN O NI 1 G50S	M 50	34.8-42.4	28.10-38.20	0.1-2.5	125 / 16	65	EL65	1	**1083360000**
KDSU M50 BN O NI 2 G50S	M 50	39.4-46.7	28.10-38.20	0.1-2.5	125 / 16	65	EL65	1	**1911450000**
KDSU M63 BN O NI 1 G63S	M 63	47.5-54.8	39.20-50.10	0.1-2.5	125 / 19	80	EL80	1	**1083380000**
KDSU M63 BN O NI 2 G63S	M 63	52.1-59.5	39.20-50.10	0.1-2.5	125 / 19	80	EL80	1	**1911480000**
KDSU M63 BN O NI 1 G63	M 63	53.8-61.2	46.70-56.00	0.1-2.5	125 / 16	80	EL80	1	**1083390000**
KDSU M63 BN O NI 2 G63	M 63	58.4-65.8	46.70-56.00	0.1-2.5	125 / 19	80	EL80	1	**1911490000**
KDSU M75 BN O NI 1 G75S	M 75	60.2-68	52.10-62.00	0.1-2.5	131 / 19	90	EL90	1	**1083400000**
KDSU M75 BN O NI 2 G75S	M 75	64.8-72.2	52.10-62.00	0.1-2.5	131 / 19	90	EL90	1	**1083410000**
KDSU M75 BN O NI 1 G75	M 75	66.5-73.4	58.00-68.00	0.1-2.5	131 / 19	90	EL90	1	**1083420000**
KDSU M75 BN O NI 2 G75	M 75	71.1-78	58.00-68.00	0.1-2.5	131 / 19	90	EL90	1	**1083430000**

Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands – Nickel–plated Brass – Ex e, Ex d, IP68 for armoured and non-armoured cables

All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	Silicone / Silicone
Temperature range	-60 °C...180 °C
Degree of protection	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1285X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594

Ordering data

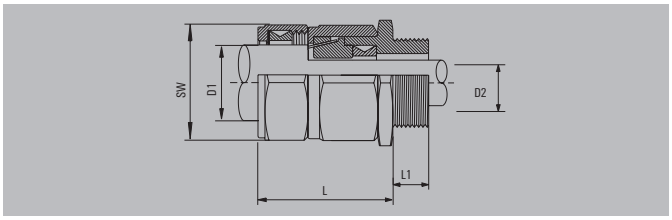
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSU M20 BS O NI 1 G16	M 20	6.7-10.3	3.40-8.40	0.1-1.25	78 / 16	24	L24	20	**0930001221**
KDSU M20 BS O NI 2 G16	M 20	9-13.5	3.40-8.40	0.1-1.25	78 / 16	24	L24	20	**0930001222**
KDSU M20 BS O NI 1 G20	M 20	12-17.6	9.40-14.00	0.1-1.25	78 / 16	30	EL30	20	**0930021221**
KDSU M20 BS O NI 2 G20	M 20	15.5-21.1	9.40-14.00	0.1-1.25	78 / 16	30	EL30	20	**0930021222**
KDSU M20 BS O NI 1 G20S	M 20	9.4-12.5	7.20-11.70	0.1-1.25	78 / 16	24	L24	20	**0930011223**
KDSU M20 BS O NI 2 G20S	M 20	11.5-16	7.20-11.70	0.1-1.25	78 / 16	24	L24	20	**0930011224**
KDSU M25 BS O NI 1 G25	M 25	16.8-23.9	13.50-20.00	0.1-1.6	90 / 16	38	EL38	20	**0930031221**
KDSU M25 BS O NI 2 G25	M 25	20.3-27.4	13.50-20.00	0.1-1.6	90 / 16	38	EL38	1	**0930031222**
KDSU M32 BS O NI 1 G32	M 32	23.2-30.5	19.50-26.30	0.1-2	105 / 16	46	EL46	10	**0930041221**
KDSU M32 BS O NI 2 G32	M 32	26.7-34	19.50-26.30	0.1-2	105 / 16	46	EL46	10	**0930041222**
KDSU M40 BS O NI 1 G40	M 40	28.6-36.2	23.00-32.20	0.1-2	113 / 16	55	EL55	10	**1136990000**
KDSU M40 BS O NI 2 G40	M 40	33-40.6	23.00-32.20	0.1-2	113 / 16	55	EL55	10	**0930051222**
KDSU M50 BS O NI 1 G50	M 50	41.1-48.5	33.10-44.10	0.1-2.5	125 / 16	65	EL65	1	**1137010000**
KDSU M50 BS O NI 2 G50	M 50	45.7-53.2	33.10-44.10	0.1-2.5	125 / 16	65	EL65	1	**1137020000**
KDSU M50 BS O NI 1 G50S	M 50	34.8-42.4	28.10-38.20	0.1-2.5	125 / 16	65	EL65	1	**1137000000**
KDSU M50 BS O NI 2 G50S	M 50	39.4-46.7	28.10-38.20	0.1-2.5	125 / 16	65	EL65	1	**0930061224**
KDSU M63 BS O NI 1 G63	M 63	53.8-61.2	46.70-56.00	0.1-2.5	125 / 19	80	EL80	1	**1137050000**
KDSU M63 BS O NI 2 G63	M 63	58.4-65.8	46.70-56.00	0.1-2.5	125 / 19	80	EL80	1	**0930091222**
KDSU M63 BS O NI 1 G63S	M 63	47.5-54.8	39.20-50.10	0.1-2.5	125 / 19	80	EL80	1	**1137030000**
KDSU M63 BS O NI 2 G63S	M 63	52.1-59.5	39.20-50.10	0.1-2.5	125 / 19	80	EL80	1	**1137040000**
KDSU M75 BS O NI 1 G75	M 75	66.5-73.4	58.00-68.00	0.1-2.5	131 / 19	90	EL90	1	**1137080000**
KDSU M75 BS O NI 2 G75	M 75	71.1-78	58.00-68.00	0.1-2.5	131 / 19	90	EL90	1	**1137090000**
KDSU M75 BS O NI 1 G75S	M 75	60.2-68	52.10-62.00	0.1-2.5	131 / 19	90	EL90	1	**1137060000**
KDSU M75 BS O NI 2 G75S	M 75	64.8-72.2	52.10-62.00	0.1-2.5	131 / 19	90	EL90	1	**1137070000**

Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands – Nickel–plated Brass – Ex e, Ex d, IP66 / IP68 for armoured cables

Cable gland for cables and lines with single-wire armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	CR
Temperature range	-35 °C...90 °C
Protection class	IP54
Protection degree with GWDR	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1286X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594

Ordering data

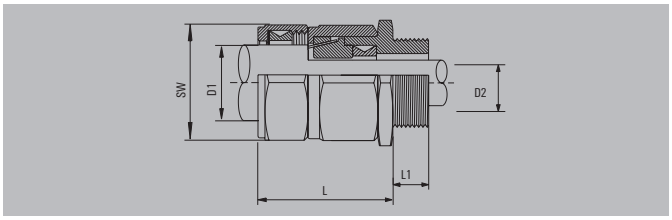
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSW M20 BN 0 NI 1 G16	M 20	4.9-10.3	3.50-8.40	0.9	58 / 16	24	L24	20	**1075030000**
KDSW M20 BN 0 NI 2 G16	M 20	8.4-13.5	3.50-8.40	0.9	58 / 16	24	L24	20	**1075040000**
KDSW M20 BN 0 NI 1 G20	M 20	12-17.6	6.70-14.00	0.9-1.25	58 / 16	30	L30	20	**1075070000**
KDSW M20 BN 0 NI 2 G20	M 20	15.5-21.1	6.70-14.00	0.9-1.25	58 / 16	30	L30	20	**1075080000**
KDSW M20 BN 0 NI 1 G20S	M 20	9.4-12.5	8.00-11.70	0.9-1.25	58 / 16	30	L24	20	**1075050000**
KDSW M20 BN 0 NI 2 G20S	M 20	11.5-16	8.00-11.70	0.9-1.25	58 / 16	24	L24	20	**1075060000**
KDSW M25 BN 0 NI 1 G25	M 25	16.8-23.9	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	**1075090000**
KDSW M25 BN 0 NI 2 G25	M 25	20.3-27.4	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	**1075110000**
KDSW M32 BN 0 NI 1 G32	M 32	23.2-30.5	19.00-26.30	1.6-2	65 / 16	46	L46	10	**1075120000**
KDSW M32 BN 0 NI 2 G32	M 32	26.7-34	19.00-26.30	1.6-2	65 / 16	46	L46	10	**1075130000**
KDSW M40 BN 0 NI 1 G40	M 40	28.6-36.2	25.00-32.20	1.6-2	72 / 16	55	L55	10	**1075140000**
KDSW M40 BN 0 NI 2 G40	M 40	33-40.6	25.00-32.20	1.6-2	72 / 16	55	L55	10	**1075150000**
KDSW M50 BN 0 NI 1 G50	M 50	41.1-48.5	36.50-44.10	2-2.5	73 / 16	65	L65	1	**1075180000**
KDSW M50 BN 0 NI 2 G50	M 50	45.7-53.2	36.50-44.10	2-2.5	73 / 16	65	L65	1	**1075190000**
KDSW M50 BN 0 NI 1 G50S	M 50	34.8-42.4	31.50-38.20	2-2.5	73 / 16	65	L65	1	**1075160000**
KDSW M50 BN 0 NI 2 G50S	M 50	39.4-46.7	31.50-38.20	2-2.5	73 / 16	65	L65	1	**1075170000**
KDSW M63 BN 0 NI 1 G63	M 63	53.8-61.2	49.50-56.00	2.5	76 / 19	80	L80	1	**1075230000**
KDSW M63 BN 0 NI 2 G63	M 63	58.4-65.8	49.50-56.00	2.5	76 / 19	80	L80	1	**1075240000**
KDSW M63 BN 0 NI 1 G63S	M 63	47.5-54.8	42.50-50.10	2.5	76 / 19	80	L80	1	**1075210000**
KDSW M63 BN 0 NI 2 G63S	M 63	52.1-59.5	42.50-50.10	2.5	76 / 19	80	L80	1	**1075220000**
KDSW M75 BN 0 NI 1 G75	M 75	66.5-73.4	60.50-68.00	2.5	82 / 19	90	L90	1	**1075270000**
KDSW M75 BN 0 NI 2 G75	M 75	71.1-78	60.50-68.00	2.5	82 / 19	90	L90	1	**1075280000**
KDSW M75 BN 0 NI 1 G75S	M 75	60.2-68	54.50-62.00	2.5	82 / 19	90	L90	1	**1075250000**
KDSW M75 BN 0 NI 2 G75S	M 75	64.8-72.2	54.50-62.00	2.5	82 / 19	90	L90	1	**1075260000**

Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands – Nickel–plated Brass – Ex e, Ex d, IP66 / IP68 for armoured cables

Cable gland for cables and lines with single-wire armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	Silicone
Temperature range	-60 °C...180 °C
Protection class	IP54
Protection degree with GWDR	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1286X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	

Ordering data

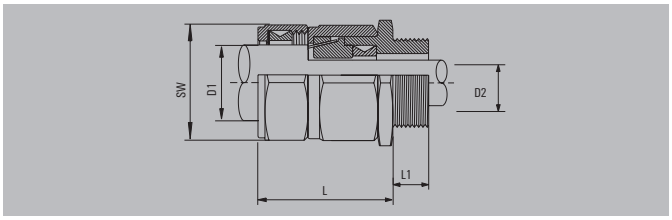
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSW M20 BS O NI 1 G16	M 20	4.9-10.3	3.50-8.40	0.9	58 / 16	24	L24	20	**1136410000**
KDSW M20 BS O NI 2 G16	M 20	8.4-13.5	3.50-8.40	0.9	58 / 16	24	L24	20	**1136420000**
KDSW M20 BS O NI 1 G20	M 20	12-17.6	9.30-14.00	0.9-1.25	58 / 16	30	L30	20	**1136450000**
KDSW M20 BS O NI 2 G20	M 20	15.5-21.1	9.30-14.00	0.9-1.25	58 / 16	30	L30	20	**1136460000**
KDSW M20 BS O NI 1 G20S	M 20	9.4-12.5	8.00-11.70	0.9-1.25	58 / 16	30	L24	20	**1136430000**
KDSW M20 BS O NI 2 G20S	M 20	11.5-16	8.00-11.70	0.9-1.25	58 / 16	24	L24	20	**1136440000**
KDSW M25 BS O NI 1 G25	M 25	16.8-23.9	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	**1136470000**
KDSW M25 BS O NI 2 G25	M 25	20.3-27.4	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	**1136480000**
KDSW M32 BS O NI 1 G32	M 32	23.2-30.5	19.00-26.30	1.6-2	65 / 16	46	L46	10	**1136490000**
KDSW M32 BS O NI 2 G32	M 32	26.7-34	19.00-26.30	1.6-2	65 / 16	46	L46	10	**1136510000**
KDSW M40 BS O NI 1 G40	M 40	28.6-36.2	25.00-32.20	1.6-2	72 / 16	55	L55	10	**1136520000**
KDSW M40 BS O NI 2 G40	M 40	33-40.6	25.00-32.20	1.6-2	72 / 16	55	L55	10	**1136530000**
KDSW M50 BS O NI 1 G50	M 50	41.1-48.5	36.50-44.10	2-2.5	73 / 16	65	L65	1	**1136560000**
KDSW M50 BS O NI 2 G50	M 50	45.7-53.2	36.50-44.10	2-2.5	73 / 16	65	L65	1	**1136570000**
KDSW M50 BS O NI 1 G50S	M 50	34.8-42.4	31.50-38.20	2-2.5	73 / 16	65	L65	1	**1136540000**
KDSW M50 BS O NI 2 G50S	M 50	39.4-46.7	31.50-38.20	2-2.5	73 / 16	65	L65	1	**1136550000**
KDSW M63 BS O NI 1 G63	M 63	53.8-61.2	49.50-56.00	2.5	76 / 19	80	L80	1	**1136600000**
KDSW M63 BS O NI 2 G63	M 63	58.4-65.8	49.50-56.00	2.5	76 / 19	80	L80	1	**1136610000**
KDSW M63 BS O NI 1 G63S	M 63	47.5-54.8	42.50-50.10	2.5	76 / 19	80	L80	1	**1136580000**
KDSW M63 BS O NI 2 G63S	M 63	52.1-59.5	42.50-50.10	2.5	76 / 19	80	L80	1	**1136590000**
KDSW M75 BS O NI 1 G75	M 75	66.5-73.4	60.50-68.00	2.5	82 / 19	90	L90	1	**1136640000**
KDSW M75 BS O NI 2 G75	M 75	71.1-78	60.50-68.00	2.5	82 / 19	90	L90	1	**1136650000**
KDSW M75 BS O NI 1 G75S	M 75	60.2-68	54.50-62.00	2.5	82 / 19	90	L90	1	**1136620000**
KDSW M75 BS O NI 2 G75S	M 75	64.8-72.2	54.50-62.00	2.5	82 / 19	90	L90	1	**1136630000**

Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands – Nickel–plated Brass – Ex e, Ex d, IP66 / IP68 for armoured cables

Cable gland for cables and lines with single-wire armouring and lead-sheath armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	CR
Temperature range	-35 °C...90 °C
Protection class	IP54
Protection degree with GWDR	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Lead sheath armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1286X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594

Ordering data

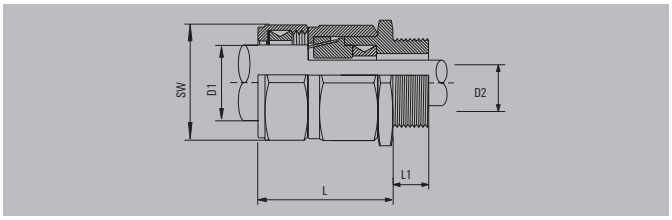
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSW M20 BN L NI 1 G16	M 20	4.9-10.3	3.50-8.40	0.9	58 / 16	24	L24	20	**1074660000**
KDSW M20 BN L NI 2 G16	M 20	8.4-13.5	3.50-8.40	0.9	58 / 16	24	L24	20	**1074690000**
KDSW M20 BN L NI 1 G20	M 20	12-17.6	6.70-14.00	0.9-1.25	58 / 16	30	L30	20	**1074760000**
KDSW M20 BN L NI 2 G20	M 20	15.5-21.1	6.70-14.00	0.9-1.25	58 / 16	30	L30	20	**1074780000**
KDSW M20 BN L NI 1 G20S	M 20	9.4-12.5	8.00-11.70	0.9-1.25	58 / 16	24	L24	20	**1074720000**
KDSW M20 BN L NI 2 G20S	M 20	11.5-16	8.00-11.70	0.9-1.25	58 / 16	24	L24	20	**1074740000**
KDSW M25 BN L NI 1 G25	M 25	16.8-23.9	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	**1074810000**
KDSW M25 BN L NI 2 G25	M 25	20.3-27.4	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	**1074830000**
KDSW M32 BN L NI 1 G32	M 32	23.2-30.5	19.00-26.30	1.6-2	65 / 16	46	L46	10	**1074850000**
KDSW M32 BN L NI 2 G32	M 32	26.7-34	19.00-26.30	1.6-2	65 / 16	46	L46	10	**1074860000**
KDSW M40 BN L NI 1 G40	M 40	28.6-36.2	25.00-32.20	1.6-2	72 / 16	55	L55	10	**1074870000**
KDSW M40 BN L NI 2 G40	M 40	33-40.6	25.00-32.20	1.6-2	72 / 16	55	L55	10	**1074880000**
KDSW M50 BN L NI 1 G50	M 50	41.4-48.5	36.50-44.10	2-2.5	73 / 16	65	L65	1	**1074920000**
KDSW M50 BN L NI 2 G50	M 50	45.7-53.2	36.50-44.10	2-2.5	73 / 16	65	L65	1	**1074930000**
KDSW M50 BN L NI 1 G50S	M 50	34.8-42.4	31.50-38.20	2-2.5	73 / 16	65	L65	1	**1074890000**
KDSW M50 BN L NI 2 G50S	M 50	39.4-46.7	31.50-38.20	2-2.5	73 / 16	65	L65	1	**1074910000**
KDSW M63 BN L NI 1 G63	M 63	53.8-61.2	49.50-56.00	2.5	76 / 19	80	L80	1	**1074960000**
KDSW M63 BN L NI 2 G63	M 63	58.4-65.8	49.50-56.00	2.5	76 / 19	80	L80	1	**1074970000**
KDSW M63 BN L NI 1 G63S	M 63	47.5-54.8	42.50-50.10	2.5	76 / 19	80	L80	1	**1074940000**
KDSW M63 BN L NI 2 G63S	M 63	52.1-59.5	42.50-50.10	2.5	76 / 19	80	L80	1	**1074950000**
KDSW M75 BN L NI 1 G75	M 75	66.5-73.4	60.50-68.00	2.5	82 / 19	90	L90	1	**1075010000**
KDSW M75 BN L NI 2 G75	M 75	71.1-78	60.50-68.00	2.5	82 / 19	90	L90	1	**1075020000**
KDSW M75 BN L NI 1 G75S	M 75	60.2-68	54.50-62.00	2.5	82 / 19	90	L90	1	**1074980000**
KDSW M75 BN L NI 2 G75S	M 75	64.8-72.2	54.50-62.00	2.5	82 / 19	90	L90	1	**1074990000**

Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands – Nickel–plated Brass – Ex e, Ex d, IP66 / IP68 for armoured cables

Cable gland for cables and lines with braided armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	Silicone
Temperature range	-60 °C...180 °C
Protection class	IP54
Protection degree with GWDR	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Braided armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1286X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594

Ordering data

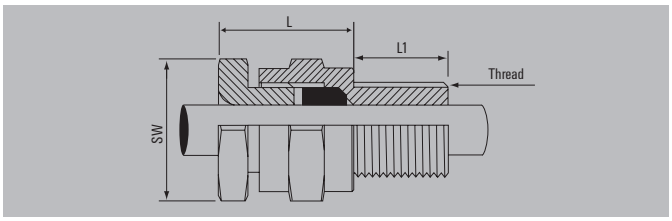
Type	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSX M20 BS O NI 1 G16	M 20	4.9-10.3	3.50-8.40	0.15-0.35	58 / 16	24	L24	20	**1135910000**
KDSX M20 BS O NI 2 G16	M 20	8.4-13.5	3.50-8.40	0.15-0.35	58 / 16	24	L24	20	**1135920000**
KDSX M20 BS O NI 1 G20	M 20	12-17.6	9.30-14.00	0.15-0.5	58 / 16	30	L30	20	**1135950000**
KDSX M20 BS O NI 2 G20	M 20	15.5-21.1	9.30-14.00	0.15-0.5	58 / 16	30	L30	20	**1135960000**
KDSX M20 BS O NI 1 G20S	M 20	9.4-12.5	8.00-11.70	0.15-0.35	58 / 16	24	L24	20	**1135930000**
KDSX M20 BS O NI 2 G20S	M 20	11.5-16	8.00-11.70	0.15-0.35	58 / 16	24	L24	20	**1135940000**
KDSX M25 BS O NI 1 G25	M 25	16.8-23.9	13.00-20.00	0.15-0.5	58 / 16	38	L38	20	**1135970000**
KDSX M25 BS O NI 2 G25	M 25	20.3-27.4	13.00-20.00	0.15-0.5	58 / 16	38	L38	20	**1135980000**
KDSX M32 BS O NI 1 G32	M 32	23.2-30.5	19.00-26.30	0.15-0.55	65 / 16	46	L46	10	**1135990000**
KDSX M32 BS O NI 2 G32	M 32	26.7-34	19.00-26.30	0.15-0.55	65 / 16	46	L46	10	**1136000000**
KDSX M40 BS O NI 1 G40	M 40	28.6-36.2	25.00-32.20	0.2-0.6	72 / 16	55	L55	10	**1136010000**
KDSX M40 BS O NI 2 G40	M 40	33-40.6	25.00-32.20	0.2-0.6	72 / 16	55	L55	10	**1136020000**
KDSX M50 BS O NI 1 G50	M 50	41.1-48.5	36.50-44.10	0.5-0.8	73 / 16	65	L65	1	**1136050000**
KDSX M50 BS O NI 2 G50	M 50	45.7-53.2	36.50-44.10	0.5-0.8	73 / 16	65	L65	1	**1136060000**
KDSX M50 BS O NI 1 G50S	M 50	34.8-42.4	31.50-38.20	0.2-0.6	73 / 16	65	L65	1	**1136030000**
KDSX M50 BS O NI 2 G50S	M 50	39.4-46.7	31.50-38.20	0.2-0.6	73 / 16	65	L65	1	**1136040000**
KDSX M63 BS O NI 1 G63	M 63	53.8-61.2	49.50-56.00	0.5-0.8	76 / 19	80	L80	1	**1136090000**
KDSX M63 BS O NI 2 G63	M 63	58.4-65.8	49.50-56.00	0.5-0.8	76 / 19	80	L80	1	**1136110000**
KDSX M63 BS O NI 1 G63S	M 63	47.5-54.8	42.50-50.10	0.5-0.8	76 / 19	80	L80	1	**1136070000**
KDSX M63 BS O NI 2 G63S	M 63	52.1-59.5	42.50-50.10	0.5-0.8	76 / 19	80	L80	1	**1136080000**
KDSX M75 BS O NI 1 G75	M 75	66.5-73.4	60.50-68.00	0.5-1	82 / 19	90	L90	1	**1136140000**
KDSX M75 BS O NI 2 G75	M 75	71.1-78	60.50-68.00	0.5-1	82 / 19	90	L90	1	**1136150000**
KDSX M75 BS O NI 1 G75S	M 75	60.2-68	54.50-62.00	0.5-1	82 / 19	90	L90	1	**1136120000**
KDSX M75 BS O NI 2 G75S	M 75	64.8-72.2	54.50-62.00	0.5-1	82 / 19	90	L90	1	**1136130000**

Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Klippon® cable glands – Nickel–plated Brass – Ex e, Ex d, IP66 / IP68 for non-armoured cables

Cable gland exclusively for non-armoured cables and lines.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	CR / CR
Temperature range	-35 °C...90 °C
Degree of protection	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Marking	ATEX: II 2GD, Ex db IIC Gb, Ex ta IIIC Da and/or II 2 GD, Ex eb IIC Gb, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1287X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	

Ordering data

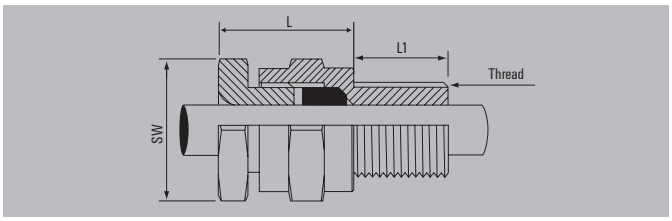
Type	Thread	KB	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass							
KSG M20 BN 0 NI 2 G16	M 20	4-8.4	33 / 16	25	L24	20	**1911510000**
KSG M20 BN 0 NI 2 G20S	M 20	7.2-11.7	33 / 16	25	L24	20	**1911540000**
KSG M20 BN 0 NI 2 G20	M 20	9.6-14	33 / 16	30	L30	20	**1911560000**
KSG M25 BN 0 NI 2 G25	M 25	13.5-20	33 / 16	38	L38	20	**1911570000**
KSG M32 BN 0 NI 2 G32	M 32	19.5-26.3	33 / 16	46	L46	10	**1911580000**
KSG M40 BN 0 NI 2 G40	M 40	23-32.2	37 / 16	55	L55	10	**1911590000**
KSG M50 BN 0 NI 2 G50S	M 50	28.1-38.2	37 / 16	65	L65	1	**1911600000**
KSG M50 BN 0 NI 2 G50	M 50	33.1-44.1	37 / 16	65	L65	1	**1911610000**
KSG M63 BN 0 NI 2 G63S	M 63	39.2-50.1	37 / 19	80	L80	1	**1911620000**
KSG M63 BN 0 NI 2 G63	M 63	46.7-56	37 / 19	80	L80	1	**1911630000**
KSG M75 BN 0 NI 2 G75	M 75	58-68	37 / 19	90	L90	1	**1075360000**
KSG M75 BN 0 NI 2 G75S	M 75	52.1-62	37 / 19	90	L90	1	**1075350000**

Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.
-

Klippon® cable glands – Brass – Ex e, Ex d, IP66 / IP68 for non-armoured cables

Cable gland exclusively for non-armoured cables and lines.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	Silicone / Silicone
Temperature range	-60 °C...180 °C
Degree of protection	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Marking	ATEX: II 2GD, Ex db IIC Gb, Ex ta IIIC Da and/or II 2 GD, Ex eb IIC Gb, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1287X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	

Ordering data

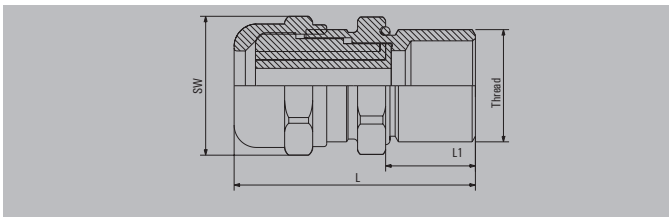
Type	Thread	KB	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass							
KSG M20 BS O NI 2 G16	M 20	4-8.4	33 / 16	25	L24	20	**0930481222**
KSG M20 BS O NI 2 G20	M 20	9.6-14	33 / 16	25	L30	20	**0930501222**
KSG M20 BS O NI 2 G20S	M 20	7.2-11.7	33 / 16	25	L24	20	**0930491224**
KSG M25 BS O NI 2 G25	M 25	13.5-20	33 / 16	38	L38	20	**0930511222**
KSG M32 BS O NI 2 G32	M 32	19.5-26.3	33 / 16	46	L46	10	**0930521222**
KSG M40 BS O NI 2 G40	M 40	23-32.2	37 / 16	55	L55	10	**0930531222**
KSG M50 BS O NI 2 G50	M 50	33.1-44.1	37 / 16	65	L65	1	**1136670000**
KSG M50 BS O NI 2 G50S	M 50	28.1-38.2	37 / 16	65	L65	1	**1136660000**
KSG M63 BS O NI 2 G63	M 63	46.7-56	37 / 19	80	L80	1	**1136690000**
KSG M63 BS O NI 2 G63S	M 63	39.2-50.1	37 / 19	80	L80	1	**1136680000**
KSG M75 BS O NI 2 G75	M 75	58-68	37 / 19	90	L90	1	**1136710000**
KSG M75 BS O NI 2 G75S	M 75	52.1-62	37 / 19	90	L90	1	**1136700000**

Note

- All cable glands have a thread pitch of 1.5 mm.
- In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.
- If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
- The connection cable must be laid securely and inflexibly to rule out tensile stress.

