



6

SKINTOP® Cable glands

Simply feed in the cable and twist. That's it. Our SKINTOP® cable glands provide secure connections in no time. The universal systems are simple but effective. They secure and center your cable, hermetically seal it, and guarantee optimum strain relief.

Application range

- Industrial machinery and plant engineering
- Drive systems
- Measurement and control technology
- Renewable energies
- Wherever cables need to be fastened securely and quickly

Non-metallic cable glands

- 497 SKINTOP® SLN/SLRN**
Strain relief with NPT thread
- 498 SKINTOP® SL/SLR**
Strain relief with PG thread
- 499 SKINTOP® SLM/SLRM**
Strain relief with metric thread
- 500 SKINTOP® CLICK/CLICK-R**
Strain relief with quick "click" insertion system
- 501 SKINTOP® ST-HF-M**
Halogen-free strain relief with metric thread
- 502 SKINTOP® SOLAR/SOLAR (plus)**
Strain relief for photovoltaic applications with metric thread
- 503 SKINTOP® FLEX**
Spiral strain relief with NPT, PG & metric thread
- 504 SKINTOP® CLICK FLEX**
Spiral strain relief with quick "click" insertion system
- 505 SKINTOP® BT/BT-M**
Bell-shaped strain relief with PG & metric thread
- 506 SKINTOP® K-M/KR-M ATEX plus**
Strain relief according to ATEX for hazardous areas with metric thread

Cable bushing systems

- 507 SKINTOP® MULTI** 
High-density multi-cable bushing system
- 508 SKINTOP® CUBE MULTI**
High-density multi-cable bushing system
- 510 SKINTOP® CUBE**
Modular multi-cable bushing system

Metallic cable glands

- 512 SKINTOP® MS-NPT/MSR-NPT**
Nickel-plated brass strain relief with NPT thread
- 513 SKINTOP® MS/MSR**
Nickel-plated brass strain relief with PG thread
- 514 SKINTOP® MS-XL/MSR-XL**
Nickel-plated brass strain relief with extended PG thread
- 515 SKINTOP® MS-M/MSR-M**
Nickel-plated brass strain relief with metric thread
- 516 SKINTOP® MS-M-XL/MSR-M-XL**
Nickel-plated brass strain relief with extended metric thread
- 517 SKINTOP® MS-M ATEX/MSR-M ATEX**
Nickel-plated brass strain relief according to ATEX for hazardous areas with metric thread
- 518 SKINTOP® INOX/INOX-R**
Hygienic stainless steel strain relief with NPT & metric thread

Strain relief cable glands

- 519 SKINTOP® HYGIENIC/HYGIENIC-R**
Hygienic stainless steel strain relief with FDA-approved sealing material with metric thread
- 520 SKINTOP® COLD/COLD-R**
Nickel-plated brass strain relief for extreme sub-zero temperatures with metric thread
- 521 SKINTOP® GRIP-M** 
Nickel-plated brass strain relief for high strain applications with metric thread

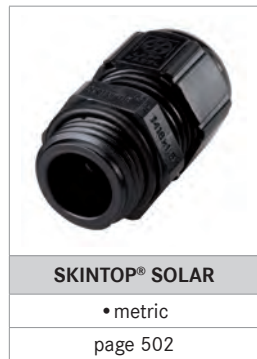
EMC cable glands

- 522 SKINTOP® MS-SC**
Nickel-plated strain relief for EMC applications with NPT, PG & metric thread
- 524 SKINTOP® MS-NPT BRUSH/MS-M BRUSH**
Nickel-plated brass strain relief for EMC applications with NPT & metric thread
- 525 SKINTOP® MS-M ATEX BRUSH**
Nickel-plated brass strain relief according to ATEX for EMC applications in hazardous areas
- 526 SKINTOP® INOX SC**
Hygienic stainless steel strain relief for EMC applications
- 527 SKINTOP® HYGIENIC SC** 
Hygienic stainless steel strain relief with FDA-approved sealing material for EMC applications