Ex cable glands – Brass – Nickel plated – Ex e, Ex d, IP 66 / IP 68 for non-armoured cables

Cable gland made from brass exclusively for non-armoured cables and lines. This Ex e/d approved screw connection has multiply divisible seal inserts (onion rings) to cover the greatest possible clamping range.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C...100 °C
Degree of protection	IP66, IP68
Marking	Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db IP66/68
Note	

Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
VG M16 EXE MS	M 16	3-12	46 / 16	22	50	**1460040000**
VG M20 EXE MS	M 20	3-12	43 / 16	22	50	**1460050000**
VG M25 EXE MS	M 25	10-18	45.5 / 16	28	20	**1460070000**
VG M32 EXE MS	M 32	14-24	49 / 16	35	20	**1460080000**
VG M40 EXE MS	M 40	22-32	59 / 18	45	10	**1460090000**
VG M50 EXE MS	M 50	35-44	61.5 / 18	64	5	**1460100000**
VG M63 EXE MS	M 63	46-56	69.5 / 18	80	5	**1460110000**
Note						

Safeguard processes in potentially explosive atmospheres

Ex cable glands for safe devices as per EN 60079-0:2012 + A11 : 2013

The environmental conditions in many industry and explosion-proof applications pose a real challenge for the system components. Dust, vibrations, moisture and extreme temperatures all have an impact on the installed devices and the cable glands must also be able to withstand these stresses too.

Ex cable glands from Weidmüller guarantee process reliability in demanding environments. They are designed such that they can be used universally in any enclosure series. They are also just as easy to use in both high and low-temperature environments.

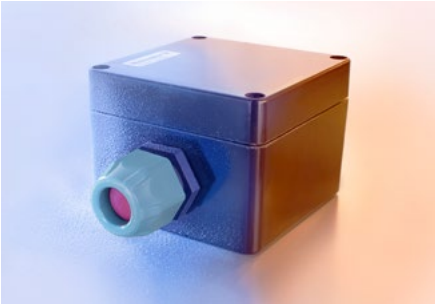
With impact resistance of 7 Joules, the explosion-proof polyamide cable glands offer extremely high levels of protection against external influences such as shocks or impacts. Together with their suitability for use in an extended temperature range and their proven conformity with current standards, these cable glands ensure safe and reliable functioning in a wide range of applications.

Your special advantages:
Impact and temperature resistant: The cable glands for use in areas at risk of explosion can withstand extreme temperature conditions. They are impact-resistant up to 7 Joules and can be used in any Weidmüller enclosures, guaranteeing versatile applicability with full standard conformity.

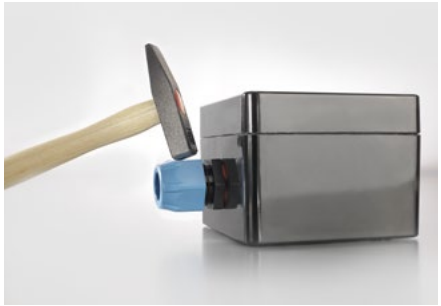
In process-intensive industries such as petrochemistry, energy production, machine construction, motor and drive technology and device components which are subjected to extremely high stresses. The cable glands can withstand even the harshest environmental conditions. Guarantee impact-resistance of up to 7 Joules over an extended temperature range.

Flexible application
Available in 8 standard sizes from M12 to M63 (additional thread types on request) and with 14 different clamping ranges, the new range of cable glands is suitable for an extremely wide range of applications.

Resistant to high temperatures
The cable glands have an operating temperature range of –40 °C to +70 °C with a chloroprene seal, and a range of as wide as –60 °C to +70 °C with a silicone seal.



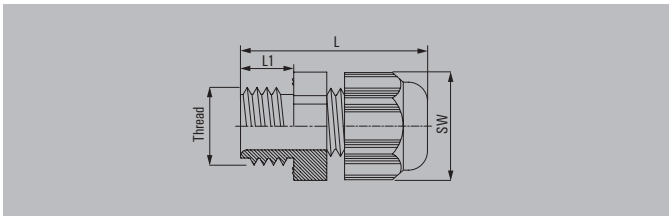
Extremely impact-resistant
With impact resistance of 7 Joules, the explosion-proof cable glands offer extremely high levels of protection against external influences such as shocks or impacts, in accordance with EN 60079-0:2012 + A11 : 2013.



Comprehensive approvals
Whether for Ex e or Ex i applications:
The plastic cable glands comply consistently with EN 60079-0:2012 + A11 : 2013 and are approved in accordance with ATEX, IECEx, EAC, and DNV GL.

Ex cable glands – Plastic – Ex e, Ex i, IP66 / IP68, 7J, –40°C – +70°C

Plastic cable gland for Ex applications with integrated strain relief, especially for Ex e and Ex i applications with chloroprene seal and 7 Joule impact resistance. Complete with integral membrane seal for clean transportation and storage.



Technical data

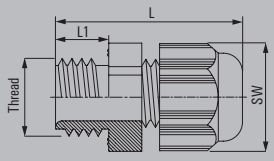
Material	Polyamide 6
Temperature range	-40 °C...70 °C
Seal insert	CR
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.)
Impact resistance	7 joules in acc. with IEC 60079-0
Marking	Ex eb IIC Gb, Ex tb IIIC Db IP66/68
Note	Length "L" depends on the cable diameter used.

Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
Ex e, deep black						
VG M12 EXE 4-6,5 CR7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	**2721930000**
VG M16 EXE 5-8 CR7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	**2721940000**
VG M16 EXE 6-10 CR7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	**2721950000**
VG M20 EXE 7-12 CR7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	**2721960000**
VG M20 EXE 7-13 CR7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	**2721970000**
VG M20 EXE 11-14 CR7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	**2721980000**
VG M25 EXE 12-17 CR7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	**2721990000**
VG M25 EXE 14-18 CR7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	**2722000000**
VG M32 EXE 16-21 CR7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	**2722010000**
VG M32 EXE 19-25 CR7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	**2722020000**
VG M40 EXE 20-28 CR7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	**2722030000**
VG M40 EXE 23-32 CR7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	**2722040000**
VG M50 EXE 31-38 CR7J G4	M 50	31-38 mm	54 / 18 mm	60 mm	10	**2722050000**
VG M63 EXE 35-44 CR7J G4	M 63	35-44 mm	54 / 18 mm	65 mm	10	**2722060000**
Ex i, light blue, deep black						
VG M12 EXI 4-6,5 CR7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	**2722210000**
VG M16 EXI 5-8 CR7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	**2722220000**
VG M16 EXI 6-10 CR7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	**2722230000**
VG M20 EXI 7-12 CR7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	**2722240000**
VG M20 EXI 7-13 CR7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	**2722250000**
VG M20 EXI 11-14 CR7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	**2722260000**
VG M25 EXI 12-17 CR7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	**2722270000**
VG M25 EXI 14-18 CR7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	**2722280000**
VG M32 EXI 16-21 CR7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	**2722290000**
VG M32 EXI 19-25 CR7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	**2722300000**
VG M40 EXI 20-28 CR7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	**2722310000**
VG M40 EXI 23-32 CR7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	**2722320000**
VG M50 EXI 31-38 CR7J G4	M 50	31-38 mm	54 / 18 mm	60 mm	10	**2722330000**
VG M63 EXI 35-44 CR7J G4	M 63	35-44 mm	54 / 18 mm	65 mm	10	**2722340000**
Note						

Ex cable glands – Plastic – Ex e, Ex i, IP66 / IP68, 7J, –60°C – +70°C

Plastic cable gland for Ex applications with integrated strain relief, especially for Ex e and Ex i applications with silicone seal and 7 Joule impact resistance. Complete with integral membrane seal for clean transportation and storage.



Technical data

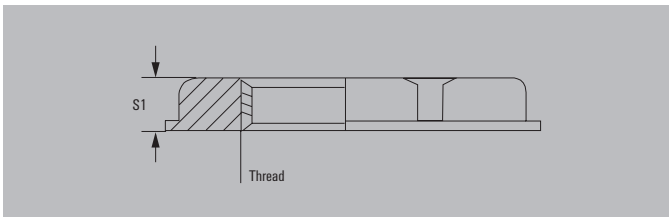
Material	Polyamide 6
Temperature range	-60 °C...70 °C
Seal insert	Silicone
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.)
Impact resistance	7 joules in acc. with IEC 60079-0
Marking	Ex eb IIC Gb, Ex tb IIIC Db IP66/68
Note	Length "L" depends on the cable diameter used.

Ordering data

Type	Thread	KB	L/L1	SW	Qty.	Order No.
Ex e, deep black						
VG M12 EXE 4-6,5 SI7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	**2722070000**
VG M16 EXE 5-8 SI7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	**2722080000**
VG M16 EXE 6-10 SI7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	**2722090000**
VG M20 EXE 7-12 SI7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	**2722100000**
VG M20 EXE 7-13 SI7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	**2722110000**
VG M20 EXE 11-14 SI7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	**2722120000**
VG M25 EXE 12-17 SI7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	**2722130000**
VG M25 EXE 14-18 SI7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	**2722140000**
VG M32 EXE 16-21 SI7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	**2722150000**
VG M32 EXE 19-25 SI7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	**2722160000**
VG M40 EXE 20-28 SI7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	**2722170000**
VG M40 EXE 23-32 SI7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	**2722180000**
VG M50 EXE 31-38 SI7J G4	M 50	31-38 mm	54 / 18 mm	60 mm	10	**2722190000**
VG M63 EXE 35-44 SI7J G4	M 63	35-44 mm	54 / 18 mm	65 mm	10	**2722200000**
Ex i, light blue, deep black						
VG M12 EXI 4-6,5 SI7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	**2722350000**
VG M16 EXI 5-8 SI7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	**2722360000**
VG M16 EXI 6-10 SI7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	**2722370000**
VG M20 EXI 7-12 SI7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	**2722380000**
VG M20 EXI 7-13 SI7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	**2722390000**
VG M20 EXI 11-14 SI7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	**2722400000**
VG M25 EXI 12-17 SI7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	**2722410000**
VG M25 EXI 14-18 SI7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	**2722420000**
VG M32 EXI 16-21 SI7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	**2722430000**
VG M32 EXI 19-25 SI7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	**2722440000**
VG M40 EXI 20-28 SI7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	**2722450000**
VG M40 EXI 23-32 SI7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	**2722460000**
VG M50 EXI 31-38 SI7J G4	M 50	31-38 mm	54 / 18 mm	60 mm	10	**2722470000**
VG M63 EXI 35-44 SI7J G4	M 63	35-44 mm	54 / 18 mm	65 mm	10	**2722480000**
Note						

Lock nuts – Plastic 7035

For fastening cable glands and accessories if no threaded hole is available. With circumferential collar to prevent damage to the substrate during installation.



Technical data

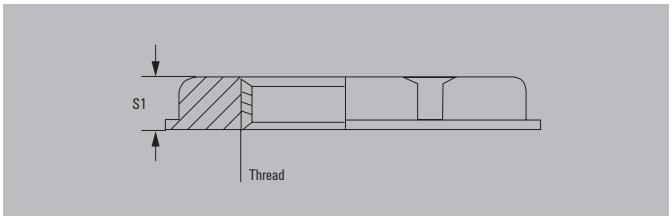
Material / Colour	Polyamid 6 (PA6 - GF30) / Light Grey / RAL 7035
Temperature range	-40 °C...100 °C
Flammability rating	V-2
Note	

Ordering data

Type	Thread	S1	SW	Qty.	Order No.
metric					
SKMU M12 - K GR	M 12	5.00	18	100	**1772440000**
SKMU M16 - K GR	M 16	5.00	22	100	**1772450000**
SKMU M20 - K GR	M 20	6.00	26	100	**1772460000**
SKMU M25 - K GR	M 25	6.00	32	100	**1772470000**
SKMU M32 - K GR	M 32	7.00	41	100	**1772480000**
SKMU M40 - K GR	M 40	7.00	50	50	**1772490000**
SKMU M50 - K GR	M 50	8.00	60	10	**1772500000**
SKMU M63 - K GR	M 63	8.00	75	10	**1772510000**
PG					
SKMU PG7-K GR	PG 7	5.00	19	100	**1697440000**
SKMU PG9-K GR	PG 9	5.00	22	100	**1697450000**
SKMU PG11-K GR	PG 11	5.00	24	100	**1697460000**
SKMU PG 13,5-K GR	PG 13.5	6.00	27	100	**1697470000**
SKMU PG16-K GR	PG 16	6.00	30	100	**1697480000**
SKMU PG21-K GR	PG 21	7.00	36	100	**1698220000**
SKMU PG29-K GR	PG 29	7.00	46	50	**1698230000**
SKMU PG36-K GR	PG 36	8.00	60	25	**1698240000**
SKMU PG42-K GR	PG 42	8.00	65	25	**1698250000**
SKMU PG48-K GR	PG 48	8.00	70	25	**1719090000**
Note	Further versions on request.				

Lock nuts – Plastic 9005

Lock nuts with collar for preventing enclosure damage on installation. These are used to secure plastic cable glands and blanking plugs - recommended for Ex e and Ex i plastic cable glands.



Technical data

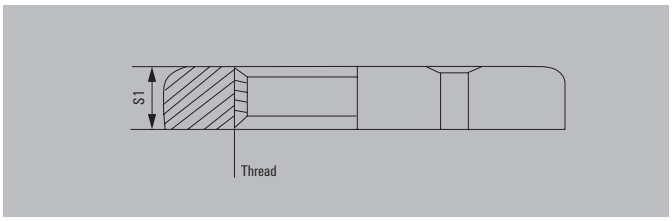
Material / Colour	Polyamid 6 (PA6 - GF30) / Deep black / RAL 9005
Temperature range	-40 °C...100 °C
Flammability rating	V-2
Note	Accessories for Ex cable glands are not subject to approval.

Ordering data

Type	Thread	S1	SW	Qty.	Order No.
metric					
SKMU M12 K SW	M 12	5.00	18	100	**1806540000**
SKMU M16 K SW	M 16	5.00	22	100	**1736920000**
SKMU M20 K SW	M 20	6.00	26	100	**1736930000**
SKMU M25 K SW	M 25	6.00	32	25	**1736940000**
SKMU M32 K SW	M 32	7.00	41	100	**1736950000**
SKMU M40 K SW	M 40	7.00	50	10	**1736960000**
SKMU M50 K SW	M 50	8.00	60	5	**1736970000**
SKMU M63 K SW	M 63	8.00	75	5	**1736980000**
PG					
SKMU PG7-K SW	PG 7	5.00	19	100	**1719100000**
SKMU PG9-K SW	PG 9	5.00	22	50	**1719110000**
SKMU PG11-K SW	PG 11	5.00	24	50	**1719120000**
SKMU PG13,5-K SW	PG 13.5	6.00	27	50	**1719130000**
SKMU PG16-K SW	PG 16	6.00	30	100	**1719140000**
SKMU PG21-K SW	PG 21	7.00	36	100	**1719150000**
SKMU PG29-K SW	PG 29	7.00	46	20	**1719160000**
SKMU PG36-K SW	PG 36	8.00	60	10	**1719170000**
SKMU PG42-K SW	PG 42	8.00	65	25	**1719180000**
SKMU PG48-K SW	PG 48	8.00	70	25	**1719190000**
Note	Further versions on request.				

Lock nuts – Brass – nickel-plated

For fastening cable glands and accessories if no threaded hole is available. Recommended when working with Ex applications.



Technical data

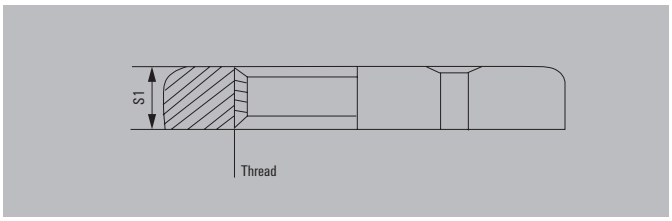
Material	Brass, nickel-plated
Note	

Ordering data

Type	Thread	S1	SW	Qty.	Order No.
metric					
SKMU M12 MS	M 12	2.8	14	100	**1772360000**
SKMU M16 MS	M 16	2.8	19	100	**1736990000**
SKMU M20 MS	M 20	3	24	100	**1737000000**
SKMU M25 MS	M 25	3	28	100	**1737010000**
SKMU M32 MS	M 32	4	36	100	**1737020000**
SKMU M40 MS	M 40	4.5	44	50	**1737030000**
SKMU M50 MS	M 50	5	54	25	**1737040000**
SKMU M63 MS	M 63	6	70	25	**1737050000**
SKMU M75 MS	M 75	8	85	5	**1737060000**
PG					
SKMU PG7-MS	PG 7	2.8	15	100	**1694070000**
SKMU PG9-MS	PG 9	2.8	18	100	**1694080000**
SKMU PG11-MS	PG 11	3	21	100	**1694090000**
SKMU PG13,5-MS	PG 13.5	3	23	100	**1694100000**
SKMU PG16-MS	PG 16	3	26	100	**1694110000**
SKMU PG21-MS	PG 21	3.5	32	100	**1719200000**
SKMU PG29-MS	PG 29	4	41	50	**1719210000**
SKMU PG36-MS	PG 36	5	51	50	**1719220000**
SKMU PG42-MS	PG 42	5	60	25	**1719230000**
SKMU PG48-MS	PG 48	5.5	64	10	**1719240000**
Note	Further versions on request.				

Lock nuts – Brass – natural

For fastening cable glands and accessories if no threaded hole is available. Recommended when working with Ex applications.



Technical data

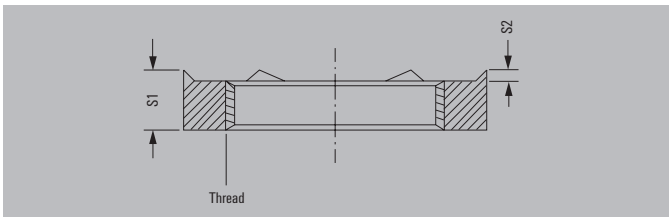
Material	Brass
Note	

Ordering data

Type	Thread	S1	SW	Qty.	Order No.
metric					
SKMU M16 MS SC	M 16	4	22	50	**0930640001**
SKMU M20 MS SC	M 20	4	24	50	**0930640002**
SKMU M25 MS SC	M 25	4	30	25	**0930640003**
SKMU M32 MS SC	M 32	4	40	20	**0930640004**
SKMU M40 MS SC	M 40	4.5	50	10	**0930640005**
SKMU M50 MS SC	M 50	5	65	5	**0930640006**
SKMU M63 MS SC	M 63	6.5	75	5	**0930640007**
SKMU M75 MS SC	M 75	7	90	5	**0930640008**
Note					

Lock nuts – Brass – EMC

For fastening cable glands and accessories if no threaded hole is available. Specially equipped with 6 edges which contact the enclosure when the lock nut is tightened.



Technical data

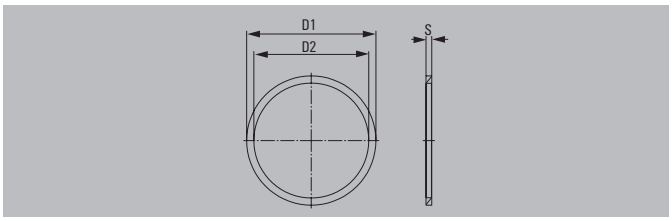
Material	Brass, nickel-plated
Note	

Ordering data

Type	Thread	S1	SW	Qty.	Order No.
metric					
SKMU EMV M12	M 12	3.6	15	100	**1777610000**
SKMU EMV M16	M 16	3.6	19	100	**1777620000**
SKMU EMV M20	M 20	3.6	24	100	**1777630000**
SKMU EMV M25	M 25	3.6	30	50	**1777640000**
SKMU EMV M32	M 32	4.1	36	50	**1777650000**
SKMU EMV M40	M 40	4.6	46	10	**1777660000**
SKMU EMV M50	M 50	4.6	60	10	**1777670000**
SKMU EMV M63	M 63	6.6	70	10	**1777680000**
PG					
SKMU EMV PG7	PG 7	4.7	15	20	**1718900000**
SKMU EMV PG9	PG 9	4.7	18	20	**1718910000**
SKMU EMV PG11	PG 11	4.7	21	20	**1718920000**
SKMU EMV PG13,5	PG 13.5	4.7	23	10	**1718930000**
SKMU EMV PG16	PG 16	4.7	26	10	**1718940000**
SKMU EMV PG21	PG 21	5.2	32	10	**1718950000**
SKMU EMV PG29	PG 29	5.7	41	15	**1718960000**
SKMU EMV PG 36	PG 36	4.6	51	1	**1777710000**
SKMU EMV PG 42	PG 42	4.6	58	1	**1777700000**
SKMU EMV PG 48	PG 48	5.6	64	1	**1777690000**
Note	Further versions on request.				

Flat IP washer – Standard – Polyethylene

For better sealing of the connection thread of a cable gland or accessory.



Technical data

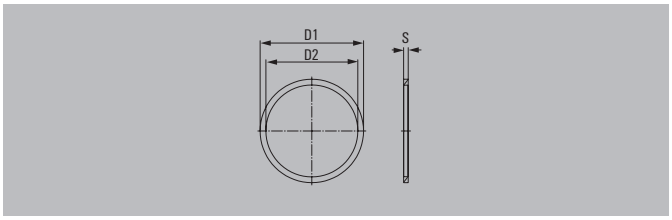
Material / Colour	Polyethylene / Transparent
Temperature range	-30 °C...90 °C
Note	

Ordering data

Type	Thread	D1	D2	S	Qty.	Order No.
metric						
GWDR M12-PO	M 12	16.00	12.00	2.00	50	**1777920000**
GWDR M16-PO	M 16	20.00	16.00	2.00	50	**1777930000**
GWDR M20-PO	M 20	24.00	20.00	2.00	100	**1777940000**
GWDR M25-PO	M 25	29.00	25.00	2.00	50	**1777950000**
GWDR M32-PO	M 32	36.00	32.00	2.00	50	**1777960000**
GWDR M40-PO	M 40	45.00	40.00	2.00	50	**1777970000**
GWDR M50-PO	M 50	56.00	50.00	2.00	50	**1777980000**
GWDR M63-PO	M 63	70.00	63.00	2.00	50	**1777990000**
PG						
GWDR PG7-PO	PG 7	16.50	12.50	2.00	100	**1719440000**
GWDR PG9-PO	PG 9	19.00	15.20	2.00	100	**1719450000**
GWDR PG11-PO	PG 11	22.50	18.60	2.00	100	**1719460000**
GWDR PG13,5-PO	PG 13.5	25.00	20.40	2.00	100	**1719470000**
GWDR PG16-PO	PG 16	27.00	22.50	2.00	100	**1719480000**
GWDR PG21-PO	PG 21	33.50	28.30	3.00	100	**1719490000**
GWDR PG29-PO	PG 29	43.50	37.00	3.00	50	**1719500000**
GWDR PG36-PO	PG 36	55.00	47.00	3.00	50	**1719510000**
GWDR PG42-PO	PG 42	63.00	54.00	3.00	10	**1719520000**
GWDR PG48-PO	PG 48	69.00	59.30	3.00	5	**1719530000**
Note	Further versions on request.					

Flat IP washer – Standard – Neoprene

For better sealing of the connection thread of a cable gland or accessory.



Technical data

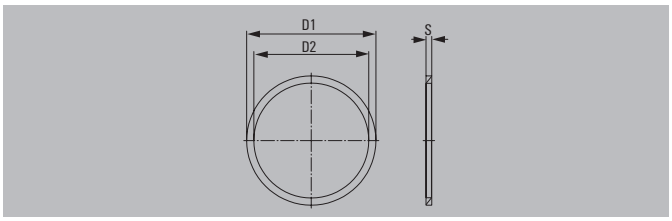
Material / Colour	Neoprene / Deep black / RAL 9005
Temperature range	-40 °C...100 °C
Note	

Ordering data

Type	Thread	D1	D2	S	Qty.	Order No.
metric						
GWDR M12-NP	M 12	18.00	12.00	1.20	50	**1913320000**
GWDR M16-NP	M 16	22.00	16.00	1.20	50	**1736230000**
GWDR M20-NP	M 20	24.00	20.00	1.20	50	**1736240000**
GWDR M25-NP	M 25	30.00	25.00	1.50	100	**1736250000**
GWDR M32-NP	M 32	42.00	32.00	1.50	50	**1736260000**
GWDR M40-NP	M 40	52.00	40.00	1.50	20	**1736270000**
GWDR M50-NP	M 50	63.00	50.00	1.50	20	**1736280000**
GWDR M63-NP	M 63	77.00	63.00	2.00	10	**1736290000**
PG						
GWDR PG7-NP	PG 7	17.00	11.60	1.20	100	**1719540000**
GWDR PG9-NP	PG 9	21.00	14.00	1.20	100	**1719550000**
GWDR PG11-NP	PG 11	24.00	17.00	1.20	100	**1719560000**
GWDR PG13,5-NP	PG 13.5	27.00	19.50	1.20	100	**1719570000**
GWDR PG16-NP	PG 16	30.00	22.50	1.20	100	**1719580000**
GWDR PG21-NP	PG 21	35.00	28.30	1.50	100	**1719590000**
GWDR PG29-NP	PG 29	45.00	37.00	1.50	50	**1719600000**
GWDR PG36-NP	PG 36	60.00	47.00	1.50	20	**1719610000**
GWDR PG42-NP	PG 42	65.00	54.00	1.50	10	**1719620000**
GWDR PG48-NP	PG 48	71.00	59.30	1.50	5	**1719630000**
Note	Further versions on request.					

Flat IP washer – Standard – Nylon

For better sealing of the connection thread of a cable gland or accessory.



Technical data

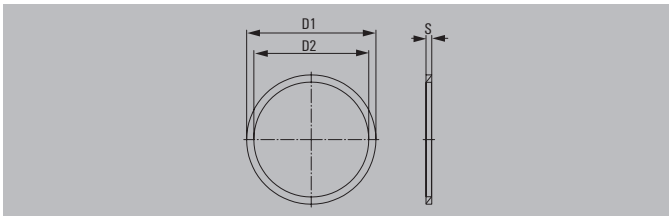
Material / Colour	Nylon 6 / traffic red / RAL 3020
Temperature range	-40 °C...135 °C
Note	

Ordering data

Type	Thread	D1	D2	S	Qty.	Order No.
metric						
KSWN M16	M 16	25.00	16.50	2.00	25	**1076630000**
KSWN M20	M 20	29.40	20.70	2.00	25	**0930730002**
KSWN M25	M 25	38.10	25.70	2.00	25	**1076640000**
KSWN M32	M 32	42.50	32.50	2.00	25	**1076650000**
KSWN M40	M 40	52.00	40.50	2.00	25	**0899780000**
KSWN M50	M 50	65.00	50.50	2.00	25	**0900660000**
KSWN M63	M 63	79.40	63.50	2.00	25	**1076660000**
KSWN M75	M 75	90.50	75.50	2.00	25	**1076670000**
Note						

Flat IP washer – Standard – Vulcanised fibre

For better sealing of the connection thread of a cable gland or accessory.



Technical data

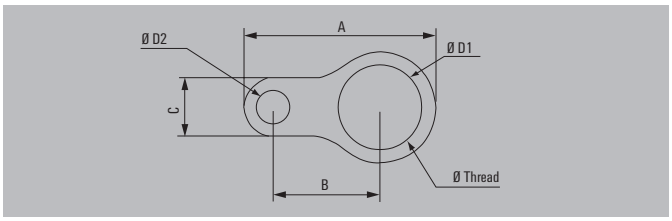
Material / Colour	Vulcanized fibre / brown-red / RAL 3011
Temperature range	-40 °C...95 °C
Note	

Ordering data

Type	Thread	D1	D2	S	Qty.	Order No.
metric						
KSWF M16	M 16	25.00	16.50	1.50	25	**1076680000**
KSWF M20	M 20	29.40	20.70	1.50	25	**0899750000**
KSWF M25	M 25	38.10	25.70	1.50	25	**0899770000**
KSWF M32	M 32	42.50	32.50	1.50	25	**1076690000**
KSWF M40	M 40	52.00	40.50	1.50	25	**1076710000**
KSWF M50	M 50	65.00	50.50	1.50	25	**1076720000**
KSWF M63	M 63	79.40	63.50	1.50	25	**1076730000**
KSWF M75	M 75	90.50	75.50	1.50	25	**1076740000**
Note						

Accessories – Earth tags – Brass

Earth tags are best used when a cable shielding is being tightened onto the cable gland, and when it has the same potential as another cable gland on the enclosure.