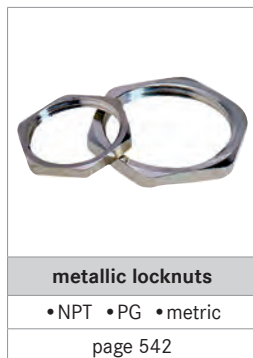
SKINDICHT® cable glands & clamps

- 528 SKINDICHT® SVFK**
Polystyrene strain relief connectors for flat & festoon cable with PG thread
- 529 SKINDICHT® SVF**
Brass strain relief connectors for flat & festoon cable with PG thread
- 530 SKINDICHT® CN/CN-M**
Chromium-nickel steel strain relief with PG & metric thread
- 531 SKINDICHT® SVRE/SVRE-M**
Nickel-plated brass cable clamp with PG & metric thread
- 532 SKINDICHT® SH**
Nickel-plated brass cable clamp with single saddle clamp and PG thread
- 533 SKINDICHT® SK**
Nickel-plated brass strain relief with double saddle clamp and PG thread
- 534 SKINDICHT® SKZ/SKZ-M**
Nickel-plated brass strain relief with double saddle clamp & additional sealing, PG & metric thread
- 535 SKINDICHT® SHV-M**
Nickel-plated brass strain relief with sealing capability up to 300 ft (10 bar) and metric thread
- 536 SKINDICHT® SR/SR-M**
Nickel-plated strain relief with single saddle clamp & special neoprene bushing, PG & metric thread
- 538 SKINDICHT® RWV**
Nickel-plated die cast zinc 90° elbow strain relief with PG thread

Non-metallic cable glands



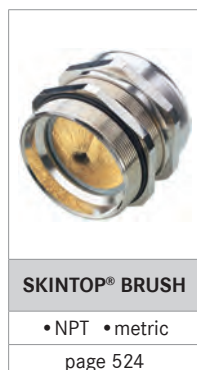
Metallic cable glands



Multi-cable bushing systems



EMC cable glands



SKINDICHT® cable glands & clamps



Accessories


non-metallic locknuts

• NPT • PG • metric

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metallic locknuts

• PG • metric

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SKINTOP® DIX bushing

• NPT • PG • metric

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plugs

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hole plugs

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SKINTOP® CLICK BLK

• metric

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reducers & enlargers

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adapters

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sealing rings

• PG • metric

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O-rings

• PG • metric

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Tools


SKINMATIC® RZ wrench

page 557


SKINMATIC® MH-Set

page 557


PTS4 wire stripper

page 557


KS 15 cable shears

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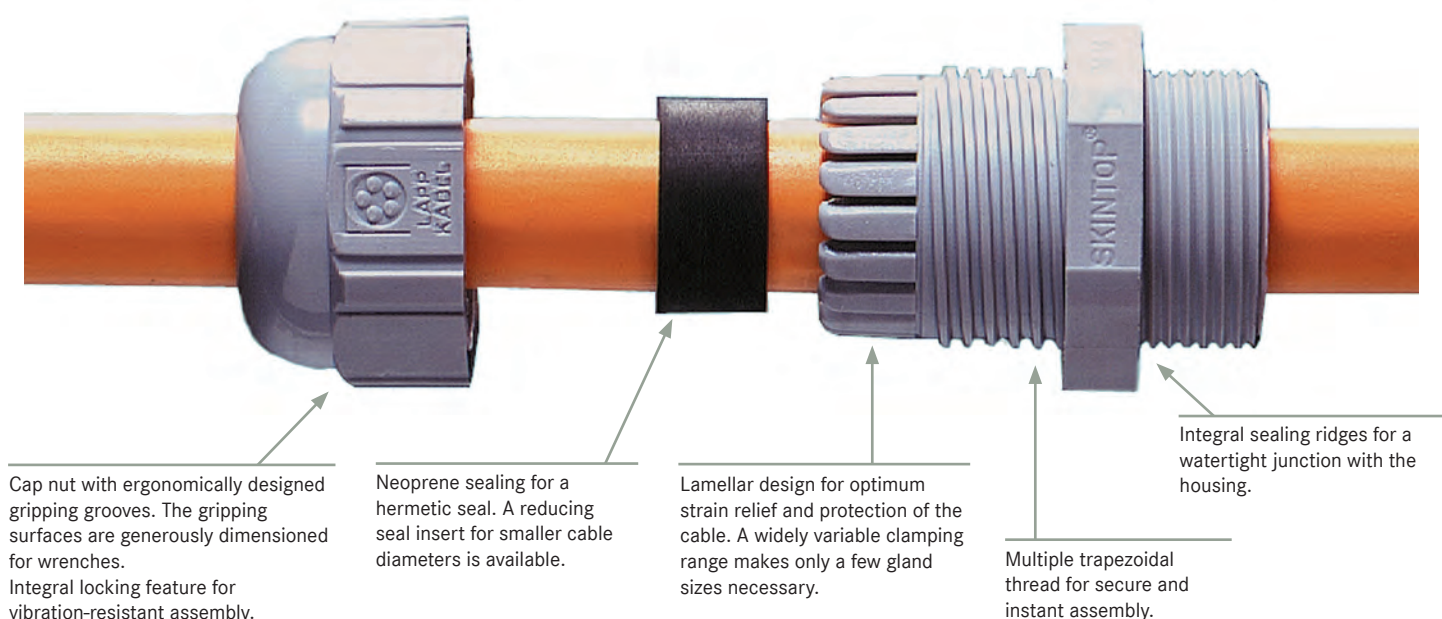

thread-cutting tools

page 558


SKINMATIC® QUICK set

page 558

SKINTOP® strain relief cable glands



Shown here are the carefully matched components of the SKINTOP® screw-type cable glands. These parts guarantee maximum reliability.

With SKINTOP® you can install the cable in an instant: just feed the cable in and turn the nut until tight. Your cable is centered, hermetically sealed, and completely strain relieved with a turn of the hand. If you do not wish to use your hands, you can work with a spanner wrench or SKINMATIC® RZ tool. Either way, with SKINTOP® you can achieve maximum reliability. SKINTOP® quality is continuously monitored to ensure a level of reliability that has resulted in many international approvals.

Resistance properties

Rated temperature:

- SKINTOP® NPT & PG: -20°C to +80°C
- SKINTOP® metric:
 - static: -40°C to +100°C
 - dynamic: -20°C to +100°C

Testing:

- SKINTOP® incandescent wire test to IEC 695, Part 2-1:
- test temperature: 750°C
- strain relief: to DIN VDE 0619
- protection class: IP68*
- Tested to DIN 40050 & 40052

Approvals:

UL #E146370
CSA #LR50370-10
VDE #57986 (metric threads)
SEV #100989

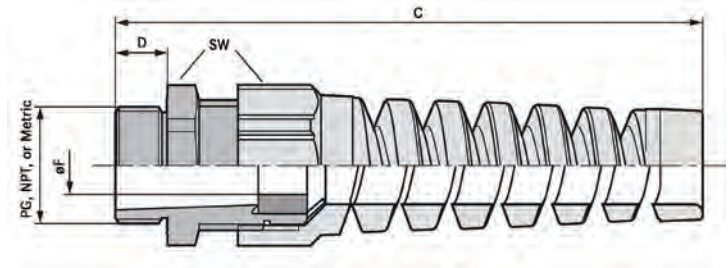
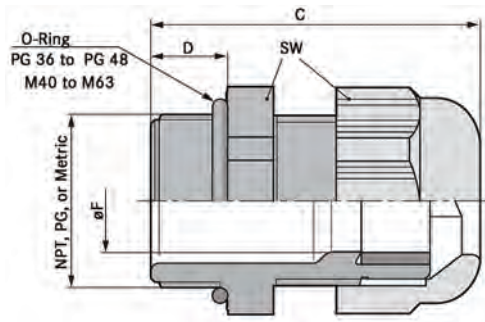
Chemical resistance:*

- + : resistant
- o : limited resistance
- : not resistant

- + alcohols
- + aromatic hydrocarbons
- + ethers
- + benzene
- o chlorinated hydrocarbons
- + esters
- + grease, animal/vegetable
- + fluorinated hydrocarbons
- + ketones
- + motor fuels
- + weak alkali solutions
- strong alkali solutions
- + petroleum oils
- + weak acids
- strong acids
- + trichloroethylene

* More detailed information on chemical resistance of plastics can be found in the Technical section on page 698.