Technical data

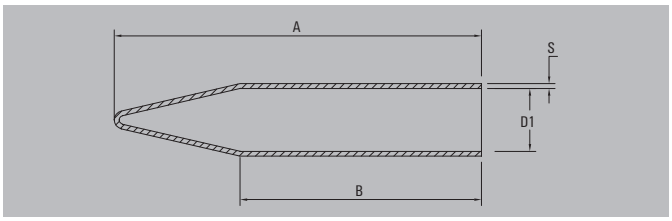
Material	Brass, nickel-plated
Note	

Ordering data

Type	Thread	A	B	C	D1	D2	Qty.	Order No.
metric, nickel-plated brass								
EA-RING MS/M 16	M 16	48.75	30.00	13.00	24.5	6.75	20	**1736480000**
EA-RING MS/M 20	M 20	53.8	33.00	13.00	28.6	7.00	20	**1736490000**
EA-RING MS/M 25	M 25	61.5	36.00	17.00	34	10.50	20	**1736500000**
EA-RING MS/M 32	M 32	73	41.00	22.00	42	12.20	20	**1736510000**
EA-RING MS/M 40	M 40	86.5	44.50	30.00	54	13.50	10	**1736520000**
EA-RING MS/M 50	M 50	111.5	58.00	40.00	67	13.50	10	**1736530000**
EA-RING MS/M 63	M 63	125.5	67.00	40.00	77	13.50	10	**1736540000**
EA-RING MS/M 75	M 75	137.5	73.00	40.00	89	13.50	10	**1736550000**
metric, brass natural								
EA-RING MS/M16 SC	M 16	50.8	31.80	12.80	25.4	6.90	20	**0930710001**
EA-RING MS/M20 SC	M 20	54	33.00	12.80	28.6	6.90	20	**0930710002**
EA-RING MS/M25 SC	M 25	60.2	36.50	12.80	34.8	6.90	20	**0930710003**
EA-RING MS/M32 SC	M 32	74.6	42.50	22.30	44.6	11.80	20	**0930710004**
EA-RING MS/M40 SC	M 40	86.7	45.40	31.70	53	13.50	10	**0930710005**
EA-RING MS/M50 SC	M 50	111	58.10	41.30	65.2	13.50	10	**0930710006**
EA-RING MS/M63 SC	M 63	128.7	66.80	41.30	82.6	13.50	10	**0930710007**
EA-RING MS/M75 SC	M 75	141.3	73.00	41.30	95.3	13.50	10	**0930710008**
Note	Further versions on request.							

Accessories – Shrouds – Silicone

The cover shroud a cable gland before and after the installation. It also protects against external environmental influences.



Technical data

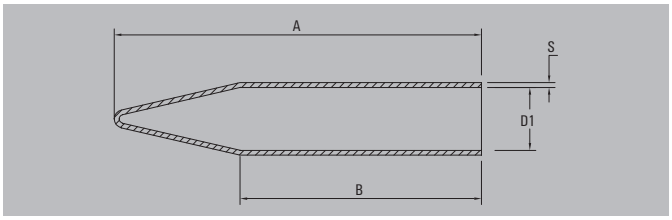
Material / Colour	Silicone / blue-grey / RAL 7031
Temperature range	-60 °C...200 °C
Hardness (IRHD)	60
Note	

Ordering data

Type	A	B	D1	D2	S	Qty.	Order No.
metric							
KSP L24 S	123	70.00	25.00	28	1.50	10	**0930700001**
KSP L30 S	130	75.00	30.00	33	1.50	10	**0930700002**
KSP L38 S	130	75.00	37.00	40	1.50	10	**0930700003**
KSP L46 S	130	75.00	46.00	49	1.50	10	**0930700004**
KSP L55 S	150	85.00	55.00	58	1.50	10	**0930700005**
KSP L65 S	150	85.00	65.00	68	1.50	10	**0930700006**
KSP L80 S	150	85.00	80.00	84	2.00	10	**0930700007**
KSP L90 S	165	95.00	90.00	94	2.00	10	**0930700008**
KSP L 104 S	210	120.00	104.00	108	2.00	10	**1193940000**
KSP L114 S	210	120.00	114.00	118	2.00	10	**1192790000**
Note							

Accessories – Shrouds – PVC

The cover shroud a cable gland before and after the installation. It also protects against external environmental influences.



Technical data

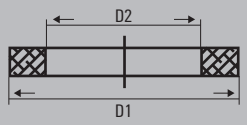
Material / Colour	PVC / Deep black / RAL 9005
Temperature range	-25 °C...70 °C
Hardness (Shore A)	65
Note	

Ordering data

Type	A	B	D1	D2	S	Qty.	Order No.
metric							
KSP L24	123	70.00	25.00	29	2.00	10	**1736570000**
KSP L30	130	75.00	30.00	34	2.00	10	**1736580000**
KSP L38	130	75.00	37.00	41	2.00	10	**1736590000**
KSP L46	130	75.00	46.00	50	2.00	10	**1736600000**
KSP L55	150	85.00	55.00	59	2.00	10	**1736610000**
KSP L65	150	85.00	65.00	69	2.00	10	**1736620000**
KSP L80	150	85.00	80.00	84	2.00	10	**1736630000**
KSP L90	165	95.00	90.00	94	2.00	10	**1736640000**
KSP EL30	130	80.00	30.00	34	2.00	10	**1736670000**
KSP EL38	175	95.00	37.00	41	2.00	10	**1736680000**
KSP EL46	205	105.00	46.00	50	2.00	10	**1076750000**
KSP EL55	220	115.00	55.00	59	2.00	10	**1076760000**
KSP EL65	265	125.00	65.00	69	2.00	10	**1076770000**
KSP EL80	280	130.00	80.00	84	2.00	10	**1076780000**
KSP EL90	280	140.00	90.00	94	2.00	10	**1076790000**
Note	*These shrouds have been specially designed for the Klippon® KDSU and Klippon® KUB cable glands.						

Accessories – Serrated washers, Stainless steel

Serrated stainless-steel washers to prevent mounted cable glands from loosening. Can also be used to roughen painted or passivated surfaces.



Technical data

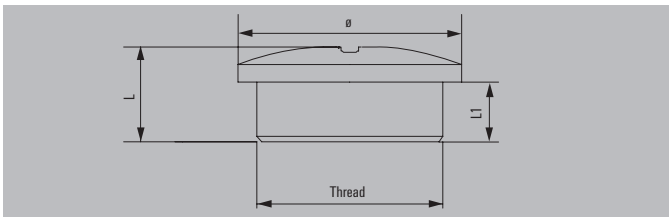
Material	Stainless steel 1.4404 (316L)
Note	

Ordering data

Type	Thread	D1	D2	Qty.	Order No.
metric					
SZS M16	M 16	25.5	17.30	50	**1736300000**
SZS M20	M 20	32.4	21.30	10	**1736310000**
SZS M25	M 25	37.4	25.30	10	**1736320000**
SZS M32	M 32	48	33.00	10	**1736330000**
SZS M40	M 40	60	41.00	5	**1736340000**
SZS M50	M 50	71	51.00	5	**1736350000**
SZS M63	M 63	87	64.00	5	**1736360000**
Note					

Blanking plugs – Plastic

Plastic blanking plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



Technical data

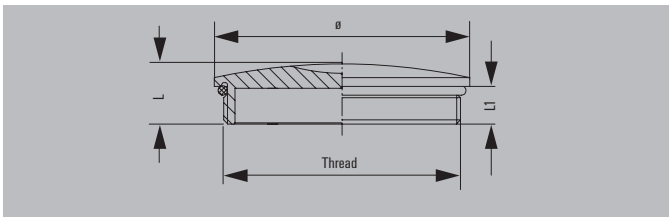
Material / Colour	Polyamid 6 (PA6 - GF30) / Light Grey / RAL 7035
Temperature range	-40 °C...100 °C
Protection class	IP54
Flammability rating	V-2
Note	Optional sealing ring.

Ordering data

Type	Thread	L	L1	Head Ø	Qty.	Order No.
metric						
VP M12 K54	M 12	5.5	6	15.00	100	**1776930000**
VP M16 K54	M 16	5.5	7	20.00	100	**1776920000**
VP M20 K54	M 20	6.5	7	24.00	100	**1776910000**
VP M25 K54	M 25	7	10	30.00	100	**1776900000**
VP M32 K54	M 32	7	11	37.00	50	**1776940000**
VP M40 K54	M 40	7	13	46.00	25	**1776950000**
VP M50 K54	M 50	8.5	14	56.00	10	**1776960000**
VP M63 K54	M 63	8.5	15	69.50	50	**1776970000**
PG						
VP 7-K54	PG 7	8	6	15.00	100	**1719250000**
VP 9-K54	PG 9	9.5	5	19.00	100	**0294760000**
VP 11-K54	PG 11	10	6.5	22.00	100	**0294860000**
VP 13,5-K54	PG 13.5	10	5	25.00	100	**0294960000**
VP 16-K54	PG 16	10	5	27.00	100	**0295060000**
VP 21-K54	PG 21	12	8	33.00	50	**0295160000**
VP 29-K54	PG 29	11.5	8	44.00	25	**0501160000**
VP 36-K54	PG 36	14	10	55.00	10	**0501260000**
VP 42-K54	PG 42	14	10	62.00	5	**0501360000**
VP 48-K54	PG 48	16	12	69.00	5	**1719260000**
Note	Other versions available on request. The blanking plugs must be tightened "hand-tight" with the screwdriver.					

Blanking plugs – Brass – Nickel-plated

Brass blanking plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



Technical data

Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...100 °C
Protection class	IP68 - 5 bar (30 min.)

Note

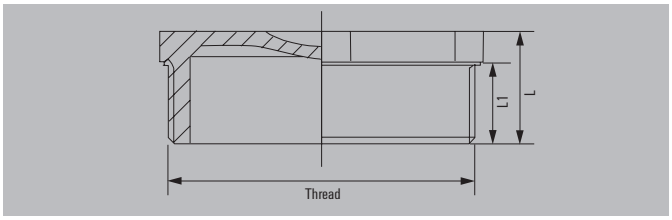
Ordering data

Type	Thread	L	L1	Head Ø	Qty.	Order No.
metric						
VP M12-MS65	M 12	7.5	5	14.00	100	**1777720000**
VP M16-MS65	M 16	8	5	18.00	100	**1777730000**
VP M20-MS65	M 20	9.5	6	22.00	100	**1777740000**
VP M25-MS65	M 25	11	7	28.00	100	**1777750000**
VP M32-MS65	M 32	12	8	35.00	50	**1777760000**
VP M40-MS65	M 40	13	8	44.00	50	**1777770000**
VP M50-MS65	M 50	15	9	54.00	25	**1777780000**
VP M63-MS65	M 63	16	10	67.00	10	**1777790000**
PG						
VP 7-MS65	PG 7	7.5	5	15.00	100	**0521600000**
VP 9-MS65	PG 9	8	5	18.00	100	**0294700000**
VP 11-MS65	PG 11	8	5	22.00	100	**0294800000**
VP 13,5-MS65	PG 13.5	9	6	24.00	100	**0294900000**
VP 16-MS65	PG 16	9	6	26.00	100	**0295000000**
VP 21-MS65	PG 21	10	6	32.00	50	**0295100000**
VP 29-MS65	PG 29	12	8	40.00	50	**0501100000**
VP 36-MS65	PG 36	15	9	50.00	25	**0501200000**
VP 42-MS65	PG 42	16	10	57.00	25	**0501300000**
VP 48-MS65	PG 48	16	10	64.00	10	**1719270000**

Note Other versions available on request. The blanking plugs must be tightened "hand-tight" with the screwdriver.

Blanking plugs – Plastic – Ex e

Blanking plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree – especially for Ex-e Ex applications.



Technical data

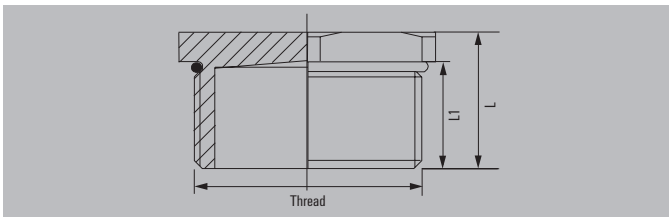
Material / Colour	Polyamide / Deep black / RAL 9005
Temperature range	-20 °C...80 °C
Protection class	IP54, IP66
Protection degree with GWDR	IP66, IP68
UL 94 flammability rating	V-2
Marking	Ex e II, Ex tD
Note	Optional sealing ring.

Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
metric						
VP M16-EXE SW	M 16	19	15	19	100	**1737070000**
VP M20-EXE SW	M 20	19	15	23	100	**1737080000**
VP M25-EXE SW	M 25	20	15	28	100	**1737090000**
VP M32-EXE SW	M 32	20.5	15	36	100	**1737100000**
VP M40-EXE SW	M 40	20.5	15	44	20	**1737110000**
VP M50-EXE SW	M 50	21	15	54	5	**1737120000**
VP M63-EXE SW	M 63	23.5	15	67	5	**1737130000**
Note						

Blanking plugs – Brass – Ex e, Ex d

Blanking plug is used for sealing surplus threaded holes to ensure the IP protection degree - especially for Ex-e and Ex-d applications.



Technical data

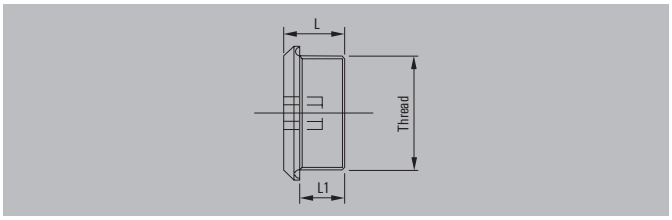
Material	Brass, nickel-plated
O-Ring	NBR
Temperature range	-40 °C...100 °C
Protection class	IP54, IP64, IP68
Marking	II 2 GD, Ex d IIC, Ex e II, Ex tD
Note	

Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
metric						
VP M16 EXE MS	M 16	15	12	18	50	**1210890000**
VP M20 EXE MS	M 20	15	12	23	50	**1210900000**
VP M25 EXE MS	M 25	15.5	12	29	25	**1210910000**
VP M32 EXE MS	M 32	16	12	39	10	**1210920000**
VP M40 EXE MS	M 40	19	15	45	10	**1210930000**
VP M50 EXE MS	M 50	20	15	58	5	**1210940000**
VP M63 EXE MS	M 63	26	19	70	5	**1210950000**
Note						

Blanking plugs – Brass and Stainless steel – Ex e, Ex d, IP66 / IP68

The KSPMH is a mushroom-shaped blanking plug with a hexagon socket. It is used to seal unused threaded holes so that cable glands can be inserted in the future. The KSPMH is approved for pressure-resistant Ex d encapsulations and increased safety Ex e applications.



Technical data

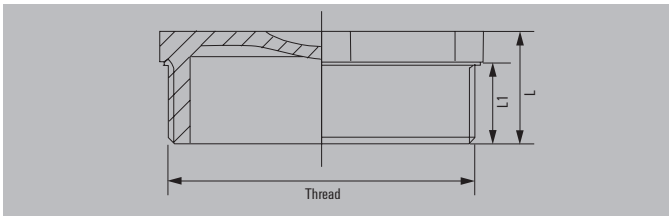
O-Ring	Silicone
Temperature range	-60 °C...200 °C
Protection class	IP66, IP68 (100 m / 168 h)
Marking	Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db
Note	

Ordering data

Type	Thread	L	L1	Qty.	Order No.
brass					
KSPMH M16 BSC	M 16	20.5	16	20	**1477740000**
KSPMH M20 BSC	M 20	21	16	20	**1477750000**
KSPMH M25 BSC	M 25	21	16	20	**1477770000**
KSPMH M32 BSC	M 32	21	16	10	**1477780000**
KSPMH M40 BSC	M 40	21.5	16	10	**1477790000**
KSPMH M50 BSC	M 50	21.5	16	1	**1477800000**
KSPMH M63 BSC	M 63	22	16	1	**1477810000**
KSPMH M75 BSC	M 75	22	16	1	**1477830000**
Stainless steel					
KSPMH M16 SSC	M 16	20.5	16	20	**1477820000**
KSPMH M20 SSC	M 20	21	16	20	**1477840000**
KSPMH M25 SSC	M 25	21	16	20	**1477870000**
KSPMH M32 SSC	M 32	21	16	10	**1477890000**
KSPMH M40 SSC	M 40	21.5	16	10	**1477910000**
KSPMH M50 SSC	M 50	21.5	16	1	**1477930000**
KSPMH M63 SSC	M 63	22	16	1	**1477950000**
KSPMH M75 SSC	M 75	22	16	1	**1477980000**
Note					

Blanking plugs – Plastic – Ex e, IP66

For secure connection of unused screw-in threads or through-hole in enclosures. For Ex e applications with an impact resistance of 7 Joule in accordance with IEC 60079-0.



Technical data

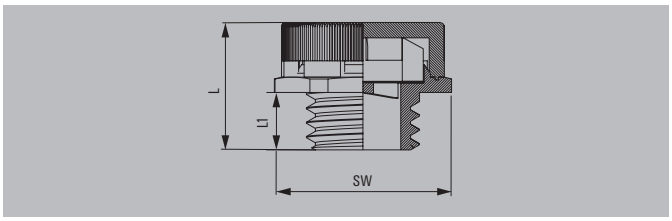
Material / Colour	Polyamide 6 / Deep black / RAL 9005
O-Ring	Silicone
Temperature range	-60 °C...70 °C
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.)
Impact resistance	7 joules in acc. with IEC 60079-0
Marking	Ex eb IIC Gb, Ex tb IIIC Db IP66/68
Note	

Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
VP M12 EX SI 7J	M 12	15	10	15	100	**2066710000**
VP M16 EX SI 7J	M 16	16.3	12	19	100	**2066720000**
VP M20 EX SI 7J	M 20	17	11	23	100	**2066730000**
VP M25 EX SI 7J	M 25	15.8	10	28	100	**2066740000**
VP M32 EX SI 7J	M 32	22.8	15	36	100	**2066750000**
VP M40 EX SI 7J	M 40	26.5	18	46	20	**2066760000**
VP M50 EX SI 7J	M 50	27.5	18	55	20	**2066770000**
VP M63 EX SI 7J	M 63	27.5	18	69	20	**2066940000**
Note						

Compensation elements – Plastic – DAE

The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.



Technical data

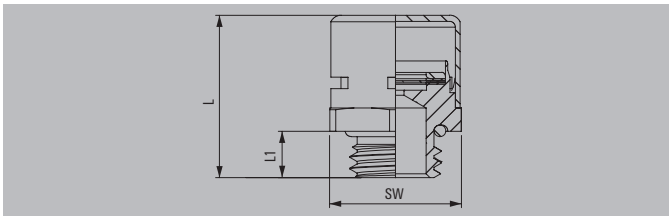
Material / Colour	Polyamide 6 / Deep black / RAL 9005
O-Ring	NBR
Temperature range	-40 °C...105 °C
Protection class	IP66, IP68 (1 m / 60 min), IP69K
Air flow	0.8 l/min at 0.1 bar ΔP, up to 7.6 l/min at 1bar ΔP
Water inlet point	> 1.5 bar
UL 94 flammability rating	V-2
Note	

Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
metric						
DAE M12 PA LONG	M 12	17.4	10	17	10	**1868570000**
DAE M12 PA SHORT	M 12	13.4	6	17	10	**1868560000**
Note	Light grey version - RAL 7035 - on request.					

Compensation elements – Stainless steel – DAE

The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.



Technical data

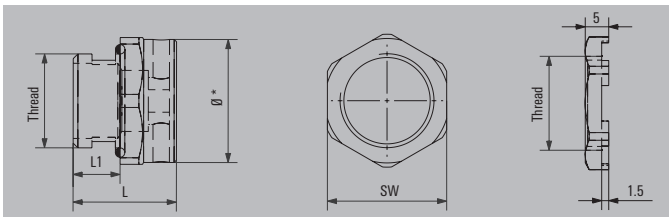
Material	Stainless steel 1.4305 (303)
O-Ring	NBR
Temperature range	-40 °C...105 °C
Protection class	IP66, IP68 (1 m / 60 min), IP69K
Air flow	0.4 l/min at 0.1 bar ΔP, up to 5.0 l/min at 1bar ΔP
Water inlet point	> 1.5 bar
Note	

Ordering data

Type	Thread	L	L1	SW	Qty.	Order No.
metric						
DAE M12 SS	M 12	21.1	10	17	10	**1868550000**
Note						

Breather drains – Klippon® BDX

The BDX compensating element is used for ventilating the enclosure and preventing a buildup of moisture, particularly in Ex applications.



Technical data

Material	Brass / Stainless steel 1.4404 (316L)
Protection class	IP66
Impact resistance	7 J ATEX version
Filter	Bronze insert (90% copper, 10% tin)
Air flow	0.25 l / 1 h
Sealing	Silicone / O-Ring
Temperature range	-60 °C...200 °C
Colour	Natural
Note	

Ordering data

Type	Material	Thread	L / L1	SW	*Diameter	Qty.	Order No.
KLIPPON BDX M20 B	Brass	M 20	22 / 10	27	26.20	1	**2519520000**
KLIPPON BDX M20 S	Stainless steel 1.4404 (316L)	M 20	22 / 10	27	26.20	1	**2519550000**
KLIPPON BDX M20X15 S	Stainless steel 1.4404 (316L)	M 20	22 / 15	27	26.20	1	**2519570000**
KLIPPON BDX M25 S	Stainless steel 1.4404 (316L)	M 25	22 / 10	32	31.00	1	**2519590000**

Note

- The breather-drain is only to be fitted on the bottom side of the enclosure, aligned vertically with the thread upwards, and at the lowest point to permit proper drainage.
- The water flow rate has been tested by a water filled empty enclosure (no pressure or heat producing internal components). The water flow rate can slightly differ by influences from operational parameter and environmental conditions.
- Installation specifications and torques can be found in the installation instructions.

Cable entry system

Cable entry system	Cable Management – Cable Entry System – Cabtite	E.2
	Cable grommets	E.4
	Cable entry frames	E.5
	Divisible cable gland and accessories	E.7

Flexible and safe insertion of pre-assembled cables

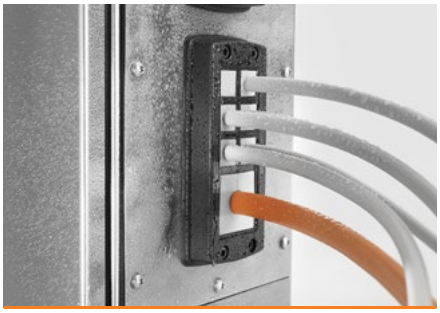
Cabtite – the new modular system cable entry system

Managing pre-assembled cables is challenging for many plant manufacturers, especially when the cables run through cabinet or enclosure walls. A flexible cable entry system speeds up installation, facilitates service, and minimises downtime.

With the Cabtite cable entry system, maximal flexibility and time savings in cable management can be achieved. Assembled and unassembled cables in control cabinets, enclosures and machines are securely sealed and protected against tensile stress. The modular design consisting of a frame or cable gland, snap-in inlays and sealing elements allows quick configuration of cable entry cut-outs – without tools and with reliable sealing in IP66 according to DIN EN 60529.

Your special advantages:
- Maximum flexibility and time savings
- High IP protection class (IP66) as well NEMA 4x and 12
- Integrated strain relief acc. to DIN EN 62444
- Installation safety through simple handling with acoustic feedback
- Preservation of the manufacturer's guarantee for pre-assembled cables
- Fast adaptation of cable management in the event of system changes, service and maintenance cases

Individual assembly
Whether with frames or with separable cable glands with inlay and sealing elements: the basic modular components guarantee maximal flexibility and a wide range of variants.



High reliability
One click informs the user about the correct installation and guarantees error-free operation. The foamed-in seals guarantee high IP and NEMA protection.

No loss of warranty
Due to the cut-in sealing elements, the cables and wires are precisely encased. Existing connectors do not have to be dismantled – and the manufacturer's warranty is maintained.

Cabtite SE - Sealing element small

Cable grommets
for ASI cables

The Cabtite SE sealing elements are used in the Cabtite FR frame or in the separable cable gland Cabtite CGS. The conical design allows easy installation, reliably seals gaps and provides strain relief in accordance with DIN EN 62444. For installation, the sealing elements are pressed from the inside to the outside into the snap-in inlays previously fitted in the frame or, in the case of the Cabtite CGS divisible cable gland, are placed between the cable gland half-shells. Various sealing elements with different cable diameters and geometries are available.

Technical data

Material	TPE
Halogen / Silicone	No / No
Operating temperature, min.	Light Grey: -40 °C; Deep black: -40 °C
Operating temperature, max.	Light Grey: 90 °C; Deep black: 120 °C
UL 94 flammability rating	Light Grey: V-0; Deep black: HB
Note	

Ordering data

Type	Clamping range	Qty.	Deep black Order No.	Light Grey Order No.
Individual sealing elements				
CABTITE SE 1.5-2 SML	1.5...2 mm	10	2584780000	2583360000
CABTITE SE 2-3 SML	2...3 mm	10	2584760000	2583380000
CABTITE SE 3-4 SML	3...4 mm	10	2584730000	2583400000
CABTITE SE 4-5 SML	4...5 mm	10	2584680000	2583440000
CABTITE SE 5-6 SML	5...6 mm	10	2584710000	2583450000
CABTITE SE 6-7 SML	6...7 mm	10	2584690000	2583460000
CABTITE SE 7-8 SML	7...8 mm	10	2584670000	2584660000
CABTITE SE 8-9 SML	8...9 mm	10	2584330000	2584650000
CABTITE SE 9-10 SML	9...10 mm	10	2584080000	2584630000
CABTITE SE 10-11 SML	10...11 mm	10	2584060000	2584610000
CABTITE SE 11-12 SML	11...12 mm	10	2584040000	2584600000
CABTITE SE 12-13 SML	12...13 mm	10	2584020000	2584590000
CABTITE SE 13-14 SML	13...14 mm	10	2584000000	2584570000
CABTITE SE 14-15 SML	14...15 mm	10	2583980000	2584560000
CABTITE SE 15-16 SML	15...16 mm	10	2583960000	2584550000
Special geometry ASI				
CABTITE SE 1/ASI SML		10	2583530000	2584810000
CABTITE SE 2/ASI SML		10	2583520000	2584800000
Multiple sealing element				
CABTITE SE 2/4-5 SML	4...5 mm	10	2583620000	2584900000
CABTITE SE 2/5-6 SML	5...6 mm	10	2583610000	2584890000
CABTITE SE 2/7 SML	7...8 mm	10	2583550000	2584830000
CABTITE SE 2/8 SML	8...9 mm	10	2583540000	2584820000
CABTITE SE 3/5-6 SML	5...6 mm	10	2652280000	2652290000
CABTITE SE 4/2-3 SML	2...3 mm	10	2583590000	2584870000
CABTITE SE 4/3-4 SML	3...4 mm	10	2583580000	2584860000
CABTITE SE 4/4-5 SML	4...5 mm	10	2583560000	2584840000
Cone sealing element				
CABTITE CSE 2-11 SML	2...11 mm	10	2583510000	
Blind plugs				
CABTITE BSE SML		10	2584790000	2583350000
Note				

Cabtite SE - sealing elements large

Blanking plugs

Cone sealing element

The Cabtite SE sealing elements in large design are identical in construction to those in small design.However, they can accommodate cables with a larger outer diameter.

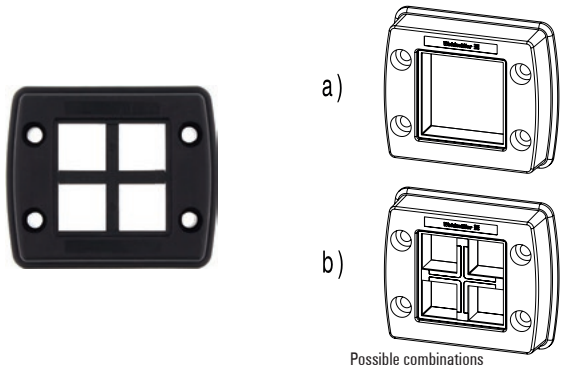
Technical data

Material	TPE
Halogen / Silicone	No / No
Operating temperature, min.	Deep black: -40 °C; Light Grey: -40 °C
Operating temperature, max.	Deep black: 120 °C; Light Grey: 90 °C
UL 94 flammability rating	Deep black: HB; Light Grey: V-0
Note	

Ordering data

Type	Clamping range	Qty.	Deep black Order No.	Light Grey Order No.
Individual sealing elements				
CABTITE SE 14-15 LRG	14...15 mm	10	2583880000	2584510000
CABTITE SE 15-16 LRG	15...16 mm	10	2583860000	2584500000
CABTITE SE 16-17 LRG	16...17 mm	10	2583850000	2584490000
CABTITE SE 17-18 LRG	17...18 mm	10	2583840000	2584480000
CABTITE SE 18-19 LRG	18...19 mm	10	2583830000	2584470000
CABTITE SE 19-20 LRG	19...20 mm	10	2583810000	2584460000
CABTITE SE 20-21 LRG	20...21 mm	10	2583790000	2584450000
CABTITE SE 21-22 LRG	21...22 mm	10	2583770000	2584440000
CABTITE SE 22-23 LRG	22...23 mm	10	2583750000	2584430000
CABTITE SE 23-24 LRG	23...24 mm	10	2583730000	2584420000
CABTITE SE 24-25 LRG	24...25 mm	10	2583710000	2584410000
CABTITE SE 25-26 LRG	25...26 mm	10	2583700000	2584400000
CABTITE SE 26-27 LRG	26...27 mm	10	2583690000	2584390000
CABTITE SE 27-28 LRG	27...28 mm	10	2583680000	2584370000
CABTITE SE 28-29 LRG	28...29 mm	10	2583670000	2584350000
CABTITE SE 29-30 LRG	29...30 mm	10	2583660000	2584380000
CABTITE SE 30-31 LRG	30...31 mm	10	2583650000	2584360000
CABTITE SE 31-32 LRG	31...32 mm	10	2583640000	2584340000
CABTITE SE 32-33 LRG	32...33 mm	10	2583630000	2584920000
CABTITE SE 33-34 LRG	33...34 mm	10	2595510000	2584910000
CABTITE SE 34-35 LRG	34...35 mm	10	2595520000	2595530000
Cone sealing element				
CABTITE CSE 7-24 LRG	7...24 mm	10	2583500000	
Blind plugs				
CABTITE BSE LRG		10	2583900000	2584520000
Note				

Cabtite FR - CABTITE FR 4-1 BK SET



Possible combinations

The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble and available in four different sizes. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 / Type 12, Type 4x
UL 94 flammability rating	V-0
Note	

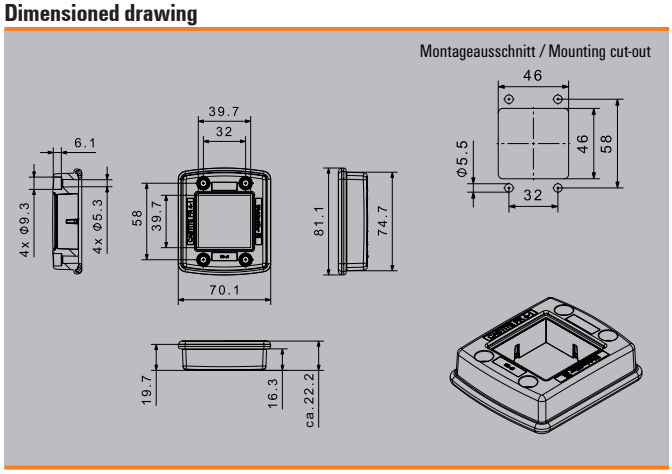
Ordering data

Type	Qty.	Order No.
Set		
CABTITE FR 4-1 BK SET	1	2583780000
Single frame (without snap-in inlay)		
CABTITE FR 4-1 BK	1	2583490000
Note The individual frames do not contain any Rastinlays or sealing elements.		

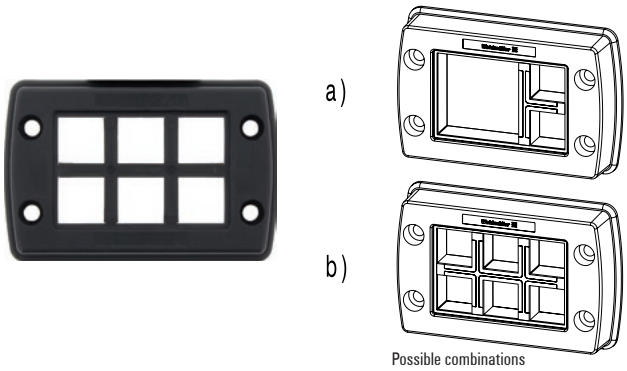
Accessories

Product type	Type	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 4-1 BK	10	2584260000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
Note			

Dimensioned drawing



Cabtite FR - CABTITE FR 10/6 BK SET



Possible combinations

The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble and available in four different sizes. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 / Type 12, Type 4x
UL 94 flammability rating	V-0
Note	

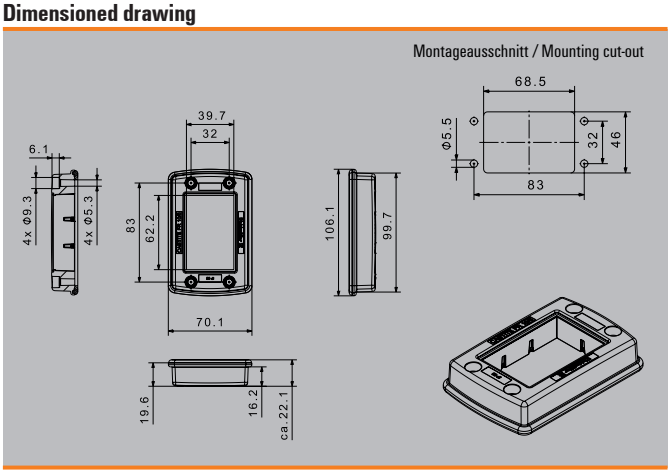
Ordering data

Type	Qty.	Order No.
Set		
CABTITE FR 10/6 BK SET	1	2583760000
Single frame (without snap-in inlay)		
CABTITE FR 10/6 BK	1	2583480000
Note The individual frames do not contain any Rastinlays or sealing elements.		

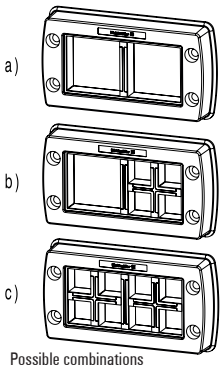
Accessories

Product type	Type	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 10/6 BK	10	2584240000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
Note			

Dimensioned drawing



Cabtite FR - CABTITE FR 16/8 BK SET



Possible combinations

The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble and available in four different sizes. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a, b or c) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameters.

Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 / Type 12, Type 4x
UL 94 flammability rating	V-0
Note	

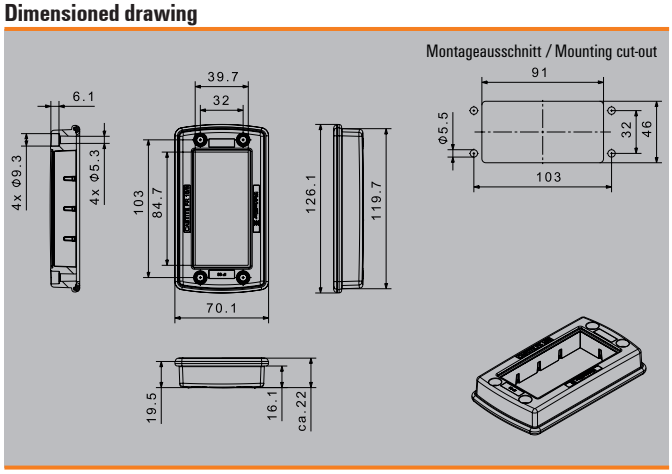
Ordering data

Type	Qty.	Order No.
Set		
CABTITE FR 16/8 BK SET	1	2583740000
Single frame (without snap-in inlay)		
CABTITE FR 16/8 BK	1	2583470000
Note The individual frames do not contain any Rastinlays or sealing elements.		

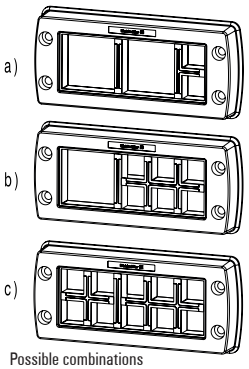
Accessories

Product type	Type	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 16/8 BK	10	2584220000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
Note			

Dimensioned drawing



Cabtite FR - CABTITE FR 24/10 BK SET



Possible combinations

The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble and available in four different sizes. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a, b or c) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameters.

Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 / Type 12, Type 4x
UL 94 flammability rating	V-0
Note	

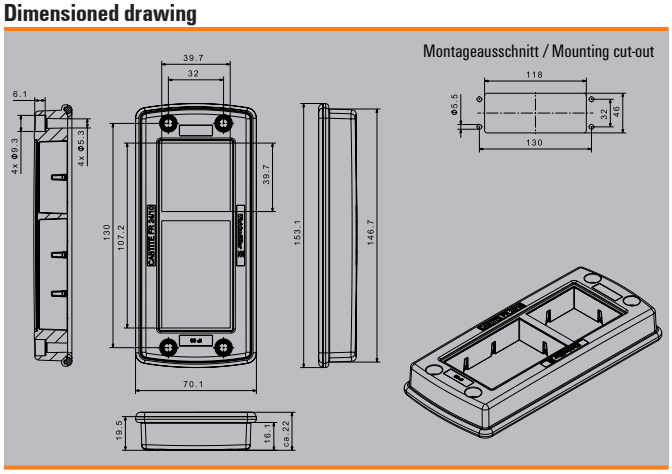
Ordering data

Type	Qty.	Order No.
Set		
CABTITE FR 24/10 BK SET	1	2583720000
Single frame (without snap-in inlay)		
CABTITE FR 24/10 BK	1	2583800000
Note The individual frames do not contain any Rastinlays or sealing elements.		

Accessories

Product type	Type	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 24/10 BK	10	2584210000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
Note			

Dimensioned drawing



Cabtite CGD - separable cable gland

Spare counter nut

For metric through holes from M20 to M63, the Cabtite cable entry system offers separable cable glands for cables with and without plugs. In case of maintenance or changes in the system, pre-assembled cables with diameters from 2 to 35 mm can be quickly and safely inserted into switch cabinets or housings. After inserting the sealing elements (Cabtite SE), the two halves of the cable gland are simply snapped together. A likewise separable lock nut on the inside of the cabinet ensures a secure and firm hold.

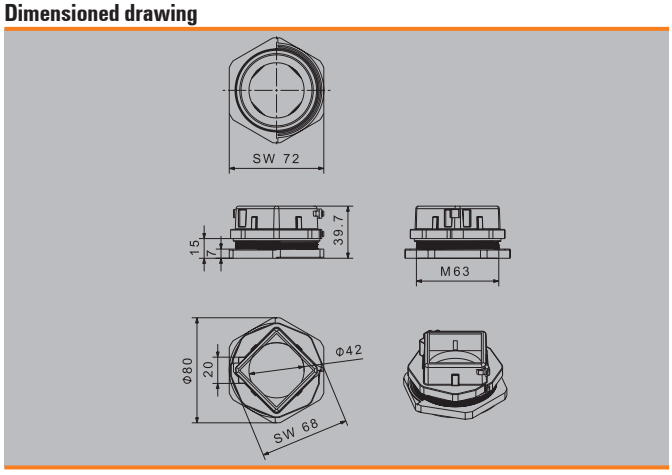
Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 /
UL 94 flammability rating	V-0
Note	

Ordering data

Type	Qty.	Order No.
Divisible cable gland*		
CABTITE CGS M20 BK	10	**2584200000**
CABTITE CGS M25 BK	10	**2584180000**
CABTITE CGS M32 BK	10	**2584160000**
CABTITE CGS M40 BK	5	**2584150000**
CABTITE CGS M50 BK	5	**2584130000**
CABTITE CGS M63 BK	5	**2584120000**
Articulated locknut		
CABTITE LNS M20 BK	10	**2584110000**
CABTITE LNS M25 BK	10	**2584090000**
CABTITE LNS M32 BK	10	**2584070000**
CABTITE LNS M40 BK	5	**2584050000**
CABTITE LNS M50 BK	5	**2584030000**
CABTITE LNS M63 BK	5	**2584010000**
Rastinly for M40-M63**		
CABTITE GI X BK	5	**2584290000**
Note	*The cable glands are supplied with a locknut. **The snap-in insert is required to install 4 small sealing elements in the cable gland.	

Dimensioned drawing



Cabtite GI - Rastinlay

The insertable snap-in inlay allows the frame openings/cable glands to be configured as required for the small or large sealing elements used. Thus the Cabtite cable entry system can be variably configured for different requirements (cables, lines, hoses, pneumatic and hydraulic lines).

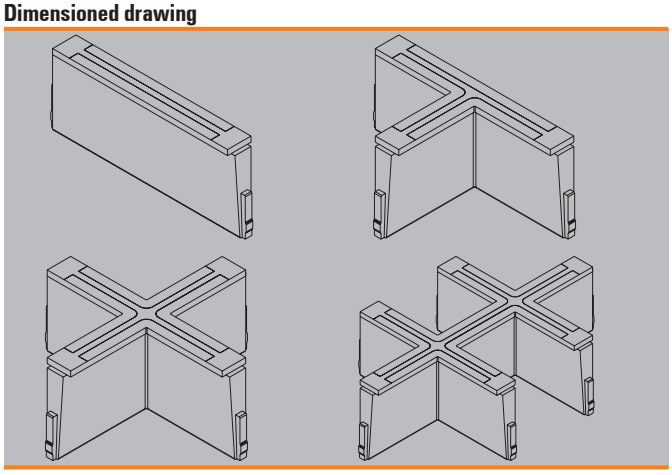
Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40...120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 /
UL 94 flammability rating	V-0
Note	

Ordering data

Type	Qty.	Order No.
CABTITE GI I BK	5	**2584320000**
CABTITE GI T BK	5	**2584300000**
CABTITE GI H BK	5	**2584270000**
Rastinly for M40-M63**		
CABTITE GI X BK	5	**2584290000**
Note	**The locking inlay is required to install 4 small sealing elements in the cable gland.	

Dimensioned drawing



Cabtite CR - Cable support strips (EMC)

In combination with a large number of different shield connection clamps (KLBÜ), the shield connection rails enable practical, uncomplicated and fast shielding of cables.

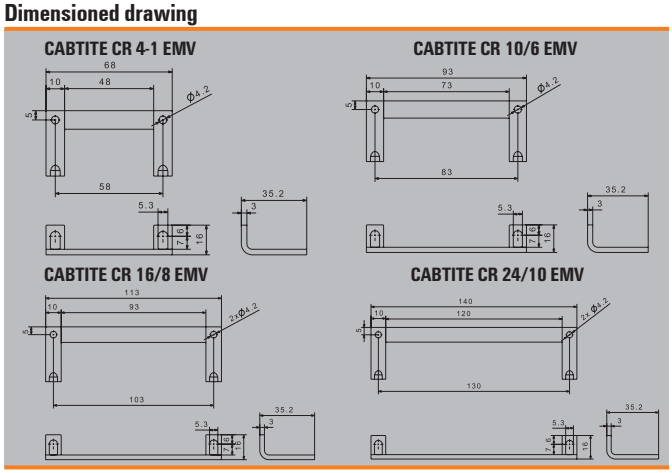
Technical data

Material	Steel, galvanized
Colour	silver
Note	

Ordering data

Type	Qty.	Order No.
CABTITE CR 4-1 EMV	10	2583950000
CABTITE CR 10/6 EMV	10	2583930000
CABTITE CR 16/8 EMV	10	2583910000
CABTITE CR 24/10 EMV	10	2583890000
Note		

Dimensioned drawing



Cabtite BP - Blanking plug

The blind plugs are used for the safe closing of unneeded cable passages in the sealing elements.

Technical data

Material	Polyamide
Colour	red
Operating temperature	-60...100 °C
Note	

Ordering data

Type	Qty.	Order No.
CABTITE BP 2MM PA	50	2652300000
CABTITE BP 3MM PA	50	2652310000
CABTITE BP 4MM PA	50	2652320000
CABTITE BP 5MM PA	50	2652330000
CABTITE BP 6MM PA	50	2652340000
CABTITE BP 7MM PA	50	2652350000
CABTITE BP 8MM PA	50	2652360000
CABTITE BP 9MM PA	50	2652370000
CABTITE BP 10MM PA	50	2652380000
CABTITE BP 12MM PA	50	2652400000
CABTITE BP 13MM PA	50	2652410000
CABTITE BP 14MM PA	50	2652420000
CABTITE BP 17MM PA	50	2652430000
CABTITE BP 20MM PA	50	2652440000
CABTITE BP 21MM PA	50	2652450000
CABTITE BP 25MM PA	50	2652460000
CABTITE BP 28MM PA	50	2652470000
CABTITE BP 35MM PA	50	2652480000
Note		

Tools

Tools Overview F.2

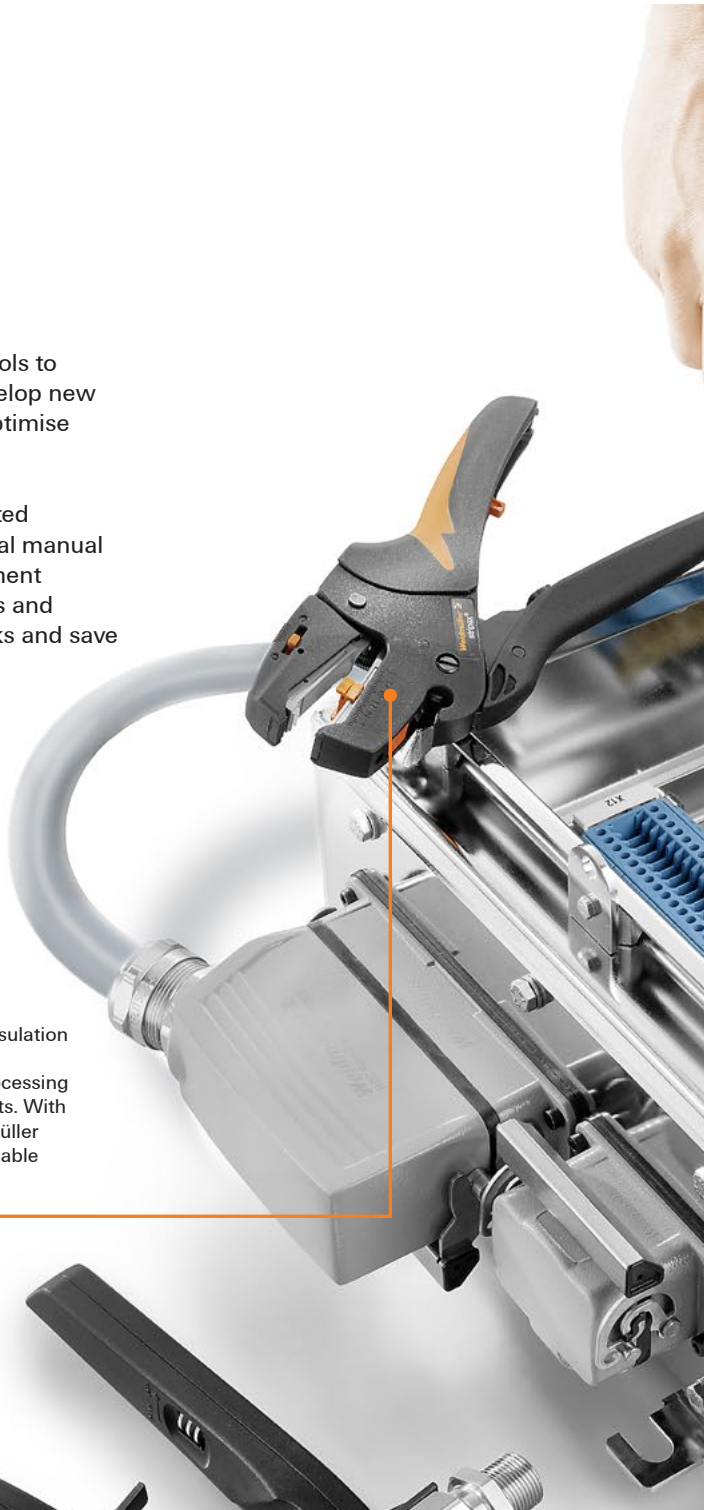
Tools

At Weidmüller, we have been developing and manufacturing quality tools to meet the most stringent requirements for over 30 years. When we develop new solutions, we always keep our goal in mind: to make your job easier, optimise processes and help protect the long-term productivity of your business.

The best conditions for this can be created by using perfectly coordinated products and tools from a single source. Our range includes professional manual tools for cutting, stripping, crimping, testing and screwing. The assortment is supplemented by tool sets that sensibly and efficiently combine tools and matching accessories. Our machines simplify continually recurring tasks and save valuable time.

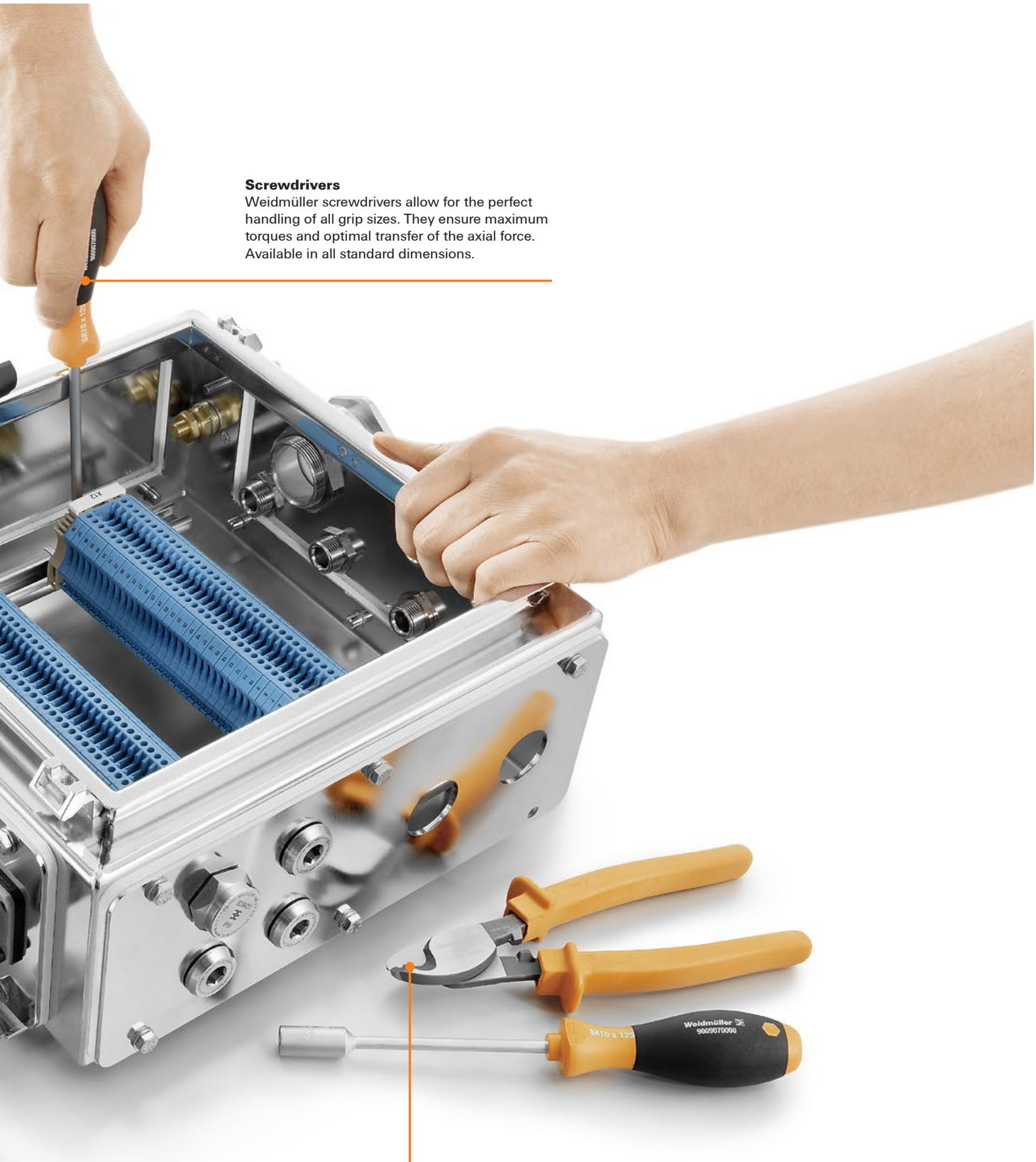
Your special advantages:

- Increased safety thanks to the tool certification service
- Flexibility in form and function
- High level of efficiency thanks to sophisticated ergonomics and multiple actions per work process
- Profitable interplay between products and tools from a single source



Stripping tools
Thanks to the exact adaptation to the insulation and wire cross-section, our professional stripping tools guarantee defect-free processing with consistently reliable stripping results. With its wide range of stripping tools, Weidmüller satisfies all the criteria for professional cable processing.

Cable gland tools
The Weidmüller cable gland tools are suitable for an extremely wide range of cable glands. They enable you to tighten or loosen several rows of connections without deforming the cable glands.



Screwdrivers
Weidmüller screwdrivers allow for the perfect handling of all grip sizes. They ensure maximum torques and optimal transfer of the axial force. Available in all standard dimensions.

Cutting tools
Weidmüller is a specialist in the cutting of copper and aluminium cables. The range of products extends from cutting tools with direct force application for small cross-sections to cutting tools for large diameters.

Service and support

Service and support	Our expertise for your requirements	V.2
	Benefit from optimum support when using our products	V.4

Our expertise for your requirements
Service connects - worldwide

Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity. Our worldwide network of industrial managers for machine construction, process automation, energy and traffic engineering and for device manufacturers know the challenges you face and can support you in your specific applications.

Training course on technologies, applications and the detailed functionality of our products is available to you locally or at our headquarter in Germany. Our personal support can answer any questions reliably and expertly. Our online services are available 365 day a year around the clock to provide answers to your questions on our products - from user documentation through software to planning tools.

In short: Weidmüller's global service combines our expertise with your requirements.

Professional advice on planning
Our global network of industrial managers has extensive experience in automation technology and electrical connectivity. This expertise allows us to assist you with advice and planning support in order to work with you on resolving the everyday challenges of your applications.

Technology and application training
Industrial automation is moving towards smart production. It faces the challenges of new technologies and applications. Our varied range of training courses develops this knowledge further or provides more in-depth information on the handling of our products and solutions. Our seminars are modular and can be customised. We can train you and your employees in our academy, on your premises if you wish or online in our webinars at any time.

Customised installation
The challenges for the future are reducing costs and increasing efficiency. This requires intelligent, individual solutions which are tailored to your requirements. We can offer a highly qualified customer-specific production service in our application centre. Whether you need modified products, pre-assembled terminal rails or complete small cabinets: we produce the solutions developed for your application quickly and flexibly.

Technical appendix

Technical appendix	Directive 1999/92/EC	W.2
	ATEX directive 2014/34/EU	W.5
	IECEx scheme	W.6
	Hazardous areas guide	W.7
	IP class of protection	W.10
	Guidelines for selecting cable glands	W.12
	Ratings plate of an empty enclosure	W.14
	Type label for enclosure assemblies	W.15

Directive 1999/92/EC

Article 137 of the European Community Formation Treaty set out the minimum standards in order to improve workers' health and safety, this can also be put at risk by explosive atmospheres. An explosive atmosphere is a mixture of air and flammable gasses, vapours, mists or dust under atmospheric conditions where, following successful ignition, the burning process will propagate throughout the whole unburned mixture.

The directive 1999/92/EC was transferred into national law. Compliance with the minimum standards contained in this directive does not guarantee that all relevant national laws are met. It is possible for local regulators to introduce more stringent requirements.