SKINTOP® strain relief cable glands



Technical data

Material:	polyamide: flame retardant, self-extinguishing nylon with CR bushing	IP Protection:	up to 70 PSI - seal*: IP68 (Ingress Protection), comparable to NEMA 6 classification - metric: IP69 * All IP ratings are dependent on proper installation by the user
Temperature range:	-20°C to +80°C - NPT & PG: up to +100°C (short term) - metric: -20°C to +100°C	Resistance:	salt water, weak acids, weak alkalis, alcohol, ester, ketones, ether, benzene, gas, mineral oil, animal and vegetable oils, gasoline, oil, grease, and common solvents

SKINTOP® meets the most stringent demands of safety and operational reliability. SKINTOP® products can be used in panels, switches, control boxes, submersible pumps, appliances, and many other machine tool applications.

SKINTOP® glands provide both strain relief and a liquid-tight seal – all in one connector.

Patented Security:
Patent # P-2631996

International Approvals:
UL # E146370 Metric: VDE # 57986
CSA # LR50370-10 SEV # 100989

Unique design

SKINTOP® outperforms traditional connectors because the design consists of three parts, which do not require dismantling before use.

The internal ratchet mechanism allows the cap to be tightened without twisting the cord as it compresses. In tightening the cap, the lamellar fingers are pushed together to form a liquid-tight seal with the neoprene compression bushing.

Optimum seal

Complete liquid-tightness is achieved with a uniquely designed molded sealing ring and flange nut combined with a neoprene bushing and domed sealing cap.

Vibration-proof protection

An integrated locking mechanism includes an internal ratchet inside the sealing portion of the cord grip. This provides a self-locking and vibration-proof element that prevents the cap from loosening even when subjected to severe vibration.

Quick installation

The multi-trapezoidal thread requires just one twist to tighten the dome cap, automatically adjusting to the size of the cable and providing optimum strain relief and a liquid-tight seal.

Durability

SKINTOP® incorporates a heavy duty design that provides greater pullout strength and very reliable strain relief.

Easier handling

Larger ergonomic design and ridges in the dome cap provide easy gripping and mounting by hand or wrench.

Larger variable clamping range

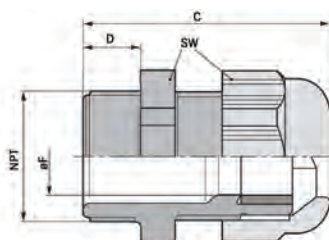
The uniquely designed lamellar fingers, combined with the optional reducer bushing, accommodates a broad range of cord and cable diameters. This results in a lower number of connectors required in inventory.

Resistant to impact at low temperatures

SKINTOP® cable glands can withstand impact at low temperatures of -20°C.

SKINTOP® SLN/SLRN

Strain relief with NPT thread



Complete the installation



SKINTOP®
DIX bushing
page 545



Plugs
page 522



SKINTOP®
GMP locknuts
page 541

SKINTOP® SLN/SLRN is a durable, liquid-tight, easy-to-assemble strain relief cable gland with NPT thread that is universally suited for all types of machinery & equipment, including automation, motion control, process control, and robotics. SKINTOP® SLRN includes reducer bushing.

Approvals



Application advantage

- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration-proof protection
- Multi-trapezoidal thread requires just one twist to tighten
- Generous high-quality neoprene bushing provides a liquid-tight and dust-proof hermetic seal

Technical data

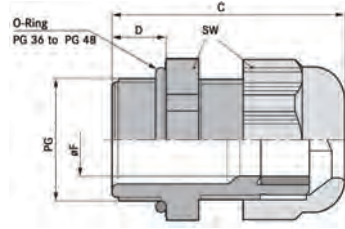
	Material:		Color:	black (RAL 9005), UV resistant gray (RAL 7001)
	- body:	polyamide		
	- bushing:	CR		
	Locknuts:	add SKINTOP® GMP, page 541	IP Protection:	70 PSI IP68, 5 bar NEMA 1, 12
			- seal:	
	Temperature range:			
	- static:	-40°C to +100°C		
	- dynamic:	-25°C to +80°C		

Part number		Thread	UL status	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
black	gray			in	mm				
Standard									
S2138	S1138	NPT ¾"	Recognized	0.138 - 0.315	3.5 - 8	0.748	1.693	0.591	100
S2112	S1112	NPT ½"	Listed	0.197 - 0.472	5 - 12	0.945	1.772	0.591	100
S2134	S1134	NPT ¾"	Listed	0.512 - 0.709	13 - 18	1.299	2.087	0.591	50
S2101	S1101	NPT 1"	Listed	0.748 - 1.000	19 - 25.4	1.654	2.362	0.591	25
Reducer bushing									
S2238	S1238	NPT ¾"	Recognized	0.079 - 0.236	2 - 6	0.748	1.693	0.591	100
S2212	S1212	NPT ½"	Listed	0.157 - 0.354	4 - 9	0.945	1.772	0.591	100
S2234	S1234	NPT ¾"	Listed	0.354 - 0.630	9 - 16	1.299	2.087	0.591	50
S2201	S1201	NPT 1"	Listed	0.551 - 0.984	14 - 25	1.654	2.362	0.591	25

Orders of 2000 pieces or more per item will be bulk packaged unless otherwise requested

SKINTOP® SL/SLR

Strain relief with PG thread



SKINTOP® SL/SLR is a durable, liquid-tight, easy-to-assemble strain relief cable gland with PG thread that is universally suited for all types of machinery & equipment, including automation, motion control, process control and robotics. SKINTOP® SLR includes reducer bushing.

Approvals



Application advantage

- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration-proof protection
- Multi-trapezoidal thread requires just one twist to tighten
- Generous high-quality neoprene bushing provides a liquid-tight and dust-proof hermetic seal

Technical data

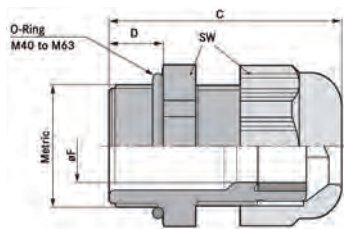
	Material:			Temperature range:	
	- body:	polyamide		- static:	-40°C to +100°C
	- bushing:	CR		- dynamic:	-20°C to +80°C
	Color:	black (RAL 9005), UV resistant		IP Protection:	70 PSI
		gray (RAL 7001)		- seal:	IP68, 5 bar NEMA 1, 12
	Locknuts:	included			