The employer is required, according to the directive 1999/92/EC, to take measures to ensure the health and safety of the employees. One measure is the division of the area into zones where explosive atmospheres could be present.

Unless the risk analysis conducted by the employer indicates otherwise, all areas where an explosive atmosphere may be present must be equipped with devices and protective systems that meet the relevant category of the ATEX directive 2014/34/EU.
In particular in these zones the following categories of equipment should be used, as long as they are suitable for use with gases, vapours, mists or dusts:

- In Zone 0 or Zone 20: category 1 devices
- In Zone 1 or Zone 21: category 1 or category 2 devices
- In Zone 2 or Zone 22: category 1, category 2 or category 3 devices

Zoning according to the directive 1999/92/EC
Explosion risk areas are classified into zones according to likelihood of explosive atmospheres occurring and their persistence.

Zone 0
An area which has a potentially explosive atmosphere that is a mixture of air and **flammable gases, vapours or mists**. The mixture is either permanently present or frequently present over long periods of time.

Zone 1
An area in which during normal operations a potentially explosive atmosphere of air and **flammable gases, vapours or mists** can occasionally form.

Zone 2
An area for which during normal operations there is at most only a short-term occurrence of a potentially explosive atmosphere of mixtures of air and **flammables gases, vapours or mists**.

Zone 20
An area where a potentially explosive atmosphere is present in the form of a **flammable dust** cloud in the air. This cloud is either permanently present or frequently present over long periods of time.

Zone 21
An area where, during normal operations, a potentially explosive atmosphere in the form of a **flammable dust** cloud in the air can occasionally form.

Zone 22
An area where, during normal operations, a potentially explosive atmosphere in the form of a **flammable dust** cloud in the air is not normally present or only present for a short time.

For the risk assessment and as well as the zoning concept described above, Ex devices themselves can be considered in an alternative process which uses the equipment protection level (EPL). These protective levels determine the internal ignition risk of a device where the sort of applied protection does not play a role.

The system of EPL classifications (Equipment Protection Level) is shown below.

Firedamp (methane) risk mines (Group I)

EPL Ma
Equipment for installation in mining applications, offering a „very high" level of protection and which do not constitute a source of ignition during normal operation, or in the event of rarely occurring faults.

EPL Mb
Equipment for installation in a mine with a high level of rotection. Has sufficient safety to ensure that there is no source of ignition in the period of time between the outbreak of gas and the time the equipment is switched off.

Gases (Group II)

EPL Ga
Equipment for explosive-risk gas atmospheres with a very high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

EPL Gb
Equipment for explosive-risk gas atmospheres with a high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

EPL Gc
Equipment for explosive-risk gas atmospheres with an elevated level of protection. No source of ignition is present during normal operation and it can have additional safeguards to ensure that none is present during faults which happen regularly (e. g. failure of a lamp).

Dust (Group III)

EPL Da
Equipment for combustible dust atmospheres with a very high level of protection. No source of ignition is present during normal operation or in very rare faults.

EPL Db
Equipment for combustible dust atmospheres with a high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

EPL Dc
Equipment for combustible dust atmospheres with an elevated level of protection. No source of ignition is present during normal operation and it can have additional safeguards to ensure that none is present during faults which happen regularly (e. g. failure of a lamp).

Classification of explosive groups

Electrical devices for groups II and III are classified further as a function of the properties of the explosive atmosphere for which they are intended.

The danger of the atmosphere increases from IIA(IIIA) to IIC(IIIC) so that all equipment certified for use in IIC(IIIC) areas may also be used in IIA(IIIA) and IIB(IIIB) areas.

Classification of explosive groups

Group	Material, e.g.	Ignition energy	Group	Material
IIA	Propane	266 µJ	IIA	Flammable fluff
IIB	Ethylene	85 µJ	IIB	Non-conductive dust
IIC	Hydrogen	19 µJ	IIC	Conductive dust

Classification of zones and equipment categories

Combustible ingredients	Explosive atmospheres	Zone division	EPL safety level	Identification	
				Equipment group	Device category
Gas, mist, vapours/fumes (G / Gas)	permanent, long-term	Zone 0	Ga	II	1G
	occasionally	Zone 1	Gb	II	2G
	unlikely, short-term	Zone 2	Gc	II	3G
Dusts (D / Dust)	permanent, long-term	Zone 20	Da	II	1D
	occasionally	Zone 21	Db	II	2D
	unlikely, short-term	Zone 22	Dc	II	3D

ATEX directive 2014/34/EU

Article 96 of the Treaty on the Foundation of the European Union and Decision no. 768/2008/EU and Federal Gazette 96/309-356 govern the standardisation of legal regulations in the Member States. The ATEX directive 2014/34/EU sets out the basic requirements for health and safety protection as a directive following the new concept. It is aimed at manufacturers of equipment and components designed for used in potentially explosive atmosphere areas.

This directive had to be adopted without deviation into national law.
For Germany, this took the form of the passing of the Explosion Protection Ordinance (2015 ExVo 2015) of the Product Safety Act (ProdSG). It applies to all industrial potentially explosive areas, including mines, and also covers protection from dust-ignited explosions.

This directive sets out the requirements for the products depending on their equipment group and category. This is the category as set down by the directive 1999/92/EC applicable for each appropriate zone.

To prove conformity with the basic health and safety regulations, harmonised standards are used. If the requirements as laid out in the Official Journal of the EU are met, then it will be in compliance with the standard requirements for conformity (presumption of conformity). Various, mostly equivalent, protection types have been standardised harmoniously.

This conformity assessment process of the directives sets out different procedures. For device category 3, the manufacturer can perform the conformity assessment itself. For devices of categories 1 and 2, this conformity check must be carried out at a notified body in the form of a EC type-examination. In addition, quality assurance must be monitored for the devices of categories 1, 2 and 3.

Weidmüller has devices and components in its product range. Empty enclosures are components and are certified at the factory as such. Installing certified components does not create a certified equipment. To do this, additional tests must be carried out.

Weidmüller offers customer-specific devices available as certified solutions. The production of assembled enclosures is monitored by a notified body.

IECEx scheme

The IECEx scheme is an international certification scheme for products which meet the requirements of the international standards, e.g. the technical committee TC31's IEC standards.

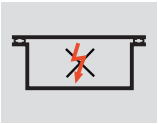
A Certificate of Conformity (CoC) refers to a test report (Ex Test Report ExTR) and on an assessment of the quality assessment report from the manufacturer (QAR).

The standards used for the production of the test report correspond almost entirely to the harmonised standards in Europe. Recent EN standards were initially adopted as IEC standards.

Protection concepts

The zoning described above provides the basis for the selection of the type of ignition protection. So, as an example, in the ATEX applicable areas, only ignition protection devices meeting Ex ia for Zone 0 (highest probability of an explosive atmosphere being present) are allowed.

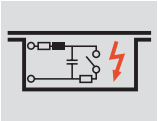
Increased safety Ex e
No sparks and a surface temperature limited to a safe level



Increased safety is for products where there are no sparks produced during normal operation or in case of a failure. The surface temperature of the relevant parts is limited to a value below the ignition temperature. Increased safety is achieved by reducing the current load and raising the isolation properties and by maintaining clearance and creepage distances above the value in an industrial application. The highest voltage permitted for this protection scheme is 11 kV (D.C. or A.C. rms).

This protection scheme is usually used for distribution cabinets..

Intrinsically safe Ex i
Limited to a safe level of ignition energy

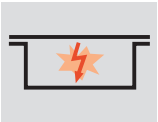


Intrinsic safety is for products where electrical energy which flows into the product, or is stored in the product, is not sufficient to ignite the surrounding explosive atmosphere. This also applies in fault conditions. The methods that achieve intrinsic safety mean that it is important that not only the devices installed in direct contact with the explosive atmosphere are constructed correctly, but also the electrical devices to which they are connected.

Intrinsically safe equipment and intrinsically safe parts of the associated equipment are divided into protection levels: ia (for zones 0, 1, and 2), ib (for zones 1 and 2), and ic (only for zone 2).

A typical application area are control and display circuits with low voltage and current.

Pressure-resistant Ex d encapsulation
Limits the explosion to the inside of the enclosure

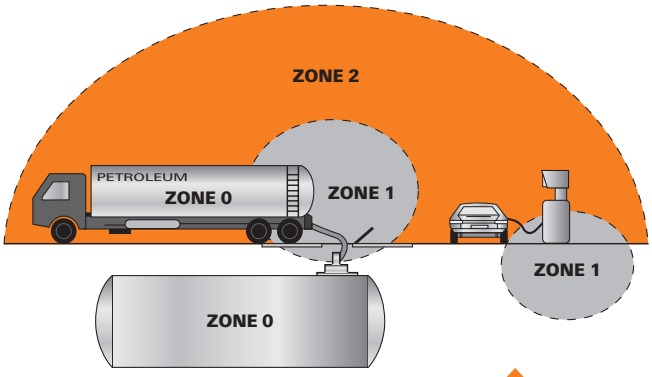


Pressure-resistant encapsulated enclosures are designed for devices where sparks are generated or which have hot surfaces which are a source of ignition during normal operation. Similarly, industrial components for use in potentially explosive atmospheres are often made suitable by encapsulating them in a pressure-resistant enclosure which otherwise could not be used.

The surrounding possibly explosive atmosphere can enter the enclosure and will produce an internal explosion during the equipment's lifespan.

The enclosure must therefore be stable enough to ensure that it is not deformed or destroyed by the pressure created. All connections of the enclosure are sized so that they cannot transmit an explosion from inside to the surrounding atmosphere. These connections are known as ignition gaps.

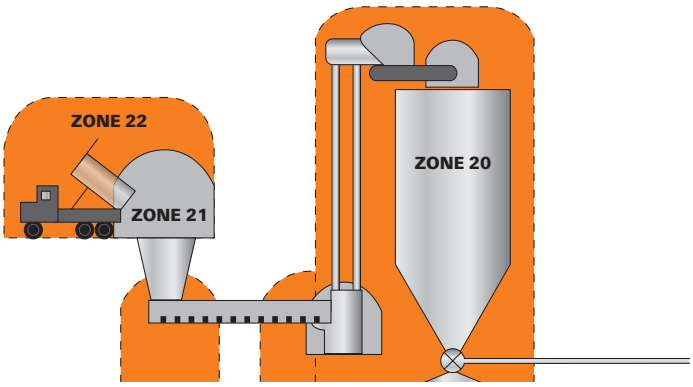
Area classification



Gas groups

IIA	e.g. Propane
IIB	e.g. Etyhlene
IIC	e.g. Hydrogen

Equipment group acc. to directive 2014/34/EU		Equipment category acc. to directive 2014/34/EU		Classification of hazardous areas acc. to directive 1999/92/EG	Group acc. to IEC/EN 60079-0	Combustible materials	Equipment protection level (EPL acc. to IEC/EN 60079-0)
I	Mining	M1	very high level of protection; remain functional at occurrence of Ex-atmosphere		I	Methane, Carbon dust	Ma
I		M2	high level of protection; de-energized at occurrence of Ex-atmosphere		I		Mb
II	Other industries (except mining)	1	very high level of protection; save even in an event of rare incidents	0	II	Gases, Vapours, Mists (G)	Ga
II		2	high level of protection; save even in an event of predictable failures	1	II		Gb
II		3	normal level of protection; save during normal operation	2	II		Gc
II	Other industries (except mining)	1	very high level of protection; save even in an event of rare incidents	20	III	Dust (D)	Da
II		2	high level of protection; save even in an event of predictable failures	21	III		Db
II		3	normal level of protection; save during normal operation	22	III		Dc



Dust groups

IIIA	Combustible flyings
IIIB	Non-conductive dust
IIIC	Conductive dust

Types of Protection

Types of protection for electrical equipment in explosive gas atmospheres

Type of protection	Symbol	Main application	Norm
increased safety	eb	junction boxes, control stations for installing Ex-components (with a different type of protection), squirrel-cage motors, light fittings	IEC 60079-7 EN 60079-7 ISA 60079-7
flameproof enclosures	db	switchgears, control stations, indicating equipment, control systems, motors, transformers, heating equipment, light fittings	IEC 60079-1 EN 60079-1 ISA 60079-1
pressurized enclosures	pxb pyb pzc	switchgear and control cabinets, analysers, large motors	IEC 60079-2 EN 60079-2 ISA 60079-2
intrinsic safety	ia ib ic	instrumentation technology, fieldbus technology, sensors, actuators [Ex ib] = associated electrical apparatus – installation in the safe area	IEC 60079-11 EN 60079-11 ISA 60079-11
		intrinsically safe systems	IEC 60079-25 EN 60079-25
		FISCO: fieldbus intrinsically-safe concept	IEC 60079-27 EN 60079-27 ISA 60079-27
oil immersion	ob	transformers, starting resistors	IEC 60079-6 EN 60079-6 ISA 60079-6
powder filling	qb	sensors, display units, electronic ballasts, transmitters	IEC 60079-5 EN 60079-5 ISA 60079-5
encapsu-lation	ma mb mc	switchgear with small capacity, control and signalling units, display units, sensors	IEC 60079-18 EN 60079-18 ISA 60079-18
type of protection "n"	nAc nCc nRc	all electrical equipment for Zone 2 nA = non-sparking device nC = sparking devices and components nL = energy limited apparatus nR = restricted breathing enclosures	IEC 60079-15 EN 60079-15 ISA 60079-15
optical radiation	op_a op_b op_c	op is = inherently safe optical radiation op pr = protected optical radiation op sh = optical radiation interlock	IEC 60079-28 EN 60079-28

Types of protection for electrical equipment in explosive dust atmospheres

Type of protection	Symbol	Main application	Norm
protection by enclosures	ta tb tc	switchgear, control stations, junction boxes, control boxes, motors, light fittings	IEC 60079-31 EN 60079-31 ISA 60079-31
pressuri-zation	pb pc	switchgear and control cabinets, motors	IEC 60079-2 EN 60079-2 ISA 60079-2
intrinsic safety	ia ib ic	instrumentation technology, fieldbus technology, sensors, actuators [Ex ib] = associated electrical apparatus – installation in the safe area	IEC 60079-11 EN 60079-11 ISA 60079-11
encapsu-lation	ma mb mc	switchgear with small capacity, control and signalling units, display units, sensors	IEC 60079-18 EN 60079-18 ISA 60079-18

Temperature class

Classification of the maximum surface temperatures into temperature classes for eletrical equipment of group II

Temperature class ATEX/IECEx	Temperature class NEC/UL (AEx)	Maximum surface temperature	
T1	T1	450 °C	842 °F
T2	T2	300 °C	572 °F
	T2A	280 °C	536 °F
	T2B	260 °C	500 °F
	T2C	230 °C	446 °F
	T2D	215 °C	419 °F
T3	T3	200 °C	392 °F
	T3A	180 °C	356 °F
	T3B	165 °C	329 °F
	T3C	160 °C	320 °F
T4	T4	135 °C	275 °F
	T4A	120 °C	248 °F
T5	T5	100 °C	212 °F
T6	T6	85 °C	185 °F
IEC/DIN EN 60079-0	NEC500ff	°C	°F

Certifications worldwide

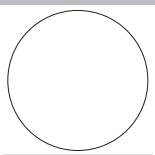
IP class of protection to DIN EN 60529

The ingress protection class or IP rating is indicated by a code consisting of the two letters IP and two digits representing the class of protection.

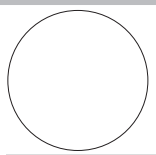
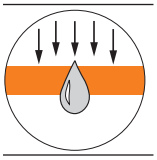
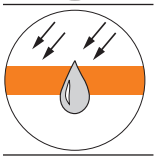
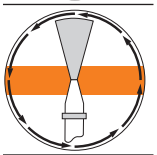
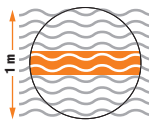
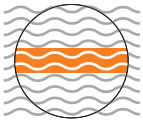
Example: **I P 6 5**

2nd digit: protection from liquids
1st digit: protection from solid bodies

Protection against intrusion of external particle matter (1st digit)

Code digit		
0		No protection
1		Protection against ingress of large solid bodies with diameter > 50 mm. (Protection to prevent dangerous parts being touched with the back of the hand.)
2		Protection against ingress of large solid bodies with diameter > 12.5 mm. (Protection to prevent dangerous parts being touched with the fingers.)
3		Protection against ingress of large solid bodies with diameter > 2.5 mm. (Protection to prevent dangerous parts being touched with a tool.)
4		Protection against ingress of large solid bodies with diameter > 1 mm. (Protection to prevent dangerous parts being touched with a piece of wire.)
5		Protection against harmful deposits of dust, which cannot enter in an amount sufficient to interfere with satisfactory operation.
6		Complete protection against ingress of dust.

Protection against penetration of liquids (2nd digit)

Code digit		
0		No protection
1		Protection against drops of condensed water falling vertically.
2		Protection against drops of liquid falling at an angle of 15° with respect to the vertical.
3		Protection against drops of liquid falling at an angle of 60° with respect to the vertical.
4		Protection against liquids splashed from any direction.
5		Protection against water jets projected by a nozzle from any direction.
6		Protection against water from heavy sea on ships'decks.
7		Protection against immersion in water under defined conditions of pressure and time.
8		Protection against indefinite immersion in water under defined conditions of pressure (which must be agreed between manufacturer and user and must be more adverse than number 7).

Definition of the protection degrees according to NEMA, UL and CSA

Type	NEMA	UL	CSA
Designation	National Electrical Manufacturers Association NEMA 250-1991	Underwriters Laboratories Inc. UL 50 und UL 508	Canadian Standards Association CSA-C22.2 No. 94-M91
Type 1	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies.	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies.	Enclosure for general use. Protection against accidental contact with live components.
Type 2	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies and water.	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies and water.	Enclosure for indoor use. Protection against non-corrosive drops/splashes of liquid and foreign bodies.
Type 3	Enclosure predominately for indoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.	Enclosure predominately for indoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.	Enclosure for indoor or outdoor use. Protection against penetration by rainfall and snow as well as damage due to ice formation.
Type 3R	Enclosure predominately for indoor use. Protection against rain and snow as damage due to ice-formation.	Enclosure predominately for indoor use. Protection against rain and snow as damage due to ice-formation.	Enclosure for indoor or outdoor use. Protection against penetration by rainfall and snow as well as damage due to ice formation.
Type 3S	Enclosure predominately for indoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.	Enclosure predominately for indoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.	Enclosure for indoor or outdoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.
Type 4	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, snow, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.
Type 4X	Enclosure for indoor or outdoor use. Protection against corrosion, rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against corrosion, rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.
Type 6	Enclosure for indoor or outdoor use. Protection against hose water as well as against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against hose water as well as against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.
Type 12	Enclosure for indoor use. Protection against dust accumulation, foreign bodies and non-corrosive drops of liquids.	Enclosure for indoor use. Protection against dust accumulation, foreign bodies and non-corrosive drops of liquids.	Enclosure for indoor or outdoor use. Protection against a build-up of dust, fibres and foreign bodies as well as against non-corrosive liquid drips, without pre-formed openings.
Type 13	Enclosure for indoor use. Protection against dust build-up, splashing water, oil, and non-corrosive coolants.	Enclosure for indoor use. Protection against dust build-up, splashing water, oil, and non-corrosive coolants.	Enclosure for indoor or outdoor use. Protection against a build-up of dust, fibres and foreign bodies as well as against non-corrosive liquid sprays including oil and coolants.

Guidelines for selecting cable glands

The sizes quoted were based on stranded cables. Please note the clamping range for the cable gland you have selected.

Cross-section	No. of conductors	Cable ø approx. mm	Metric cable glands								PG							
0.5 mm²	2	5.7 - 8.7	12	16	20						9							
AWG 20	3	6.0 - 9.0	12	16	20						9							
	4	6.7 - 9.7	12	16	20						9	11						
	5	7.2 - 10.2		16	20						9	11	13.5	16				
	6	7.6 - 10.6		16	20						9	11	13.5	16				
	7	8.0 - 10.6		16	20						9	11	13.5	16				
	8	9.4 - 12.8		16	20	25					9	11	13.5	16				
	10	9.4 - 12.8		16	20	25					9	11	13.5	16				
	12	9.7 - 12.9		16	20	25					9	11	13.5	16				
	14	10.2 - 13.4			20	25						11	13.5	16				
	16	10.7 - 13.9			20	25						11	13.5	16				
	21	12.3 - 15.1			20	25							13.5	16	21			
	24	13.5 - 16.7				25	32						13.5	16	21			
	30	14.3 - 17.5				25	32							16	21			
	35	16.0 - 18.6				25	32								21			
	40	16.6 - 19.2				25	32	40							21			
	52	19.2 - 21.6					32	40							21	29		
	61	20.3 - 23.1					32	40							21	29		
	80	22.9 - 25.7					32	40								29	36	
	100	26.4 - 29.6						40	50							29	36	
0.75 mm²	2	6.8 - 9.8	12	16	20						9	11						
AWG 18	3	7.2 - 9.7	12	16	20						9	11						
	4	7.9 - 10.3	12	16	20						9	11						
	5	8.9 - 10.9		16	20						9	11	13.5	16				
	6	8.9 - 12.3		16	20	25					9	11	13.5	16				
	7	9.6 - 12.3		16	20	25					9	11	13.5	16				
	8	10.4 - 13.8			20	25						11	13.5	16				
	9	10.7 - 13.9			20	25						11	13.5	16				
	10	10.4 - 13.8			20	25						11	13.5	16				
	12	10.7 - 13.9			20	25						11	13.5	16				
	15	12.3 - 13.5			20	25							13.5	16				
	18	13.0 - 16.2				25	32						13.5	16	21			
	21	13.6 - 16.8				25	32						13.5	16	21			
	25	15.9 - 18.5				25	32								21	29		
	32	17.1 - 19.7				25	32								21	29		
	40	19.0 - 21.4					32	40							21	29		
	50	21.3 - 24.1					32	40							21	29		
	61	22.6 - 25.4						40							21	29	36	
	80	26.1 - 29.3						40	50							29	36	
	100	29.4 - 33.0						40	50								36	
1 mm²	2	7.1 - 10.1	12	16	20						9	11						
AWG 16-18	3	7.5 - 10.1	12	16	20						9	11						
	4	8.4 - 10.7		16	20						9	11	13.5					
	5	9.2 - 11.4		16	20	25					9	11	13.5	16				
	6	9.2 - 12.6		16	20	25					9	11	13.5	16				
	7	9.2 - 12.6		16	20	25					9	11	13.5	16				
	8	11.0 - 14.4			20	25						11	13.5	16	21			
	9	11.8 - 15.2			20	25	32					11	13.5	16	21			
	10	11.0 - 14.4			20	25	32					11	13.5	16	21			
	12	11.8 - 14.6			20	25	32					11	13.5	16	21			
	14	12.4 - 15.2			20	25	32						13.5	16	21			
	16	13.0 - 16.2				25	32						13.5	16	21			
	18	13.7 - 16.9				25	32						13.5	16	21			
	20	14.4 - 17.6				25	32	40						16	21			
	24	16.5 - 19.1				25	32	40							21	29		
	25	16.9 - 19.5				25	32	40							21	29		
	34	19.4 - 21.8					32	40							21	29		
	48	22.0 - 24.8						40							21	29		
	56	23.2 - 26.0						40	50						21	29	36	
	61	24.5 - 27.2						40	50							29	36	
	80	27.7 - 30.9						40	50								36	
	100	31.8 - 35.2						40	50	63							36	42

Cross-section	No. of conductors	Cable ø approx. mm	Metric cable glands								PG							
1.5 mm²	2	8.0 - 11.0	12	16	20						9	11	13.5	16				
AWG 16	3	8.7 - 11.0		16	20	25					9	11	13.5	16				
	4	9.7 - 11.8		16	20	25					9	11	13.5	16				
	5	10.8 - 13.0			20	25						11	13.5	16				
	6	10.8 - 14.2			20	25						11	13.5	16				
	7	10.8 - 14.2			20	25						11	13.5	16				
	8	13.2 - 16.6				25	32						13.5	16	21			
	11	13.6 - 16.8				25	32						13.5	16	21			
	12	17.6 - 16.8				25	32						13.5	16	21			
	14	14.4 - 17.6				25	32							16	21			
	16	15.8 - 18.4				25	32							16	21			
	18	16.6 - 19.2				25	32								21	29		
	20	17.4 - 20.0				25	32	40							21	29		
	25	20.2 - 23.0					32	40							21	29		
	32	23.8 - 24.5						40								29	36	
	34	22.6 - 25.4						40								29	36	
	42	25.8 - 29.0						40	50							29	36	
	50	27.0 - 30.2						40	50							29	36	
	56	27.8 - 31.0						40	50							29	36	
	61	28.6 - 31.8						40	50								36	
	80	33.0 - 36.4							50	63							36	42
	90	34.6 - 37.6							50	63							36	42
	100	37.8 - 41.4							50	63								42
2.5 mm²	2	9.8 - 12.8		16	20	25					9	11	13.5	16				
AWG 12-14	3	10.6 - 13.4			20	25						11	13.5	16				
	4	11.7 - 14.4			20	25						11	13.5	16				
	5	13.0 - 16.4			20	25	32						13.5	16	21			
	6	13.3 - 16.7				25	32						13.5	16	21			
	7	13.3 - 16.7				25	32						13.5	16	21			
	8	17.4 - 20.8				25	32	40							21	29		
	11	18.0 - 20.6				25	32	40							21	29		
	16	20.6 - 23.4					32	40							21	29		
	18	21.7 - 24.5						40								29	36	
	25	26.4 - 29.6						40	50							29	36	
	34	31.3 - 33.1						40	50								36	42
	50	37.0 - 39.4							50	63								42
	61	39.0 - 41.5							50	63								42
4 mm²	2	10.7 - 14.1			20	25						11	13.5	16	21			
AWG 10-12	4	13.0 - 16.4				25	32						13.5	16	21			
	5	14.3 - 17.7				25	32							16	21			
	7	16.2 - 19.6				25	32								21	29	36	
	11	ca. 24.5						40								29	36	

Note:
The values can differ between manufacturers. These figures should be considered as rough guidelines.