Part number with locknut		Part number without locknut*		Thread	UL status	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
black	gray	black	gray			in	mm				
Standard											
S2107	S1107	53015200	53015000	PG 7	Recognized	0.098 - 0.256	2.5 - 6.5	0.591	1.260	0.315	100
S2109	S1109	53015210	53015010	PG 9	Recognized	0.138 - 0.315	3.5 - 8.0	0.748	1.417	0.315	100
S2111	S1111	53015220	53015020	PG 11	Recognized	0.157 - 0.394	4 - 10	0.866	1.496	0.315	100
S2113	S1113	53015230	53015030	PG 13	Listed	0.236 - 0.472	6 - 12	0.945	1.614	0.354	100
S2116	S1116	53015240	53015040	PG 16	Listed	0.354 - 0.551	9 - 14	1.063	1.732	0.394	50
S2121	S1121	53015250	53015050	PG 21	Listed	0.512 - 0.709	13 - 18	1.299	1.929	0.433	50
S2129	S1129	53015260	53015060	PG 29	Recognized	0.551 - 0.984	14 - 25	1.654	2.205	0.433	25
S2136	S1136	53015270	53015070	PG 36	Listed	0.945 - 1.260	24 - 32	2.087	2.598	0.512	10
S2142	S1142	53015280	53015080	PG 42	Recognized	1.378 - 1.496	35 - 38	2.362	2.677	0.512	5
S2148	S1148	53015290	53015090	PG 48	Listed	1.535 - 1.732	39 - 44	2.559	2.717	0.551	5
Reducer bushing											
S2207	S1207	53015300	53015100	PG 7	Recognized	0.059 - 0.197	1.5 - 5	0.591	1.260	0.315	100
S2209	S1209	53015310	53015110	PG 9	Recognized	0.079 - 0.236	2 - 6	0.748	1.417	0.315	100
S2211	S1211	53015320	53015120	PG 11	Recognized	0.079 - 0.276	2 - 7	0.866	1.496	0.315	100
S2213	S1213	53015330	53015130	PG 13	Listed	0.157 - 0.354	4 - 9	0.945	1.614	0.354	100
S2216	S1216	53015340	53015140	PG 16	Listed	0.236 - 0.472	6 - 12	1.063	1.732	0.394	50
S2221	S1221	53015350	53015150	PG 21	Listed	0.354 - 0.630	9 - 16	1.299	1.929	0.433	50
S2229	S1229	53015360	53015160	PG 29	Recognized	0.433 - 0.787	11 - 20	1.654	2.205	0.433	25
S2236	S1236	53015370	53015170	PG 36	Listed	0.669 - 1.024	17 - 26	2.087	2.598	0.512	10
S2242	S1242	53015380	53015180	PG 42	Recognized	0.866 - 1.220	22 - 31	2.362	2.677	0.512	5
S2248	S1248	53015390	53015190	PG 48	Listed	1.024 - 1.378	26 - 35	2.559	2.717	0.551	5

* The use of a locknut is required per UL if the end-use application consists of inserting the cable gland through a non-threaded hole
Orders of 2000 pieces or more per item will be bulk packaged unless otherwise requested

SKINTOP® SLM/SLRM

Strain relief with metric thread



SKINTOP® SLM/SLRM is a durable, liquid-tight, easy-to-assemble strain relief cable gland with metric thread that is universally suited for all types of machinery & equipment, including automation, motion control, process control, and robotics. SKINTOP® SLRM includes reducer bushing.

Approvals



Application advantage

- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration-proof protection
- Multi-trapezoidal thread requires just one twist to tighten
- Generous high-quality neoprene bushing provides a liquid-tight and dust-proof hermetic seal

Technical data

	Material:			Temperature range:	
	- body:	polyamide		- static:	-40°C to +100°C
	- bushing:	CR		- dynamic:	-20°C to +100°C
	Color:	black (RAL 9005), UV resistant		IP Protection:	70 PSI
		gray (RAL 7001)		- seal:	IP68, 5 bar
	Locknuts:	included			IP69
					NEMA 1, 12