Ratings plate of an Ex-certified empty enclosure

1 Number of the notified body

2 Part No.

3 Part designation

4 Ex marking

5 Equipment group

6 Device category

7 • G Gas (gas)
• D flammable dust

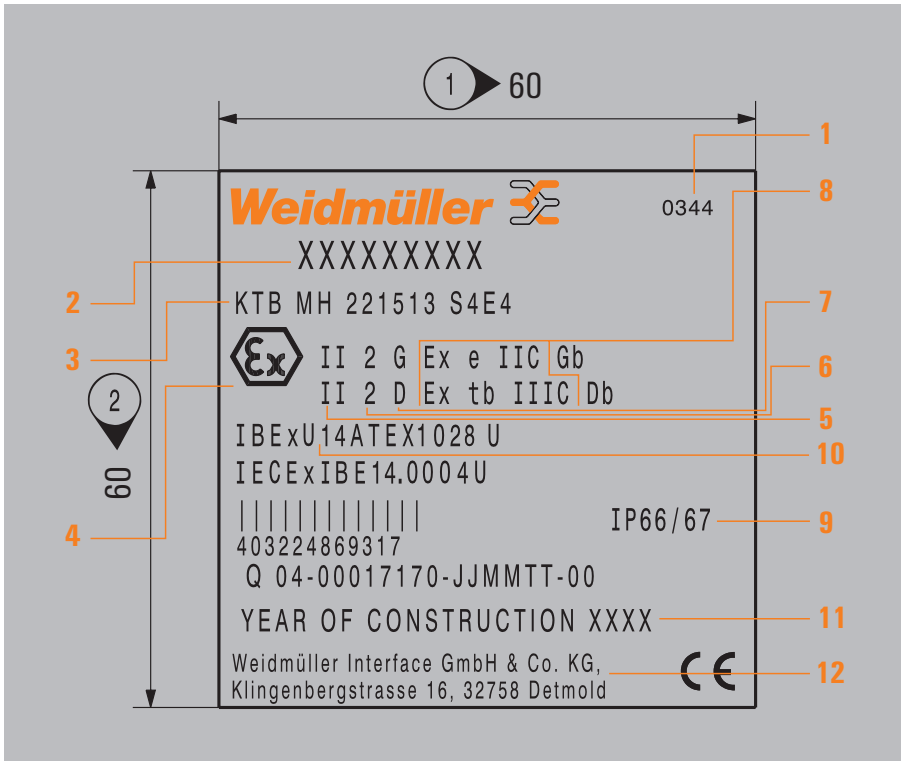
8 Explosion protection type

9 IP ingress protection class (DIN EN 60529)

10 EC type-examination certificate

11 Year of manufacture

12 Name and address of manufacturer



Type label for enclosure assemblies

1 Certification conditions and logo

2 Name and address of manufacturer

3 Approval number

4 Part designation

5 Part No.

6 Serial number

7 Year of Contruction

8 IP ingress protection class

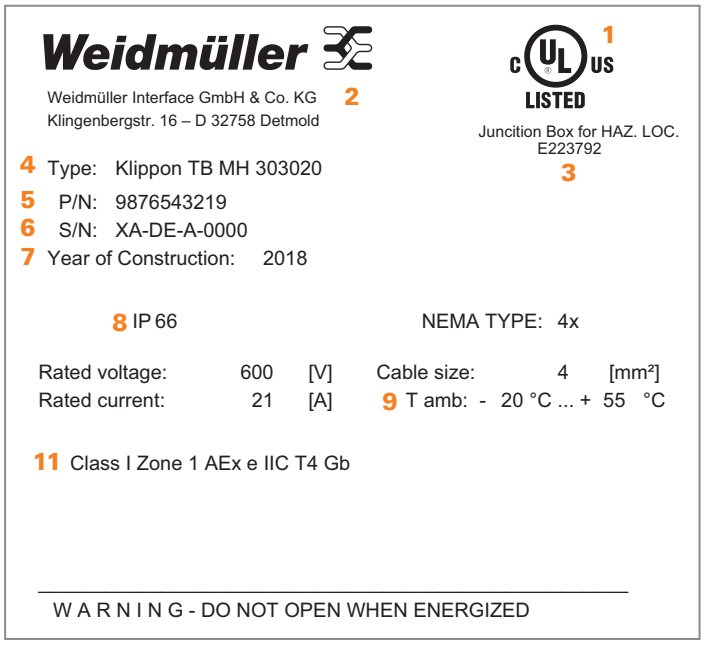
9 Ambient temperature

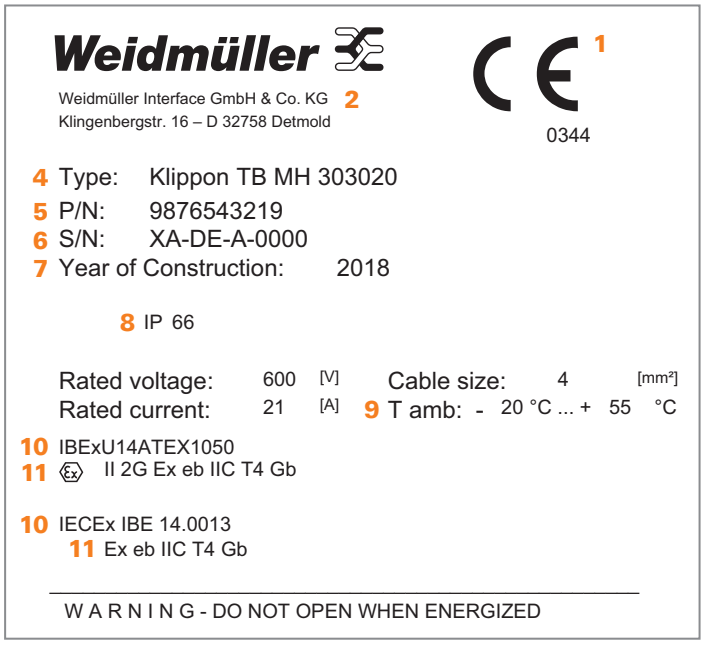
10 Approval number

11 Ex marking
Example:

Ex II 2G Ex ia IIC T4 Gb

- Hexagon Ex for ATEX
- Group Mining or Not Mining
- Equipment Group
- G = Gas, D=Dust
- Ex = Explosion Protection
- Kind of protection
- Protection Level
- Gas / Dust Group
- T-Class / Max. Surface temperature Dust
- T-Class No.
- EPL Equipment Protection Level application





Index

Index	Index Type	X.2
	Index Order No.	X.11
	Addresses worldwide	X.20

Type	Order No.	Page
A		
ADAP EX M20-M16	1737560000	C.153
ADAP EX M20-M16	1737560000	C.154
ADAP EX M20-M16	1737560000	C.155
ADAP EX M20-M16	1737560000	C.156
B		
BK 4/E	7906080000	C.116
C		
CABTITE BP 10MM PA	2652380000	E.8
CABTITE BP 12MM PA	2652400000	E.8
CABTITE BP 13MM PA	2652410000	E.8
CABTITE BP 14MM PA	2652420000	E.8
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CABTITE BP 5MM PA	2652330000	E.8
CABTITE BP 6MM PA	2652340000	E.8
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CABTITE BP 8MM PA	2652360000	E.8
CABTITE BP 9MM PA	2652370000	E.8
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CABTITE BSE LRG GY	2584520000	E.4
CABTITE BSE SML BK	2584790000	E.4
CABTITE BSE SML GY	2583350000	E.4
CABTITE CGS M20 BK	2584200000	E.7
CABTITE CGS M25 BK	2584180000	E.7
CABTITE CGS M32 BK	2584160000	E.7
CABTITE CGS M40 BK	2584150000	E.7
CABTITE CGS M50 BK	2584130000	E.7
CABTITE CGS M63 BK	2584120000	E.7
CABTITE CR 10/6 EMV	2583930000	E.8
CABTITE CR 16/8 EMV	2583910000	E.8
CABTITE CR 24/10 EMV	2583890000	E.8
CABTITE CR 4/1 EMV	2583950000	E.8
CABTITE CSE 2-11 SML BK	2583510000	E.4
CABTITE CSE 7-24 LRG BK	2583500000	E.4
CABTITE FR 10/6 BK	2583480000	E.5
CABTITE FR 10/6 BK SET	2583760000	E.5
CABTITE FR 16/8 BK	2583470000	E.6
CABTITE FR 16/8 BK SET	2583740000	E.6
CABTITE FR 24/10 BK	2583800000	E.6
CABTITE FR 24/10 BK SET	2583720000	E.6
CABTITE FR 4-1 BK	2583490000	E.5
CABTITE FR 4-1 BK SET	2583780000	E.5
CABTITE FRL 10/6 BK	2584240000	E.5
CABTITE FRL 16/8 BK	2584220000	E.6
CABTITE FRL 24/10 BK	2584210000	E.6
CABTITE FRL 4-1 BK	2584260000	E.5
CABTITE GI H BK	2584270000	E.7
CABTITE GI I BK	2584320000	E.7
CABTITE GI T BK	2584300000	E.7
CABTITE GI X BK	2584290000	E.7
CABTITE LNS M20 BK	2584110000	E.7
CABTITE LNS M25 BK	2584090000	E.7
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CABTITE LNS M40 BK	2584050000	E.7
CABTITE LNS M50 BK	2584030000	E.7
CABTITE LNS M63 BK	2584010000	E.7
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CABTITE SE 1.5-2 SML BK	2584780000	E.4
CABTITE SE 1.5-2 SML GY	2583360000	E.4
CABTITE SE 1/ASI SML BK	2583530000	E.4
CABTITE SE 1/ASI SML GY	2584810000	E.4
CABTITE SE 10-11 SML BK	2584060000	E.4
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CABTITE SE 11-12 SML BK	2584040000	E.4
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CABTITE SE 12-13 SML BK	2584020000	E.4
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CABTITE SE 13-14 SML BK	2584000000	E.4
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CABTITE SE 14-15 LRG BK	2583880000	E.4
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CABTITE SE 14-15 SML BK	2583980000	E.4
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CABTITE SE 15-16 LRG BK	2583860000	E.4
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CABTITE SE 15-16 SML BK	2583960000	E.4
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CABTITE SE 16-17 LRG BK	2583850000	E.4
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CABTITE SE 17-18 LRG BK	2583840000	E.4
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CABTITE SE 18-19 LRG BK	2583830000	E.4
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CABTITE SE 30-31 LRG GY	2584360000	E.4
CABTITE SE 31-32 LRG BK	2583640000	E.4
CABTITE SE 31-32 LRG GY	2584340000	E.4
CABTITE SE 32-33 LRG BK	2583630000	E.4
CABTITE SE 32-33 LRG GY	2584920000	E.4
CABTITE SE 33-34 LRG BK	2595510000	E.4
CABTITE SE 33-34 LRG GY	2584910000	E.4
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CABTITE SE 34-35 LRG GY	2595530000	E.4
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CABTITE SE 4/4-5 SML BK	2583560000	E.4
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CABTITE SE 5-6 SML GY	2583450000	E.4
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CABTITE SE 6-7 SML GY	2583460000	E.4
CABTITE SE 7-8 SML BK	2584670000	E.4
CABTITE SE 7-8 SML GY	2584660000	E.4
CABTITE SE 8-9 SML BK	2584330000	E.4
CABTITE SE 8-9 SML GY	2584650000	E.4
CABTITE SE 9-10 SML BK	2584080000	E.4
CABTITE SE 9-10 SML GY	2584630000	E.4
CABTITE TOOL ATSE PA	2637360000	E.5
CABTITE TOOL ATSE PA	2637360000	E.6
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DAE M12 SS	1868550000	C.170
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DAE M12 SS	1868550000	C.172
DAE M12 SS	1868550000	C.173
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DAE M12 SS	1868550000	C.180
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DAE M12 SS	1868550000	C.182
DAE M12 SS	1868550000	C.183
DAE M12 SS	1868550000	C.185
DAE M12 SS	1868550000	C.186
DAE M12 SS	1868550000	C.187
DAE M12 SS	1868550000	D.60
DESC M6X14 KTB SET	1253230000	C.15
DESC M6X14 KTB SET	1253230000	C.16
DESC M6X14 KTB SET	1253230000	C.17
DESC M6X14 KTB SET	1253230000	C.18
DESC M6X14 KTB SET	1253230000	C.19
DESC M6X14 KTB SET	1253230000	C.20
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DESC M6X14 KTB SET	1253230000	C.22
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DESC M6X14 KTB SET	1253230000	C.26
DESC M6X14 KTB SET	1253230000	C.27
DESC M6X14 KTB SET	1253230000	C.28
DESC M6X14 KTB SET	1253230000	C.29
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DESC M6X14 KTB SET	1253230000	C.31
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DESC M6X14 KTB SET	1253230000	C.47
DOHA KTB A4 S2 R	1252730000	C.26
DOHA KTB A4 S2 R	1252730000	C.27
DOHA KTB A4 S2 R	1252730000	C.28
DOHA KTB A4 S2 R	1252730000	C.29
DOHA KTB A4 S2 R	1252730000	C.30
DOHA KTB A4 S2 R	1252730000	C.31
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DOHA KTB A4 S2 R	1252730000	C.33
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DOHA KTB A4 S2 R	1252730000	C.36
DOHA KTB A4 S2 R	1252730000	C.47
DOHA KTB A5 S2 R	1252750000	C.24
DOHA KTB A5 S2 R	1252750000	C.25
DOHA KTB A5 S2 R	1252750000	C.26
DOHA KTB A5 S2 R	1252750000	C.27
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DOHA KTB A5 S2 R	1252750000	C.36
DOHA KTB A6 S2 R	1252780000	C.16
DOHA KTB A6 S2 R	1252780000	C.17
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DOHA KTB A6 S2 R	1252780000	C.19
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DOHA KTB A6 S2 R	1252780000	C.21
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DOHA KTB A6 S2 R	1252780000	C.24
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DOHA KTB A6 S2 R	1252780000	C.27
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DOHA KTB A6 S2 R	1252780000	C.30
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DOHA KTB A6 S2 R	1252780000	C.32
DOHA KTB A6 S2 R	1252780000	C.33
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DOHA KTB A6 S2 R	1252780000	C.35
DOHA KTB A6 S2 R	1252780000	C.36
DOHA KTB A6 S2 R	1252780000	C.45
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DOHA KTB A6 S2 R	1252780000	C.47
E		
EA-RING MS/M 16	1736480000	D.49
EA-RING MS/M 20	1736490000	D.49
EA-RING MS/M 25	1736500000	D.49
EA-RING MS/M 32	1736510000	D.49
EA-RING MS/M 40	1736520000	D.49
EA-RING MS/M 50	1736530000	D.49
EA-RING MS/M 63	1736540000	D.49
EA-RING MS/M 75	1736550000	D.49
EA-RING MS/M16 SC	0930710001	D.49

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EA-RING MS/M20 SC	0930710002	D.49
EA-RING MS/M25 SC	0930710003	D.49
EA-RING MS/M32 SC	0930710004	D.49
EA-RING MS/M40 SC	0930710005	D.49
EA-RING MS/M50 SC	0930710006	D.49
EA-RING MS/M63 SC	0930710007	D.49
EA-RING MS/M75 SC	0930710008	D.49

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FKSC M4X6 D8/SW2	1567480000	C.170
FKSC M4X6 D8/SW2	1567480000	C.171
FKSC M4X6 D8/SW2	1567480000	C.172
FKSC M4X6 D8/SW2	1567480000	C.173
FKSC M4X6 D8/SW2	1567480000	C.174
FKSC M4X6 D8/SW2	1567480000	C.178
FKSC M4X6 D8/SW2	1567480000	C.179
FKSC M4X6 D8/SW2	1567480000	C.180
FKSC M4X6 D8/SW2	1567480000	C.181
FKSC M4X6 D8/SW2	1567480000	C.182
FKSC M4X6 D8/SW2	1567480000	C.183
FKSC M4X6 D8/SW2	1567480000	C.185
FKSC M4X6 D8/SW2	1567480000	C.186
FKSC M4X6 D8/SW2	1567480000	C.187
FKSC M6X8 D9/SW3	0642600000	C.15
FKSC M6X8 D9/SW3	0642600000	C.16
FKSC M6X8 D9/SW3	0642600000	C.17
FKSC M6X8 D9/SW3	0642600000	C.18
FKSC M6X8 D9/SW3	0642600000	C.19
FKSC M6X8 D9/SW3	0642600000	C.20
FKSC M6X8 D9/SW3	0642600000	C.21
FKSC M6X8 D9/SW3	0642600000	C.22
FKSC M6X8 D9/SW3	0642600000	C.23
FKSC M6X8 D9/SW3	0642600000	C.24
FKSC M6X8 D9/SW3	0642600000	C.25
FKSC M6X8 D9/SW3	0642600000	C.26
FKSC M6X8 D9/SW3	0642600000	C.27
FKSC M6X8 D9/SW3	0642600000	C.28
FKSC M6X8 D9/SW3	0642600000	C.29
FKSC M6X8 D9/SW3	0642600000	C.30
FKSC M6X8 D9/SW3	0642600000	C.31
FKSC M6X8 D9/SW3	0642600000	C.32
FKSC M6X8 D9/SW3	0642600000	C.33
FKSC M6X8 D9/SW3	0642600000	C.34
FKSC M6X8 D9/SW3	0642600000	C.35
FKSC M6X8 D9/SW3	0642600000	C.36
FKSC M6X8 D9/SW3	0642600000	C.44
FKSC M6X8 D9/SW3	0642600000	C.45
FKSC M6X8 D9/SW3	0642600000	C.46
FKSC M6X8 D9/SW3	0642600000	C.47
FKSC M6X8 D9/SW3	0642600000	C.132
FKSC M6X8 D9/SW3	0642600000	C.133
FKSC M6X8 D9/SW3	0642600000	C.134
FKSC M6X8 D9/SW3	0642600000	C.135
FKSC M6X8 D9/SW3	0642600000	C.136
FKSC M6X8 D9/SW3	0642600000	C.137
FKSC M6X8 D9/SW3	0642600000	C.138
FKSC M6X8 D9/SW3	0642600000	C.139
FKSC M6X8 D9/SW3	0642600000	C.140
FKSC M6X8 D9/SW3	0642600000	C.141
FKSC M6X8 D9/SW3	0642600000	C.142
FKSC M6X8 D9/SW3	0642600000	C.143
FKSC M6X8 D9/SW3	0642600000	C.144
FKSC M6X8 D9/SW3	0642600000	C.145
FKSC M6X8 D9/SW3	0642600000	C.146
FKSC M6X8 D9/SW3	0642600000	C.147
FKSC M6X8 D9/SW3	0642600000	C.148
FPC 20/20/13 7035	9535690000	C.184
FPC 20/20/13 7035	9535690000	C.185
FPC 20/20/13 TRSP	9535680000	C.184
FPC 20/20/13 TRSP	9535680000	C.185
FPC 20/30/13 7035	9535710000	C.184
FPC 20/30/13 7035	9535710000	C.185
FPC 20/30/13 TRSP	9535700000	C.184
FPC 20/30/13 TRSP	9535700000	C.185
FPC 20/40/13 7035	9535730000	C.184
FPC 20/40/13 7035	9535730000	C.186
FPC 20/40/13 TRSP	9535720000	C.184
FPC 20/40/13 TRSP	9535720000	C.186
FPC 30/30/13 7035	9535750000	C.184
FPC 30/30/13 7035	9535750000	C.186
FPC 30/30/13 TRSP	9535740000	C.184
FPC 30/30/13 TRSP	9535740000	C.186
FPC 30/40/13 7035	9535770000	C.184
FPC 30/40/13 7035	9535770000	C.187
FPC 30/40/13 TRSP	9535760000	C.184
FPC 30/40/13 TRSP	9535760000	C.187
FPC 40/60/13 7035	9535810000	C.184
FPC 40/60/13 7035	9535810000	C.187
FPC 40/60/13 TRSP	9535820000	C.184
FPC 40/60/13 TRSP	9535820000	C.187

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GFSC M5x10 TX20 SET	1274150000	C.15
GFSC M5x10 TX20 SET	1274150000	C.16
GFSC M5x10 TX20 SET	1274150000	C.17
GFSC M5x10 TX20 SET	1274150000	C.18
GFSC M5x10 TX20 SET	1274150000	C.19
GFSC M5x10 TX20 SET	1274150000	C.20
GFSC M5x10 TX20 SET	1274150000	C.21
GFSC M5x10 TX20 SET	1274150000	C.22
GFSC M5x10 TX20 SET	1274150000	C.23
GFSC M5x10 TX20 SET	1274150000	C.24
GFSC M5x10 TX20 SET	1274150000	C.25
GFSC M5x10 TX20 SET	1274150000	C.26
GFSC M5x10 TX20 SET	1274150000	C.27
GFSC M5x10 TX20 SET	1274150000	C.28
GFSC M5x10 TX20 SET	1274150000	C.29
GFSC M5x10 TX20 SET	1274150000	C.30
GFSC M5x10 TX20 SET	1274150000	C.31
GFSC M5x10 TX20 SET	1274150000	C.32
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GFSC M5x10 TX20 SET	1274150000	C.34
GFSC M5x10 TX20 SET	1274150000	C.35
GFSC M5x10 TX20 SET	1274150000	C.36
GFSC M5x10 TX20 SET	1274150000	C.52
GFSC M5x10 TX20 SET	1274150000	C.53
GFSC M5x10 TX20 SET	1274150000	C.54
GFSC M5x10 TX20 SET	1274150000	C.55
GFSC M5x10 TX20 SET	1274150000	C.56
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GFSC M5x10 TX20 SET	1274150000	C.62
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GWDR M12-PO	1777920000	D.45
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GWDR M16-PO	1777930000	D.45
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GWDR M63-NP	1736290000	D.46
GWDR M63-PO	1777990000	D.45
GWDR PG11-NP	1719560000	D.46
GWDR PG11-PO	1719460000	D.45
GWDR PG13,5-NP	1719570000	D.46
GWDR PG13,5-PO	1719470000	D.45
GWDR PG16-NP	1719580000	D.46
GWDR PG16-PO	1719480000	D.45
GWDR PG21-NP	1719590000	D.46
GWDR PG21-PO	1719490000	D.45
GWDR PG29-NP	1719600000	D.46
GWDR PG29-PO	1719500000	D.45
GWDR PG36-NP	1719610000	D.46
GWDR PG36-PO	1719510000	D.45
GWDR PG42-NP	1719620000	D.46
GWDR PG42-PO	1719520000	D.45
GWDR PG48-NP	1719630000	D.46
GWDR PG48-PO	1719530000	D.45
GWDR PG7-NP	1719540000	D.46
GWDR PG7-PO	1719440000	D.45
GWDR PG9-NP	1719550000	D.46
GWDR PG9-PO	1719450000	D.45

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HG FPC	9535990000	C.185
HG FPC	9535990000	C.186
HG FPC	9535990000	C.187
HG K+POK	1580360000	C.100
HG K+POK	1580360000	C.102
HG K+POK	1580360000	C.104
HG K+POK	1580360000	C.106
HG K+POK	1580360000	C.107
HG K+POK	1580360000	C.108
HG K+POK	1580360000	C.109
HG K+POK	1580360000	C.110
HG K+POK	1580360000	C.111
HG K+POK	1580360000	C.112
HG K+POK	1580360000	C.113
HG K+POK	1580360000	C.114
HG MPC	9535590000	C.178
HG MPC	9535590000	C.179
HG MPC	9535590000	C.180
HG MPC	9535590000	C.181
HG MPC	9535590000	C.182
HG MPC	9535590000	C.183

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KDSU M20 BN O NI 2 G20S	1911390000	D.27
KDSU M20 BS O NI 1 G16	0930001221	D.26
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KDSU M20 BS O NI 1 G20	0930021221	D.26
KDSU M20 BS O NI 1 G20	0930021221	D.28
KDSU M20 BS O NI 1 G20S	0930011223	D.26
KDSU M20 BS O NI 1 G20S	0930011223	D.28
KDSU M20 BS O NI 2 G16	0930001222	D.26
KDSU M20 BS O NI 2 G16	0930001222	D.28
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KDSU M25 BN O NI 2 G25	1911420000	D.27
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KDSU M32 BN O NI 1 G32	1083340000	D.27
KDSU M32 BN O NI 2 G32	1911430000	D.27
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KDSU M63 BN O NI 2 G63S	1911480000	D.27
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KDSW M75 BN L NI 2 G75	1075020000	D.31
KDSW M75 BN L NI 2 G75S	1074990000	D.31
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KDSW M75 BN O NI 2 G75S	1075260000	D.29
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KDSX M20 BS O NI 2 G16	1135920000	D.32
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KDSX M25 BS O NI 1 G25	1135970000	D.32
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KDSX M32 BS O NI 1 G32	1135990000	D.32
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KDSX M40 BS O NI 2 G40	1136020000	D.32
KDSX M50 BS O NI 1 G50	1136050000	D.32
KDSX M50 BS O NI 1 G50S	1136030000	D.32
KDSX M50 BS O NI 2 G50	1136060000	D.32
KDSX M50 BS O NI 2 G50S	1136040000	D.32
KDSX M63 BS O NI 1 G63	1136090000	D.32
KDSX M63 BS O NI 1 G63S	1136070000	D.32
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KDSX M63 BS O NI 2 G63S	1136080000	D.32
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KDSX M75 BS O NI 2 G75	1136150000	D.32
KDSX M75 BS O NI 2 G75S	1136130000	D.32
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KEBI QL 302015 S2B1	2470800000	C.52
KEBI QL 303015 S2B0	2470700000	C.50
KEBI QL 303015 S2B0	2470700000	C.53
KEBI QL 303015 S2B1	2470810000	C.50
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KEBI-KTBI MF S2 SET	1289180000	C.62
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KEBI-KTBI MOPL 3030 S2N	1310320000	C.54
KEBI-KTBI MOPL 4030 MSZN	1310420000	C.55
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KEBI-KTBI MOPL 6060 S2N	1310380000	C.61
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KL SET 12W4 S	8000003444	C.116
KL SET 12W4 S	8000003444	C.150
KL SET 12W4 S	8000003444	C.155
KL SET 13A4 S	8000004134	C.116
KL SET 14Z2.5 S	8000004133	C.116
KL SET 18A4 S	8000004146	C.150
KL SET 18A4 S	8000004146	C.154
KL SET 18W4 S	8000004140	C.116
KL SET 21A4 S	8000004137	C.116
KL SET 24Z2.5 S	8000004136	C.116
KL SET 32W4 S	8000004142	C.116
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KL SET 38Z2.5 S	8000004143	C.116
KL SET 38Z2.5 S	8000004143	C.150
KL SET 38Z2.5 S	8000004143	C.156
KL SET 4Z4 S	8000004139	C.116
KL SET 5W4 S	8000004138	C.116
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KLIPPON BDX M20 S	2519550000	C.68
KLIPPON BDX M20 S	2519550000	C.69
KLIPPON BDX M20 S	2519550000	C.70
KLIPPON BDX M20 S	2519550000	C.71
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KLIPPON P0K3 M20BCSS EX	8000004226	C.150
KLIPPON P0K3 M20BCSS EX	8000004226	C.154
KLIPPON P0K4 3M20AB CSS	8000003448	C.150
KLIPPON P0K4 3M20AB CSS	8000003448	C.155
KLIPPON P0K4 M20WCSS EX	8000003593	C.150
KLIPPON P0K4 M20WCSS EX	8000003593	C.155
KLIPPON P0K4 M20ZCSS EX	8000003594	C.150
KLIPPON P0K4 M20ZCSS EX	8000003594	C.155
KLIPPON P0K51 4M20ABCSS	8000004164	C.150
KLIPPON P0K51 4M20ABCSS	8000004164	C.156
KLIPPON P0K51 M20WCSS E	8000004229	C.150
KLIPPON P0K51 M20WCSS E	8000004229	C.156
KLIPPON P0K51 M20ZCSS E	8000004230	C.150
KLIPPON P0K51 M20ZCSS E	8000004230	C.156
KLIPPON QL KEY	2473930000	C.52
KLIPPON QL KEY	2473930000	C.53
KLIPPON QL KEY	2473930000	C.54
KLIPPON QL KEY	2473930000	C.55
KLIPPON QL KEY	2473930000	C.56
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KLIPPON STB 1 MS HT	1024970000	C.66

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KLIPPON STB 1 SS	1002690000	C.66
KLIPPON STB 1 SS	1002690000	C.68
KLIPPON STB 1 SS	1002690000	C.78
KLIPPON STB 1 SS E	1058810000	C.66
KLIPPON STB 1 SS E	1058810000	C.68
KLIPPON STB 1.1 MS HT	1024980000	C.66
KLIPPON STB 1.1 MS HT	1024980000	C.69
KLIPPON STB 1.1 SS	1002750000	C.66
KLIPPON STB 1.1 SS	1002750000	C.69
KLIPPON STB 1.1 SS E	1058820000	C.66
KLIPPON STB 1.1 SS E	1058820000	C.69
KLIPPON STB 2 MS HT	1024990000	C.66
KLIPPON STB 2 MS HT	1024990000	C.70
KLIPPON STB 2 SS	1002740000	C.66
KLIPPON STB 2 SS	1002740000	C.70
KLIPPON STB 2 SS	1002740000	C.79
KLIPPON STB 2 SS E	1058830000	C.66
KLIPPON STB 2 SS E	1058830000	C.70
KLIPPON STB 2.1 MS HT	1025010000	C.66
KLIPPON STB 2.1 MS HT	1025010000	C.71
KLIPPON STB 2.1 SS	1002730000	C.66
KLIPPON STB 2.1 SS	1002730000	C.71
KLIPPON STB 2.1 SS E	1058840000	C.66
KLIPPON STB 2.1 SS E	1058840000	C.71
KLIPPON STB 3 MS HT	1025020000	C.66
KLIPPON STB 3 MS HT	1025020000	C.72
KLIPPON STB 3 SS	1002720000	C.66
KLIPPON STB 3 SS	1002720000	C.72
KLIPPON STB 3 SS	1002720000	C.80
KLIPPON STB 3 SS E	1058850000	C.66
KLIPPON STB 3 SS E	1058850000	C.72
KLIPPON STB 4 MS HT	1025030000	C.66
KLIPPON STB 4 MS HT	1025030000	C.73
KLIPPON STB 4 SS	1002710000	C.66
KLIPPON STB 4 SS	1002710000	C.73
KLIPPON STB 4 SS	1002710000	C.81
KLIPPON STB 4 SS E	1058860000	C.66
KLIPPON STB 4 SS E	1058860000	C.73
KLIPPON STB 5 MS HT	1025040000	C.66
KLIPPON STB 5 MS HT	1025040000	C.74
KLIPPON STB 5 SS	1002700000	C.66
KLIPPON STB 5 SS	1002700000	C.74
KLIPPON STB 5 SS E	1058880000	C.66
KLIPPON STB 5 SS E	1058880000	C.74
KLIPPON STB 6 MS HT	1025050000	C.66
KLIPPON STB 6 MS HT	1025050000	C.75
KLIPPON STB 6 SS	1002760000	C.66
KLIPPON STB 6 SS	1002760000	C.75
KLIPPON STB 6 SS E	1058870000	C.66
KLIPPON STB 6 SS E	1058870000	C.75
KSG M20 BN 0 NI 2 G16	1911510000	D.33
KSG M20 BN 0 NI 2 G20	1911560000	D.33
KSG M20 BN 0 NI 2 G20S	1911540000	D.33
KSG M20 BS 0 NI 2 G16	0930481222	D.34
KSG M20 BS 0 NI 2 G20	0930501222	D.34
KSG M20 BS 0 NI 2 G20S	0930491224	D.34
KSG M25 BN 0 NI 2 G25	1911570000	D.33
KSG M25 BS 0 NI 2 G25	0930511222	D.34
KSG M32 BN 0 NI 2 G32	1911580000	D.33
KSG M32 BS 0 NI 2 G32	0930521222	D.34
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KSG M50 BS 0 NI 2 G50S	1136660000	D.34
KSG M63 BN 0 NI 2 G63	1911630000	D.33
KSG M63 BN 0 NI 2 G63S	1911620000	D.33
KSG M63 BS 0 NI 2 G63	1136690000	D.34
KSG M63 BS 0 NI 2 G63S	1136680000	D.34
KSG M75 BN 0 NI 2 G75	1075360000	D.33
KSG M75 BN 0 NI 2 G75S	1075350000	D.33
KSG M75 BS 0 NI 2 G75	1136710000	D.34
KSG M75 BS 0 NI 2 G75S	1136700000	D.34
KSP EL30	1736670000	D.51
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KSP EL55	1076760000	D.51
KSP EL65	1076770000	D.51
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KSP L 104 S	1193940000	D.50
KSP L114 S	1192790000	D.50
KSP L24	1736570000	D.51
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KSP L30	1736580000	D.51
KSP L30 S	0930700002	D.50
KSP L38	1736590000	D.51
KSP L38 S	0930700003	D.50
KSP L46	1736600000	D.51
KSP L46 S	0930700004	D.50
KSP L55	1736610000	D.51
KSP L55 S	0930700005	D.50
KSP L65	1736620000	D.51
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KSPMH M16 SSC	1477820000	C.78
KSPMH M16 SSC	1477820000	D.57
KSPMH M20 BSC	1477750000	D.57
KSPMH M20 SSC	1477840000	C.44
KSPMH M20 SSC	1477840000	C.45
KSPMH M20 SSC	1477840000	C.46
KSPMH M20 SSC	1477840000	C.47
KSPMH M20 SSC	1477840000	C.79
KSPMH M20 SSC	1477840000	C.80
KSPMH M20 SSC	1477840000	D.57
KSPMH M25 BSC	1477770000	D.57
KSPMH M25 SSC	1477870000	C.47
KSPMH M25 SSC	1477870000	C.81
KSPMH M25 SSC	1477870000	D.57
KSPMH M32 BSC	1477780000	D.57
KSPMH M32 SSC	1477890000	C.45
KSPMH M32 SSC	1477890000	C.46
KSPMH M32 SSC	1477890000	D.57
KSPMH M40 BSC	1477790000	D.57
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KSWF M25	0899770000	D.48
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KSWF M50	1076720000	D.48
KSWF M63	1076730000	D.48
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KTB GP 221513 AB S4 6MM	1256270000	C.15
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KTB GP 262615 CD S4 PE	2023090000	C.16
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KTB GP 262620 CD S4 6MM	1256330000	C.17
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KTB GP 403015 CD S4 PE	2023330000	C.22
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KTB GP 403020 AB S4 PE	2023450000	C.23
KTB GP 403020 CD S4 6MM	1256470000	C.23
KTB GP 403020 CD S4 PE	2023480000	C.23

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KTB GP 453820 CD S4 6MM	1256520000	C.25
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KTB GP 484815 AB S4 6MM	1256530000	C.26
KTB GP 484815 AB S4 PE	2023530000	C.26
KTB GP 484815 CD S4 6MM	1256540000	C.26
KTB GP 484815 CD S4 PE	2023540000	C.26
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KTB GP 987420 CD S4 PE	2024590000	C.36
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KTB MH 221513 S4E4	1194590000	C.15
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KTB MH 262615 Exia	8000028399	C.45
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KTB MH 262615 S4E1	1194610000	C.16
KTB MH 262615 S4E1	1194610000	C.45
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KTB QL 987420 S4E4	1201040000	C.38
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KTB QLL S2 SLS	1191600000	C.53
KTB QLL S2 SLS	1191600000	C.54
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KTB QLL S2 SLS	1191600000	C.56
KTB QLL S2 SLS	1191600000	C.57
KTB QLL S2 SLS	1191600000	C.58

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KTB RNHD 221513 R	1281360000	C.44
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KTB RNHD 403015 S4E R	1314170000	C.22
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KTB RNHD 553520 S4E R	1314250000	C.29
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KTB RNHD 987420 R	1281580000	C.36
KTB RNHD 987420 S4E R	1314340000	C.36
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KV 13-M	1656400000	D.10
KV 16-M	1656410000	D.10
KV 21-M	1656420000	D.10
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MF TBF	0360800000	C.174
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MOPL K2 N FE	1905270000	C.101
MOPL K21 STAHL	3073020000	C.102
MOPL K3 BKVARIO SET	8000004497	C.116
MOPL K3 N FE	1898210000	C.103
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MOPL K71 STAHL	3073140000	C.114
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MP FPC 40/60	9535980000	C.187
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MP TBF 49/30	9500960000	C.172
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MP TBF 60/37	9502910000	C.174
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SD FIXING SET	1285200000	C.34
SD FIXING SET	1285200000	C.35
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SKMU M25 MS SC	0930640003	D.43
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SKMU M32 MS SC	0930640004	D.43
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1075180000	KDSW M50 BN O NI 1 G50	D.29
1075190000	KDSW M50 BN O NI 2 G50	D.29
1075210000	KDSW M63 BN O NI 1 G63S	D.29
1075220000	KDSW M63 BN O NI 2 G63S	D.29
1075230000	KDSW M63 BN O NI 1 G63	D.29
1075240000	KDSW M63 BN O NI 2 G63	D.29
1075250000	KDSW M75 BN O NI 1 G75S	D.29
1075260000	KDSW M75 BN O NI 2 G75S	D.29
1075270000	KDSW M75 BN O NI 1 G75	D.29
1075280000	KDSW M75 BN O NI 2 G75	D.29
1075350000	KSG M75 BN O NI 2 G75S	D.33
1075360000	KSG M75 BN O NI 2 G75	D.33
1076630000	KSWN M16	D.47
1076640000	KSWN M25	D.47
1076650000	KSWN M32	D.47
1076660000	KSWN M63	D.47
1076670000	KSWN M75	D.47
1076680000	KSWF M16	D.48
1076690000	KSWF M32	D.48

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1076710000	KSWF M40	D.48
1076720000	KSWF M50	D.48
1076730000	KSWF M63	D.48
1076740000	KSWF M75	D.48
1076750000	KSP EL46	D.51
1076760000	KSP EL55	D.51
1076770000	KSP EL65	D.51
1076780000	KSP EL80	D.51
1076790000	KSP EL90	D.51

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1083280000	KDSU M20 BN O NI 1 G16	D.27
1083290000	KDSU M20 BN O NI 1 G20S	D.27
1083320000	KDSU M20 BN O NI 1 G20	D.27
1083330000	KDSU M25 BN O NI 1 G25	D.27
1083340000	KDSU M32 BN O NI 1 G32	D.27
1083350000	KDSU M40 BN O NI 1 G40	D.27
1083360000	KDSU M50 BN O NI 1 G50S	D.27
1083370000	KDSU M50 BN O NI 1 G50	D.27
1083380000	KDSU M63 BN O NI 1 G63S	D.27
1083390000	KDSU M63 BN O NI 1 G63	D.27
1083400000	KDSU M75 BN O NI 1 G75S	D.27
1083410000	KDSU M75 BN O NI 2 G75S	D.27
1083420000	KDSU M75 BN O NI 1 G75	D.27
1083430000	KDSU M75 BN O NI 2 G75	D.27

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1135920000	KDSX M20 BS O NI 2 G16	D.32
1135930000	KDSX M20 BS O NI 1 G20S	D.32
1135940000	KDSX M20 BS O NI 2 G20S	D.32
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1135960000	KDSX M20 BS O NI 2 G20	D.32
1135970000	KDSX M25 BS O NI 1 G25	D.32
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1135990000	KDSX M32 BS O NI 1 G32	D.32
1136000000	KDSX M32 BS O NI 2 G32	D.32
1136010000	KDSX M40 BS O NI 1 G40	D.32
1136020000	KDSX M40 BS O NI 2 G40	D.32
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1136110000	KDSX M63 BS O NI 2 G63	D.32
1136120000	KDSX M75 BS O NI 1 G75S	D.32
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1136150000	KDSX M75 BS O NI 2 G75	D.32
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1136690000	KSG M63 BS O NI 2 G63	D.34
1136700000	KSG M75 BS O NI 2 G75S	D.34
1136710000	KSG M75 BS O NI 2 G75	D.34
1136990000	KDSU M40 BS O NI 1 G40	D.28
1137000000	KDSU M50 BS O NI 1 G50S	D.28
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1137020000	KDSU M50 BS O NI 2 G50	D.28
1137030000	KDSU M63 BS O NI 1 G63S	D.28
1137040000	KDSU M63 BS O NI 2 G63S	D.28
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1137060000	KDSU M75 BS O NI 1 G75S	D.28
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1137080000	KDSU M75 BS O NI 1 G75	D.28
1137090000	KDSU M75 BS O NI 2 G75	D.28

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1191600000	KTB QLL S2 SLS	C.58
1191600000	KTB QLL S2 SLS	C.59
1191600000	KTB QLL S2 SLS	C.60
1191600000	KTB QLL S2 SLS	C.61
1191600000	KTB QLL S2 SLS	C.62
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1192690000	PEBZ M10 KTB S4 SET	C.16
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1192690000	PEBZ M10 KTB S4 SET	C.36
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1192690000	PEBZ M10 KTB S4 SET	C.45
1192690000	PEBZ M10 KTB S4 SET	C.46
1192690000	PEBZ M10 KTB S4 SET	C.47
1192790000	KSP L114 S	D.50
1193570000	VGM25-SS68 11-20 BG	D.14
1193580000	VGM32-SS68 15-25 BG	D.14
1193590000	VGM40-SS68 20-32 BG	D.14
1193600000	VGM25-MS68 11-20 BG	D.9
1193610000	VGM32-MS68 15-25 BG	D.9
1193620000	VGM40-MS68 20-32 BG	D.9
1193810000	KTB MOPL 2215 S2N	C.15
1193810000	KTB MOPL 2215 S2N	C.44
1193820000	KTB MOPL 2626 S2N	C.16
1193820000	KTB MOPL 2626 S2N	C.17
1193820000	KTB MOPL 2626 S2N	C.45
1193830000	KTB MOPL 3030 S2N	C.18
1193830000	KTB MOPL 3030 S2N	C.19
1193830000	KTB MOPL 3030 S2N	C.46
1193840000	KTB MOPL 3526 S2N	C.20
1193840000	KTB MOPL 3526 S2N	C.21
1193850000	KTB MOPL 4030 S2N	C.22
1193850000	KTB MOPL 4030 S2N	C.23
1193860000	KTB MOPL 4538 S2N	C.24
1193860000	KTB MOPL 4538 S2N	C.25
1193870000	KTB MOPL 4848 S2N	C.26
1193870000	KTB MOPL 4848 S2N	C.27
1193870000	KTB MOPL 4848 S2N	C.47
1193880000	KTB MOPL 5535 S2N	C.28
1193880000	KTB MOPL 5535 S2N	C.29
1193890000	KTB MOPL 6245 S2N	C.30
1193890000	KTB MOPL 6245 S2N	C.31
1193900000	KTB MOPL 7650 S2N	C.32
1193900000	KTB MOPL 7650 S2N	C.33
1193910000	KTB MOPL 9161 S2N	C.34
1193910000	KTB MOPL 9161 S2N	C.35
1193920000	KTB MOPL 9874 S2N	C.36
1193930000	KTB MOPL 2215 MSZN	C.15
1193940000	KSP L 104 S	D.50
1193950000	KTB MOPL 2626 MSZN	C.16
1193950000	KTB MOPL 2626 MSZN	C.17
1193960000	KTB MOPL 3030 MSZN	C.18
1193960000	KTB MOPL 3030 MSZN	C.19
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1194040000	KTB MOPL 9161 MSZN	C.35
1194050000	KTB MOPL 9874 MSZN	C.36
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1194550000	KTB MH 221513 S4E0	C.15
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1194560000	KTB MH 221513 S4E1	C.15
1194560000	KTB MH 221513 S4E1	C.44
1194570000	KTB MH 221513 S4E2	C.12
1194570000	KTB MH 221513 S4E2	C.15
1194580000	KTB MH 221513 S4E3	C.12

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1205920000	VGM40/1-SS68 20-32 BG	D.14

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1210890000	VP M16 EXE MS	D.56
1210900000	VP M20 EXE MS	C.153
1210900000	VP M20 EXE MS	C.154
1210900000	VP M20 EXE MS	C.155
1210900000	VP M20 EXE MS	D.56
1210910000	VP M25 EXE MS	D.56
1210920000	VP M32 EXE MS	D.56
1210930000	VP M40 EXE MS	D.56
1210940000	VP M50 EXE MS	D.56
1210950000	VP M63 EXE MS	D.56

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1252190000	TPSD FIXING SET KTB	C.36
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1252730000	DOHA KTB A4 S2 R	C.27
1252730000	DOHA KTB A4 S2 R	C.28
1252730000	DOHA KTB A4 S2 R	C.29
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1252730000	DOHA KTB A4 S2 R	C.36
1252730000	DOHA KTB A4 S2 R	C.47
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1252750000	DOHA KTB A5 S2 R	C.25
1252750000	DOHA KTB A5 S2 R	C.26

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1252780000	DOHA KTB A6 S2 R	C.47
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1257640000	TPSDHA KTB 100X25 S2 2R	C.35
1257640000	TPSDHA KTB 100X25 S2 2R	C.36
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1257640000	TPSDHA KTB 100X25 S2 2R	C.47
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1257660000	KTB MOPL 2626 S2N H	C.16
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1257670000	KTB MOPL 3030 S2N H	C.18
1257670000	KTB MOPL 3030 S2N H	C.19
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1257690000	KTB MOPL 4030 S2N H	C.22
1257690000	KTB MOPL 4030 S2N H	C.23
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1257700000	KTB MOPL 4538 S2N H	C.25
1257710000	KTB MOPL 4848 S2N H	C.26
1257710000	KTB MOPL 4848 S2N H	C.27
1257720000	KTB MOPL 5535 S2N H	C.28
1257720000	KTB MOPL 5535 S2N H	C.29
1257740000	KTB MOPL 6245 S2N H	C.30
1257740000	KTB MOPL 6245 S2N H	C.31
1257750000	KTB MOPL 7650 S2N H	C.32
1257750000	KTB MOPL 7650 S2N H	C.33
1257760000	KTB MOPL 9161 S2N H	C.34
1257760000	KTB MOPL 9161 S2N H	C.35
1257770000	KTB MOPL 9874 S2N H	C.36

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1279320000	TPSDHA KTB 70X70M3 S2 R	C.46
1279320000	TPSDHA KTB 70X70M3 S2 R	C.47

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1280970000	KTB GP 303020 AB S4	C.46
1281130000	KTB GP 484820 AB S4	C.47
1281360000	KTB RNHD 221513 R	C.15
1281360000	KTB RNHD 221513 R	C.44
1281370000	KTB RNHD 262615 R	C.16
1281370000	KTB RNHD 262615 R	C.45
1281380000	KTB RNHD 262620 R	C.17
1281390000	KTB RNHD 303015 R	C.18
1281400000	KTB RNHD 303020 R	C.19
1281400000	KTB RNHD 303020 R	C.46
1281410000	KTB RNHD 352615 R	C.20
1281420000	KTB RNHD 352620 R	C.21
1281430000	KTB RNHD 403015 R	C.22
1281440000	KTB RNHD 403020 R	C.23
1281450000	KTB RNHD 453815 R	C.24
1281460000	KTB RNHD 453820 R	C.25
1281470000	KTB RNHD 484815 R	C.26
1281480000	KTB RNHD 484820 R	C.27
1281480000	KTB RNHD 484820 R	C.47
1281490000	KTB RNHD 553515 R	C.28
1281500000	KTB RNHD 553520 R	C.29
1281510000	KTB RNHD 624515 R	C.30
1281520000	KTB RNHD 624520 R	C.31
1281530000	KTB RNHD 765015 R	C.32
1281540000	KTB RNHD 765020 R	C.33
1281550000	KTB RNHD 916115 R	C.34
1281570000	KTB RNHD 916120 R	C.35
1281580000	KTB RNHD 987420 R	C.36
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1285200000	SD FIXING SET	C.36
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1305840000	KLIPPON POK 081906	C.135
1305850000	KLIPPON POK 082306	C.130
1305850000	KLIPPON POK 082306	C.136
1305870000	KLIPPON POK 121209	C.130
1305870000	KLIPPON POK 121209	C.137
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1305990000	KLIPPON POK 254016	C.146
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1306040000	KLIPPON POK 082306 EX	C.136
1306050000	KLIPPON POK 121209 EX	C.130
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1306070000	KLIPPON POK 122209 EX	C.130
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1306080000	KLIPPON POK 161609 EX	C.130
1306080000	KLIPPON POK 161609 EX	C.139
1306090000	KLIPPON POK 162609 EX	C.130
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1306100000	KLIPPON POK 163609 EX	C.130
1306100000	KLIPPON POK 163609 EX	C.141
1306110000	KLIPPON POK 165609 EX	C.130
1306110000	KLIPPON POK 165609 EX	C.142
1306120000	KLIPPON POK 252512 EX	C.130
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1306130000	KLIPPON POK 254012 EX	C.130
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1310350000	KEBI-KTBI MOPL 5040 S2N	C.58
1310360000	KEBI-KTBI MOPL 5050 S2N	C.59
1310370000	KEBI-KTBI MOPL 6040 S2N	C.60
1310380000	KEBI-KTBI MOPL 6060 S2N	C.61
1310390000	KEBI-KTBI MOPL 8060 S2N	C.62
1310410000	KEBI-KTBI MOPL 3030 MSZN	C.53
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1310440000	KEBI-KTBI MOPL 5040 MSZN	C.58
1310450000	KEBI-KTBI MOPL 5050 MSZN	C.59
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1310470000	KEBI-KTBI MOPL 6060 MSZN	C.61
1310480000	KEBI-KTBI MOPL 8060 MSZN	C.62
1314090000	KTB RNHD 221513 S4E R	C.15
1314100000	KTB RNHD 262615 S4E R	C.16
1314110000	KTB RNHD 262620 S4E R	C.17
1314120000	KTB RNHD 303015 S4E R	C.18
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1460070000	VG M25 EXE MS	C.81
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1694090000	SKMU PG11-MS	D.42
1694100000	SKMU PG13,5-MS	D.42
1694110000	SKMU PG16-MS	D.42
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1718920000	SKMU EMV PG11	D.44
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1719100000	SKMU PG7-K SW	D.41
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1736930000	SKMU M20 K SW	C.80
1736930000	SKMU M20 K SW	D.41
1736940000	SKMU M25 K SW	C.81
1736940000	SKMU M25 K SW	D.41
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1737000000	SKMU M20 MS	C.47
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1737000000	SKMU M20 MS	D.42
1737010000	SKMU M25 MS	C.47
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1772330000	VG M40 - K 68	D.6
1772340000	VG M50 - K 68	D.6
1772350000	VG M63-1/K68	D.6
1772360000	SKMU M12 MS	D.42
1772440000	SKMU M12 - K GR	D.40
1772450000	SKMU M16 - K GR	D.40
1772460000	SKMU M20 - K GR	D.40
1772470000	SKMU M25 - K GR	D.40
1772480000	SKMU M32 - K GR	D.40
1772490000	SKMU M40 - K GR	D.40
1772500000	SKMU M50 - K GR	D.40
1772510000	SKMU M63 - K GR	D.40
1776700000	VG M12-K68 SKS	D.7
1776710000	VG M16-K68 SKS	D.7
1776720000	VG M20-K68 SKS 10-14	D.7
1776730000	VG M25-K68 SKS	D.7
1776900000	VP M25 K54	D.53
1776910000	VP M20 K54	D.53
1776920000	VP M16 K54	D.53
1776930000	VP M12 K54	D.53
1776940000	VP M32 K54	D.53
1776950000	VP M40 K54	D.53
1776960000	VP M50 K54	D.53
1776970000	VP M63 K54	D.53
1777610000	SKMU EMV M12	D.44
1777620000	SKMU EMV M16	D.44
1777630000	SKMU EMV M20	D.44
1777640000	SKMU EMV M25	D.44
1777650000	SKMU EMV M32	D.44
1777660000	SKMU EMV M40	D.44
1777670000	SKMU EMV M50	D.44
1777680000	SKMU EMV M63	D.44
1777690000	SKMU EMV PG 48	D.44
1777700000	SKMU EMV PG 42	D.44
1777710000	SKMU EMV PG 36	D.44
1777720000	VP M12-MS65	D.54
1777730000	VP M16-MS65	D.54
1777740000	VP M20-MS65	D.54
1777750000	VP M25-MS65	D.54
1777760000	VP M32-MS65	D.54
1777770000	VP M40-MS65	D.54
1777780000	VP M50-MS65	D.54
1777790000	VP M63-MS65	D.54
1777920000	GWDR M12-P0	D.45
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1777960000	GWDR M32-P0	D.45
1777970000	GWDR M40-P0	D.45
1777980000	GWDR M50-P0	D.45
1777990000	GWDR M63-P0	D.45
1778860000	VG M20-K68 SKS 6-12	D.7

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1868550000	DAE M12 SS	C.72
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1868550000	DAE M12 SS	C.147
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1868560000	DAE M12 PA SHORT	D.59
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1905270000	MOPL K2 N FE	C.101
1905280000	MOPL K1 N FE	C.99
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1909880000	VG M32-1/K68	D.6
1909890000	VG M40-1/K68	D.6
1909910000	VG M16-1/MS68	D.8
1909920000	VG M25-1/MS68	D.8
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1910020000	TS15 114 Klippon K21 CSS	C.102
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1911400000	KDSU M20 BN O NI 2 G20	D.27
1911420000	KDSU M25 BN O NI 2 G25	D.27
1911430000	KDSU M32 BN O NI 2 G32	D.27
1911440000	KDSU M40 BN O NI 2 G40	D.27
1911450000	KDSU M50 BN O NI 2 G50S	D.27
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1937720000	KLIPPON K71 VMQ RAL7001	C.94
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1937730000	KLIPPON K61 VMQ RAL7001	C.94
1937730000	KLIPPON K61 VMQ RAL7001	C.112
1937740000	KLIPPON K52 VMQ RAL7001	C.94
1937740000	KLIPPON K52 VMQ RAL7001	C.110
1937750000	KLIPPON K51 VMQ RAL7001	C.94
1937750000	KLIPPON K51 VMQ RAL7001	C.109
1937800000	KLIPPON K41 VMQ RAL7001	C.94
1937800000	KLIPPON K41 VMQ RAL7001	C.107
1937810000	KLIPPON K32 VMQ RAL7001	C.94
1937810000	KLIPPON K32 VMQ RAL7001	C.105
1937820000	KLIPPON K31 VMQ RAL7001	C.94
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1937830000	KLIPPON K21 VMQ RAL7001	C.94
1937830000	KLIPPON K21 VMQ RAL7001	C.102
1937840000	KLIPPON K02 VMQ RAL7001	C.94
1937840000	KLIPPON K02 VMQ RAL7001	C.98
1937850000	KLIPPON K01 VMQ RAL7001	C.94
1937850000	KLIPPON K01 VMQ RAL7001	C.97
1937860000	KLIPPON K5 VMQ RAL7001	C.94
1937860000	KLIPPON K5 VMQ RAL7001	C.108
1937870000	KLIPPON K6 VMQ RAL7001	C.94
1937870000	KLIPPON K6 VMQ RAL7001	C.111
1937880000	KLIPPON K7 VMQ RAL7001	C.94
1937880000	KLIPPON K7 VMQ RAL7001	C.113
1937890000	KLIPPON K4 VMQ RAL7001	C.94
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1937900000	KLIPPON K3 VMQ RAL7001	C.94
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1937910000	KLIPPON K11 VMQ RAL7001	C.94
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1937920000	KLIPPON K0 VMQ RAL7001	C.94
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1937930000	KLIPPON K2 VMQ RAL7001	C.94
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1939540000	KLIPPON K01 VMQ	C.94
1939540000	KLIPPON K01 VMQ	C.97
1939550000	KLIPPON K02 VMQ	C.94
1939550000	KLIPPON K02 VMQ	C.98
1939560000	KLIPPON K1 VMQ	C.94
1939560000	KLIPPON K1 VMQ	C.99
1939570000	KLIPPON K11 VMQ	C.94
1939570000	KLIPPON K11 VMQ	C.100
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1939640000	KLIPPON K41 VMQ	C.94
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1939650000	KLIPPON K5 VMQ	C.94
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1939660000	KLIPPON K51 VMQ	C.94
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1939670000	KLIPPON K52 VMQ	C.94
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1939690000	KLIPPON K6 VMQ	C.94
1939690000	KLIPPON K6 VMQ	C.111
1939700000	KLIPPON K61 VMQ	C.94
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1939710000	KLIPPON K7 VMQ	C.94
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1939730000	KLIPPON K71 VMQ	C.94
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2022190000	KTB MOPL 3030 MSZN H	C.18
2022190000	KTB MOPL 3030 MSZN H	C.19
2022310000	KTB MOPL 3526 MSZN H	C.20
2022310000	KTB MOPL 3526 MSZN H	C.21
2022420000	KTB MOPL 4030 MSZN H	C.22
2022420000	KTB MOPL 4030 MSZN H	C.23
2022590000	KTB MOPL 4538 MSZN H	C.24
2022590000	KTB MOPL 4538 MSZN H	C.25
2022610000	KTB MOPL 4848 MSZN H	C.26
2022610000	KTB MOPL 4848 MSZN H	C.27
2022650000	KTB MOPL 5535 MSZN H	C.28
2022650000	KTB MOPL 5535 MSZN H	C.29
2022670000	KTB MOPL 6245 MSZN H	C.30
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2022680000	KTB MOPL 7650 MSZN H	C.32
2022680000	KTB MOPL 7650 MSZN H	C.33
2022740000	KTB MOPL 9161 MSZN H	C.34
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2022760000	KTB MOPL 9874 MSZN H	C.36
2022770000	KTB GP 221513 AB S4 PE	C.15
2022900000	KTB GP 221513 CD S4 PE	C.15
2022930000	KTB GP 262615 AB S4 PE	C.16
2023090000	KTB GP 262615 CD S4 PE	C.16
2023100000	KTB GP 262620 AB S4 PE	C.17
2023110000	KTB GP 262620 CD S4 PE	C.17
2023120000	KTB GP 303015 AB S4 PE	C.18
2023130000	KTB GP 303015 CD S4 PE	C.18
2023140000	KTB GP 303020 AB S4 PE	C.19
2023150000	KTB GP 303020 CD S4 PE	C.19
2023160000	KTB GP 352615 AB S4 PE	C.20
2023210000	KTB GP 352615 DC S4 PE	C.20
2023230000	KTB GP 352620 AB S4 PE	C.21
2023280000	KTB GP 352620 CD S4 PE	C.21
2023320000	KTB GP 403015 AB S4 PE	C.22
2023330000	KTB GP 403015 CD S4 PE	C.22
2023450000	KTB GP 403020 AB S4 PE	C.23
2023480000	KTB GP 403020 CD S4 PE	C.23
2023490000	KTB GP 453815 AB S4 PE	C.24
2023500000	KTB GP 453815 CD S4 PE	C.24
2023510000	KTB GP 453820 AB S4 PE	C.25
2023520000	KTB GP 453820 CD S4 PE	C.25
2023530000	KTB GP 484815 AB S4 PE	C.26
2023540000	KTB GP 484815 CD S4 PE	C.26
2023580000	KTB GP 484820 AB S4 PE	C.27
2023620000	KTB GP 484820 CD S4 PE	C.27
2023660000	KTB GP 553515 AB S4 PE	C.28
2023670000	KTB GP 553515 CD S4 PE	C.28
2023740000	KTB GP 553520 AB S4 PE	C.29
2023790000	KTB GP 553520 CD S4 PE	C.29
2023820000	KTB GP 624515 AB S4 PE	C.30
2023870000	KTB GP 624515 CD S4 PE	C.30
2023880000	KTB GP 624520 AB S4 PE	C.31
2023930000	KTB GP 624520 CD S4 PE	C.31
2024040000	KTB GP 765015 AB S4 PE	C.32
2024090000	KTB GP 765015 CD S4 PE	C.32
2024100000	KTB GP 765020 AB S4 PE	C.33
2024140000	KTB GP 765020 CD S4 PE	C.33
2024150000	KTB GP 916115 AB S4 PE	C.34
2024300000	KTB GP 916115 CD S4 PE	C.34
2024470000	KTB GP 916120 AB S4 PE	C.35
2024490000	KTB GP 916120 CD S4 PE	C.35
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2066720000	VP M16 EX SI 7J	C.152
2066720000	VP M16 EX SI 7J	D.58
2066730000	VP M20 EX SI 7J	C.153
2066730000	VP M20 EX SI 7J	C.154
2066730000	VP M20 EX SI 7J	C.155
2066730000	VP M20 EX SI 7J	C.156
2066730000	VP M20 EX SI 7J	D.58
2066740000	VP M25 EX SI 7J	D.58
2066750000	VP M32 EX SI 7J	D.58
2066760000	VP M40 EX SI 7J	D.58
2066770000	VP M50 EX SI 7J	D.58
2066940000	VP M63 EX SI 7J	D.58

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2435140000	VG M16 EMV-4 MS 5-10	D.11
2435150000	VG M20 EMV-4 MS 6-12	D.11
2435160000	VG M20 EMV-4 MS 8-14	D.11
2435170000	VG M25 EMV-4 MS 10-18	D.11
2435180000	VG M32 EMV-4 MS 16-25	D.11
2435190000	VG M40 EMV-4 MS 22-32	D.11
2435200000	VG M50 EMV-4 MS 30-38	D.11
2435210000	VG M63 EMV-4 MS 34-44	D.11

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2470690000	KEBI QL 302015 S2B0	C.50
2470690000	KEBI QL 302015 S2B0	C.52
2470700000	KEBI QL 303015 S2B0	C.50
2470700000	KEBI QL 303015 S2B0	C.53
2470710000	KEBI QL 303022 S2B0	C.50
2470710000	KEBI QL 303022 S2B0	C.54
2470720000	KEBI QL 403015 S2B0	C.50
2470720000	KEBI QL 403015 S2B0	C.55
2470730000	KEBI QL 403022 S2B0	C.50
2470730000	KEBI QL 403022 S2B0	C.56
2470740000	KEBI QL 404022 S2B0	C.50
2470740000	KEBI QL 404022 S2B0	C.57
2470750000	KEBI QL 504022 S2B0	C.50
2470750000	KEBI QL 504022 S2B0	C.58
2470760000	KEBI QL 505022 S2B0	C.50
2470760000	KEBI QL 505022 S2B0	C.59
2470770000	KEBI QL 604022 S2B0	C.50
2470770000	KEBI QL 604022 S2B0	C.60
2470780000	KEBI QL 606022 S2B0	C.50
2470780000	KEBI QL 606022 S2B0	C.61
2470790000	KEBI QL 806022 S2B0	C.50
2470790000	KEBI QL 806022 S2B0	C.62
2470800000	KEBI QL 302015 S2B1	C.50
2470800000	KEBI QL 302015 S2B1	C.52
2470810000	KEBI QL 303015 S2B1	C.50
2470810000	KEBI QL 303015 S2B1	C.53
2470820000	KEBI QL 303022 S2B1	C.50
2470820000	KEBI QL 303022 S2B1	C.54
2470830000	KEBI QL 403015 S2B1	C.50
2470830000	KEBI QL 403015 S2B1	C.55
2470840000	KEBI QL 403022 S2B1	C.50
2470840000	KEBI QL 403022 S2B1	C.56
2470850000	KEBI QL 404022 S2B1	C.50
2470850000	KEBI QL 404022 S2B1	C.57
2470860000	KEBI QL 504022 S2B1	C.50
2470860000	KEBI QL 504022 S2B1	C.58
2470870000	KEBI QL 505022 S2B1	C.50
2470870000	KEBI QL 505022 S2B1	C.59
2470880000	KEBI QL 604022 S2B1	C.50
2470880000	KEBI QL 604022 S2B1	C.60
2470890000	KEBI QL 606022 S2B1	C.50
2470890000	KEBI QL 606022 S2B1	C.61
2470900000	KEBI QL 806022 S2B1	C.50
2470900000	KEBI QL 806022 S2B1	C.62
2473930000	KLIPPON QL KEY	C.52
2473930000	KLIPPON QL KEY	C.53
2473930000	KLIPPON QL KEY	C.54
2473930000	KLIPPON QL KEY	C.55
2473930000	KLIPPON QL KEY	C.56
2473930000	KLIPPON QL KEY	C.57
2473930000	KLIPPON QL KEY	C.58
2473930000	KLIPPON QL KEY	C.59
2473930000	KLIPPON QL KEY	C.60
2473930000	KLIPPON QL KEY	C.61
2473930000	KLIPPON QL KEY	C.62
2475490000	PECD WIRE 6/200/D6 SET	C.44
2475490000	PECD WIRE 6/200/D6 SET	C.45
2475490000	PECD WIRE 6/200/D6 SET	C.46
2475490000	PECD WIRE 6/200/D6 SET	C.47
2475490000	PECD WIRE 6/200/D6 SET	C.78
2475490000	PECD WIRE 6/200/D6 SET	C.79
2475490000	PECD WIRE 6/200/D6 SET	C.80
2475490000	PECD WIRE 6/200/D6 SET	C.81

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2519520000	KLIPPON BDX M20 B	C.44
2519520000	KLIPPON BDX M20 B	C.45
2519520000	KLIPPON BDX M20 B	C.46
2519520000	KLIPPON BDX M20 B	C.47
2519520000	KLIPPON BDX M20 B	C.78
2519520000	KLIPPON BDX M20 B	C.79
2519520000	KLIPPON BDX M20 B	C.80
2519520000	KLIPPON BDX M20 B	C.81
2519520000	KLIPPON BDX M20 B	D.61
2519550000	KLIPPON BDX M20 S	C.44
2519550000	KLIPPON BDX M20 S	C.45
2519550000	KLIPPON BDX M20 S	C.46
2519550000	KLIPPON BDX M20 S	C.47
2519550000	KLIPPON BDX M20 S	C.68
2519550000	KLIPPON BDX M20 S	C.69
2519550000	KLIPPON BDX M20 S	C.70
2519550000	KLIPPON BDX M20 S	C.71
2519550000	KLIPPON BDX M20 S	C.72
2519550000	KLIPPON BDX M20 S	C.73
2519550000	KLIPPON BDX M20 S	C.74
2519550000	KLIPPON BDX M20 S	C.75
2519550000	KLIPPON BDX M20 S	C.78
2519550000	KLIPPON BDX M20 S	C.79
2519550000	KLIPPON BDX M20 S	C.80
2519550000	KLIPPON BDX M20 S	C.81
2519550000	KLIPPON BDX M20 S	D.61
2519570000	KLIPPON BDX M20X15 S	C.132
2519570000	KLIPPON BDX M20X15 S	C.133
2519570000	KLIPPON BDX M20X15 S	C.134
2519570000	KLIPPON BDX M20X15 S	C.135
2519570000	KLIPPON BDX M20X15 S	C.136
2519570000	KLIPPON BDX M20X15 S	C.137
2519570000	KLIPPON BDX M20X15 S	C.138
2519570000	KLIPPON BDX M20X15 S	C.139
2519570000	KLIPPON BDX M20X15 S	C.140
2519570000	KLIPPON BDX M20X15 S	C.141
2519570000	KLIPPON BDX M20X15 S	C.142
2519570000	KLIPPON BDX M20X15 S	C.143
2519570000	KLIPPON BDX M20X15 S	C.144
2519570000	KLIPPON BDX M20X15 S	C.145
2519570000	KLIPPON BDX M20X15 S	C.146
2519570000	KLIPPON BDX M20X15 S	C.147
2519570000	KLIPPON BDX M20X15 S	C.148
2519570000	KLIPPON BDX M20X15 S	D.61
2519590000	KLIPPON BDX M25 S	D.61

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2583350000	CABTITE BSE SML GY	E.4
2583360000	CABTITE SE 1.5-2 SML GY	E.4
2583380000	CABTITE SE 2-3 SML GY	E.4
2583400000	CABTITE SE 3-4 SML GY	E.4
2583440000	CABTITE SE 4-5 SML GY	E.4
2583450000	CABTITE SE 5-6 SML GY	E.4
2583460000	CABTITE SE 6-7 SML GY	E.4
2583470000	CABTITE FR 16/8 BK	E.6
2583480000	CABTITE FR 10/6 BK	E.5

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2583490000	CABTITE FR 4-1 BK	E.5
2583500000	CABTITE CSE 7-24 LRG BK	E.4
2583510000	CABTITE CSE 2-11 SML BK	E.4
2583520000	CABTITE SE 2/ASI SML BK	E.4
2583530000	CABTITE SE 1/ASI SML BK	E.4
2583540000	CABTITE SE 2/8 SML BK	E.4
2583550000	CABTITE SE 2/7 SML BK	E.4
2583560000	CABTITE SE 4/4-5 SML BK	E.4
2583580000	CABTITE SE 4/3-4 SML BK	E.4
2583590000	CABTITE SE 4/2-3 SML BK	E.4
2583610000	CABTITE SE 2/5-6 SML BK	E.4
2583620000	CABTITE SE 2/4-5 SML BK	E.4
2583630000	CABTITE SE 32-33 LRG BK	E.4
2583640000	CABTITE SE 31-32 LRG BK	E.4
2583650000	CABTITE SE 30-31 LRG BK	E.4
2583660000	CABTITE SE 29-30 LRG BK	E.4
2583670000	CABTITE SE 28-29 LRG BK	E.4
2583680000	CABTITE SE 27-28 LRG BK	E.4
2583690000	CABTITE SE 26-27 LRG BK	E.4
2583700000	CABTITE SE 25-26 LRG BK	E.4
2583710000	CABTITE SE 24-25 LRG BK	E.4
2583720000	CABTITE FR 24/10 BK SET	E.6
2583730000	CABTITE SE 23-24 LRG BK	E.4
2583740000	CABTITE FR 16/8 BK SET	E.6
2583750000	CABTITE SE 22-23 LRG BK	E.4
2583760000	CABTITE FR 10/6 BK SET	E.5
2583770000	CABTITE SE 21-22 LRG BK	E.4
2583780000	CABTITE FR 4-1 BK SET	E.5
2583790000	CABTITE SE 20-21 LRG BK	E.4
2583800000	CABTITE FR 24/10 BK	E.6
2583810000	CABTITE SE 19-20 LRG BK	E.4
2583830000	CABTITE SE 18-19 LRG BK	E.4
2583840000	CABTITE SE 17-18 LRG BK	E.4
2583850000	CABTITE SE 16-17 LRG BK	E.4
2583860000	CABTITE SE 15-16 LRG BK	E.4
2583880000	CABTITE SE 14-15 LRG BK	E.4
2583890000	CABTITE CR 24/10 EMV	E.8
2583900000	CABTITE BSE LRG BK	E.4
2583910000	CABTITE CR 16/8 EMV	E.8
2583930000	CABTITE CR 10/6 EMV	E.8
2583950000	CABTITE CR 4/1 EMV	E.8
2583960000	CABTITE SE 15-16 SML BK	E.4
2583980000	CABTITE SE 14-15 SML BK	E.4
2584000000	CABTITE SE 13-14 SML BK	E.4
2584010000	CABTITE LNS M63 BK	E.7
2584020000	CABTITE SE 12-13 SML BK	E.4
2584030000	CABTITE LNS M50 BK	E.7
2584040000	CABTITE SE 11-12 SML BK	E.4
2584050000	CABTITE LNS M40 BK	E.7
2584060000	CABTITE SE 10-11 SML BK	E.4
2584070000	CABTITE LNS M32 BK	E.7
2584080000	CABTITE SE 9-10 SML BK	E.4
2584090000	CABTITE LNS M25 BK	E.7
2584110000	CABTITE LNS M20 BK	E.7
2584120000	CABTITE CGS M63 BK	E.7
2584130000	CABTITE CGS M50 BK	E.7
2584150000	CABTITE CGS M40 BK	E.7
2584160000	CABTITE CGS M32 BK	E.7
2584180000	CABTITE CGS M25 BK	E.7
2584200000	CABTITE CGS M20 BK	E.7
2584210000	CABTITE FRL 24/10 BK	E.6
2584220000	CABTITE FRL 16/8 BK	E.6
2584240000	CABTITE FRL 10/6 BK	E.5
2584260000	CABTITE FRL 4-1 BK	E.5
2584270000	CABTITE GI H BK	E.7
2584290000	CABTITE GI X BK	E.7
2584300000	CABTITE GI T BK	E.7
2584320000	CABTITE GI I BK	E.7
2584330000	CABTITE SE 8-9 SML BK	E.4
2584340000	CABTITE SE 31-32 LRG GY	E.4
2584350000	CABTITE SE 28-29 LRG GY	E.4
2584360000	CABTITE SE 30-31 LRG GY	E.4
2584370000	CABTITE SE 27-28 LRG GY	E.4
2584380000	CABTITE SE 29-30 LRG GY	E.4
2584390000	CABTITE SE 26-27 LRG GY	E.4
2584400000	CABTITE SE 25-26 LRG GY	E.4
2584410000	CABTITE SE 24-25 LRG GY	E.4
2584420000	CABTITE SE 23-24 LRG GY	E.4
2584430000	CABTITE SE 22-23 LRG GY	E.4
2584440000	CABTITE SE 21-22 LRG GY	E.4
2584450000	CABTITE SE 20-21 LRG GY	E.4
2584460000	CABTITE SE 19-20 LRG GY	E.4
2584470000	CABTITE SE 18-19 LRG GY	E.4
2584480000	CABTITE SE 17-18 LRG GY	E.4
2584490000	CABTITE SE 16-17 LRG GY	E.4
2584500000	CABTITE SE 15-16 LRG GY	E.4
2584510000	CABTITE SE 14-15 LRG GY	E.4
2584520000	CABTITE BSE LRG GY	E.4
2584550000	CABTITE SE 15-16 SML GY	E.4
2584560000	CABTITE SE 14-15 SML GY	E.4
2584570000	CABTITE SE 13-14 SML GY	E.4
2584590000	CABTITE SE 12-13 SML GY	E.4
2584600000	CABTITE SE 11-12 SML GY	E.4
2584610000	CABTITE SE 10-11 SML GY	E.4
2584630000	CABTITE SE 9-10 SML GY	E.4
2584650000	CABTITE SE 8-9 SML GY	E.4
2584660000	CABTITE SE 7-8 SML GY	E.4
2584670000	CABTITE SE 7-8 SML BK	E.4
2584680000	CABTITE SE 4-5 SML BK	E.4

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2584690000	CABTITE SE 6-7 SML BK	E.4
2584710000	CABTITE SE 5-6 SML BK	E.4
2584730000	CABTITE SE 3-4 SML BK	E.4
2584760000	CABTITE SE 2-3 SML BK	E.4
2584780000	CABTITE SE 1.5-2 SML BK	E.4
2584790000	CABTITE BSE SML BK	E.4
2584800000	CABTITE SE 2/ASI SML GY	E.4
2584810000	CABTITE SE 1/ASI SML GY	E.4
2584820000	CABTITE SE 2/8 SML GY	E.4
2584830000	CABTITE SE 2/7 SML GY	E.4
2584840000	CABTITE SE 4/4-5 SML GY	E.4
2584860000	CABTITE SE 4/3-4 SML GY	E.4
2584870000	CABTITE SE 4/2-3 SML GY	E.4
2584890000	CABTITE SE 2/5-6 SML GY	E.4
2584900000	CABTITE SE 2/4-5 SML GY	E.4
2584910000	CABTITE SE 33-34 LRG GY	E.4
2584920000	CABTITE SE 32-33 LRG GY	E.4

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2595510000	CABTITE SE 33-34 LRG BK	E.4
2595520000	CABTITE SE 34-35 LRG BK	E.4
2595530000	CABTITE SE 34-35 LRG GY	E.4

2630000000

2635120000	CABTITE SC M5X25 SET	E.5
2635120000	CABTITE SC M5X25 SET	E.6
2637360000	CABTITE TOOL ATSE PA	E.5
2637360000	CABTITE TOOL ATSE PA	E.6

2650000000

2652280000	CABTITE SE 3/5-6 SML BK	E.4
2652290000	CABTITE SE 3/5-6 SML GY	E.4
2652300000	CABTITE BP 2MM PA	E.8
2652310000	CABTITE BP 3MM PA	E.8
2652320000	CABTITE BP 4MM PA	E.8
2652330000	CABTITE BP 5MM PA	E.8
2652340000	CABTITE BP 6MM PA	E.8
2652350000	CABTITE BP 7MM PA	E.8
2652360000	CABTITE BP 8MM PA	E.8
2652370000	CABTITE BP 9MM PA	E.8
2652380000	CABTITE BP 10MM PA	E.8
2652400000	CABTITE BP 12MM PA	E.8
2652410000	CABTITE BP 13MM PA	E.8
2652420000	CABTITE BP 14MM PA	E.8
2652430000	CABTITE BP 17MM PA	E.8
2652440000	CABTITE BP 20MM PA	E.8
2652450000	CABTITE BP 21MM PA	E.8
2652460000	CABTITE BP 25MM PA	E.8
2652470000	CABTITE BP 28MM PA	E.8
2652480000	CABTITE BP 35MM PA	E.8

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2721930000	VG M12 EXE 4-6,5 CR7J G4	D.38
2721940000	VG M16 EXE 5-8 CR7J G4	D.38
2721950000	VG M16 EXE 6-10 CR7J G4	D.38
2721960000	VG M20 EXE 7-12 CR7J G4	D.38
2721970000	VG M20 EXE 7-13 CR7J G4	D.38
2721980000	VG M20 EXE 11-14 CR7J G4	D.38
2721990000	VG M25 EXE 12-17 CR7J G4	D.38
2722000000	VG M25 EXE 14-18 CR7J G4	D.38
2722010000	VG M32 EXE 16-21 CR7J G4	D.38
2722020000	VG M32 EXE 19-25 CR7J G4	D.38
2722030000	VG M40 EXE 20-28 CR7J G4	D.38
2722040000	VG M40 EXE 23-32 CR7J G4	D.38
2722050000	VG M50 EXE 31-38 CR7J G4	D.38
2722060000	VG M63 EXE 35-44 CR7J G4	D.38
2722070000	VG M12 EXE 4-6,5 SI7J G4	D.39
2722080000	VG M16 EXE 5-8 SI7J G4	C.152
2722080000	VG M16 EXE 5-8 SI7J G4	D.39
2722090000	VG M16 EXE 6-10 SI7J G4	C.152
2722090000	VG M16 EXE 6-10 SI7J G4	D.39
2722100000	VG M20 EXE 7-12 SI7J G4	D.39
2722110000	VG M20 EXE 7-13 SI7J G4	C.153
2722110000	VG M20 EXE 7-13 SI7J G4	C.154
2722110000	VG M20 EXE 7-13 SI7J G4	C.155
2722110000	VG M20 EXE 7-13 SI7J G4	C.156
2722110000	VG M20 EXE 7-13 SI7J G4	D.39
2722120000	VG M20 EXE 11-14 SI7J G4	C.153
2722120000	VG M20 EXE 11-14 SI7J G4	C.154
2722120000	VG M20 EXE 11-14 SI7J G4	C.155
2722120000	VG M20 EXE 11-14 SI7J G4	C.156
2722120000	VG M20 EXE 11-14 SI7J G4	D.39
2722130000	VG M25 EXE 12-17 SI7J G4	D.39
2722140000	VG M25 EXE 14-18 SI7J G4	D.39
2722150000	VG M32 EXE 16-21 SI7J G4	D.39
2722160000	VG M32 EXE 19-25 SI7J G4	D.39
2722170000	VG M40 EXE 20-28 SI7J G4	D.39
2722180000	VG M40 EXE 23-32 SI7J G4	D.39
2722190000	VG M50 EXE 31-38 SI7J G4	D.39
2722200000	VG M63 EXE 35-44 SI7J G4	D.39
2722210000	VG M12 EXI 4-6,5 CR7J G4	D.38
2722220000	VG M16 EXI 5-8 CR7J G4	D.38
2722230000	VG M16 EXI 6-10 CR7J G4	D.38
2722240000	VG M20 EXI 7-12 CR7J G4	D.38
2722250000	VG M20 EXI 7-13 CR7J G4	D.38

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2722260000	VG M20 EXI 11-14 CR7J G4	D.38
2722270000	VG M25 EXI 12-17 CR7J G4	D.38
2722280000	VG M25 EXI 14-18 CR7J G4	D.38
2722290000	VG M32 EXI 16-21 CR7J G4	D.38
2722300000	VG M32 EXI 19-25 CR7J G4	D.38
2722310000	VG M40 EXI 20-28 CR7J G4	D.38
2722320000	VG M40 EXI 23-32 CR7J G4	D.38
2722330000	VG M50 EXI 31-38 CR7J G4	D.38
2722340000	VG M63 EXI 35-44 CR7J G4	D.38
2722350000	VG M12 EXI 4-6,5 SI7J G4	D.39
2722360000	VG M16 EXI 5-8 SI7J G4	D.39
2722370000	VG M16 EXI 6-10 SI7J G4	D.39
2722380000	VG M20 EXI 7-12 SI7J G4	D.39
2722390000	VG M20 EXI 7-13 SI7J G4	D.39
2722400000	VG M20 EXI 11-14 SI7J G4	D.39
2722410000	VG M25 EXI 12-17 SI7J G4	D.39
2722420000	VG M25 EXI 14-18 SI7J G4	D.39
2722430000	VG M32 EXI 16-21 SI7J G4	D.39
2722440000	VG M32 EXI 19-25 SI7J G4	D.39
2722450000	VG M40 EXI 20-28 SI7J G4	D.39
2722460000	VG M40 EXI 23-32 SI7J G4	D.39
2722470000	VG M50 EXI 31-38 SI7J G4	D.39
2722480000	VG M63 EXI 35-44 SI7J G4	D.39

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3018950000	MP TBF 30/19	C.170

3070000000

3073000000	MOPL K11 STAHL	C.100
3073020000	MOPL K21 STAHL	C.102
3073040000	MOPL K31 STAHL	C.104
3073050000	MOPL K32 STAHL	C.105
3073060000	MOPL K4 STAHL	C.106
3073070000	MOPL K41 STAHL	C.107
3073080000	MOPL K5 STAHL	C.108
3073090000	MOPL K51 STAHL	C.109
3073100000	MOPL K52 STAHL	C.110
3073110000	MOPL K6 STAHL	C.111
3073120000	MOPL K61 STAHL	C.112
3073130000	MOPL K7 STAHL	C.113
3073140000	MOPL K71 STAHL	C.114

3890000000

3896100000	SP M6 15 MSZN	C.52
3896100000	SP M6 15 MSZN	C.53
3896100000	SP M6 15 MSZN	C.54
3896100000	SP M6 15 MSZN	C.55
3896100000	SP M6 15 MSZN	C.56
3896100000	SP M6 15 MSZN	C.57
3896100000	SP M6 15 MSZN	C.58
3896100000	SP M6 15 MSZN	C.59
3896100000	SP M6 15 MSZN	C.60
3896100000	SP M6 15 MSZN	C.61
3896100000	SP M6 15 MSZN	C.62
3896200000	SP M6 20 MSZN	C.52
3896200000	SP M6 20 MSZN	C.53
3896200000	SP M6 20 MSZN	C.54
3896200000	SP M6 20 MSZN	C.55
3896200000	SP M6 20 MSZN	C.56
3896200000	SP M6 20 MSZN	C.57
3896200000	SP M6 20 MSZN	C.58
3896200000	SP M6 20 MSZN	C.59
3896200000	SP M6 20 MSZN	C.60
3896200000	SP M6 20 MSZN	C.61
3896200000	SP M6 20 MSZN	C.62
3896300000	SP M6 30 MSZN	C.52
3896300000	SP M6 30 MSZN	C.53
3896300000	SP M6 30 MSZN	C.54
3896300000	SP M6 30 MSZN	C.55
3896300000	SP M6 30 MSZN	C.56
3896300000	SP M6 30 MSZN	C.57
3896300000	SP M6 30 MSZN	C.58
3896300000	SP M6 30 MSZN	C.59
3896300000	SP M6 30 MSZN	C.60
3896300000	SP M6 30 MSZN	C.61
3896300000	SP M6 30 MSZN	C.62

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7906080000	BK 4/E	C.116

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8000003444	KL SET 12W4 S	C.116
8000003444	KL SET 12W4 S	C.150
8000003444	KL SET 12W4 S	C.155
8000003446	KLIPPON K41 2M25AB CSS	C.116
8000003447	KLIPPON K41 3M20AB CSS	C.116
8000003448	KLIPPON POK4 3M20AB CSS	C.150
8000003448	KLIPPON POK4 3M20AB CSS	C.155
8000003589	KLIPPON K41 M25WCSS EX	C.116
8000003591	KLIPPON K41 M20WCSS EX	C.116
8000003593	KLIPPON POK4 M20WCSS EX	C.150
8000003593	KLIPPON POK4 M20WCSS EX	C.155
8000003594	KLIPPON POK4 M20ZCSS EX	C.150
8000003594	KLIPPON POK4 M20ZCSS EX	C.155

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8000003889	TS15X5 ST POK 0808	C.132
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9535590000	HG MPC	C.180
9535590000	HG MPC	C.181
9535590000	HG MPC	C.182
9535590000	HG MPC	C.183
9535600000	MF MPC	C.178
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9535600000	MF MPC	C.181
9535600000	MF MPC	C.182
9535600000	MF MPC	C.183
9535680000	FPC 20/20/13 TRSP	C.184
9535680000	FPC 20/20/13 TRSP	C.185
9535690000	FPC 20/20/13 7035	C.184
9535690000	FPC 20/20/13 7035	C.185
9535700000	FPC 20/30/13 TRSP	C.184
9535700000	FPC 20/30/13 TRSP	C.185
9535710000	FPC 20/30/13 7035	C.184
9535710000	FPC 20/30/13 7035	C.185
9535720000	FPC 20/40/13 TRSP	C.184
9535720000	FPC 20/40/13 TRSP	C.186
9535730000	FPC 20/40/13 7035	C.184
9535730000	FPC 20/40/13 7035	C.186
9535740000	FPC 30/30/13 TRSP	C.184
9535740000	FPC 30/30/13 TRSP	C.186
9535750000	FPC 30/30/13 7035	C.184
9535750000	FPC 30/30/13 7035	C.186
9535760000	FPC 30/40/13 TRSP	C.184
9535760000	FPC 30/40/13 TRSP	C.187
9535770000	FPC 30/40/13 7035	C.184
9535770000	FPC 30/40/13 7035	C.187
9535810000	FPC 40/60/13 7035	C.184
9535810000	FPC 40/60/13 7035	C.187
9535820000	FPC 40/60/13 TRSP	C.184
9535820000	FPC 40/60/13 TRSP	C.187
9535920000	MP FPC 20/20	C.185
9535930000	MP FPC 20/30	C.185
9535940000	MP FPC 20/40	C.186
9535950000	MP FPC 30/30	C.186
9535960000	MP FPC 30/40	C.187
9535980000	MP FPC 40/60	C.187
9535990000	HG FPC	C.185
9535990000	HG FPC	C.186
9535990000	HG FPC	C.187
9536040000	MF FPC	C.185
9536040000	MF FPC	C.186
9536040000	MF FPC	C.187

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As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

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