Part number with locknut		Part number without locknut*		Thread	UL status	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
black	gray	black	gray			in	mm				
Standard											
S2507	S1507	53111200	53111000	M12 x 1.5	Recognized	0.138 - 0.276	3.5 - 7	0.591	1.181	0.315	100
S2509	S1509	53111210	53111010	M16 x 1.5**	Recognized	0.157 - 0.394	4 - 10	0.748	1.339	0.315	100
S2513	S1513	53111220	53111020	M20 x 1.5**	Listed	0.236 - 0.512	6 - 13	0.984	1.457	0.354	100
S2516	S1516	53111230	53111030	M25 x 1.5**	Listed	0.315 - 0.669	8 - 17	1.181	1.575	0.394	50
S2521	S1521	53111240	53111040	M32 x 1.5	Listed	0.354 - 0.827	9 - 21	1.417	1.850	0.394	25
S2529	S1529	53111250	53111050	M40 x 1.5	Listed	0.630 - 1.102	16 - 28	1.811	2.047	0.394	10
S2536	S1536	53111260	53111060	M50 x 1.5	Listed	1.063 - 1.339	27 - 34	2.165	2.441	0.472	5
S2542	S1542	53111270	53111070	M63 x 1.5	Listed	1.339 - 1.772	34 - 45	2.598	2.795	0.472	5
Reducer bushing											
S2607	S1607	53111300	53111100	M12 x 1.5	Recognized	0.079 - 0.197	2 - 5	0.591	1.181	0.315	100
S2609	S1609	53111310	53111110	M16 x 1.5**	Recognized	0.138 - 0.276	3.5 - 7	0.748	1.339	0.315	100
S2613	S1613	53111320	53111120	M20 x 1.5**	Listed	0.157 - 0.394	4 - 10	0.984	1.457	0.354	100
S2616	S1616	53111330	53111130	M25 x 1.5**	Listed	0.197 - 0.512	5 - 13	1.181	1.575	0.394	50
S2621	S1621	53111340	53111140	M32 x 1.5	Listed	0.236 - 0.591	6 - 15	1.417	1.850	0.394	25
S2629	S1629	53111350	53111150	M40 x 1.5	Listed	0.354 - 0.906	9 - 23	1.811	2.047	0.394	10
S2636	S1636	53111360	53111160	M50 x 1.5	Listed	0.945 - 1.142	24 - 29	2.165	2.441	0.472	5
S2642	S1642	53111370	53111170	M63 x 1.5	Listed	1.102 - 1.535	28 - 39	2.598	2.795	0.472	5

* The use of a locknut is required per UL if the end-use application consists of inserting the cable gland through a non-threaded hole

** Metric sizes M16, M20, and M25 also available in an extended thread version. To maintain UL rating, please use a locknut

Orders of 2000 pieces or more per item will be bulk packaged unless otherwise requested

SKINTOP® CLICK/CLICK-R

Strain relief with quick "click" insertion system



Complete the installation

SKINTOP®
DIX bushing
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Removal tool

SKINTOP® CLICK is an innovative cable insertion system that provides fast, highly flexible assembly. Easy snap-in-place installation results in fixed, centered, strain relief with maximum protection in seconds. Mounting hole is based on metric thread. SKINTOP® CLICK-R includes reducer bushing.

Recommended applications

Applications where locknut installation is difficult to reach or to secure, such as dual wall enclosures and temperature controlled assemblies where insulation is used

Approvals



1 removal tool included per pack.
Additional tools are available; see table for part numbers.

Technical data



Material:

- body: special polyamide
- seal: special elastomer



Temperature range:

- static: -40°C to +100°C
- dynamic: -20°C to +100°C



Color:

black (RAL 9005), UV resistant
gray (RAL 7001)



IP Protection:

- M12: IP68, 4 bar
- M16 - M25: IP68, 5 bar
- M32: IP68, 1 bar

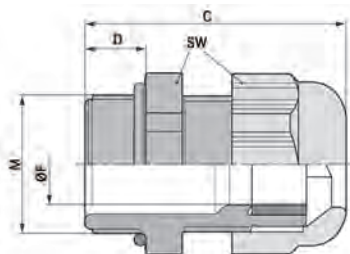
Part number*		Mounting hole size	UL status	Clamping range (øF)		Wrenching flats (SW1/SW2)	Overall length (C)	Thread length (D)	Hole (øM)	Pack size	Removal tool
black	gray				in	mm	in	in	in		
Standard											
53112923	53112921	M12	Recognized	0.177–0.276	4.5–7	0.591/0.709	1.576	0.315	0.484 (-.008)	50	53112696
53112882	53112876	M16	Recognized	0.197–0.394	5–9	0.748/0.866	1.654	0.315	0.642 (-.008)	50	53112697
53112883	53112877	M20	Listed	0.276–0.512	7–13	0.985/1.063	1.792	0.315	0.799 (-.008)	25	53112698
53112884	53112878	M25	Listed	0.354–0.669	9–17	1.182/1.339	1.910	0.315	0.996 (-.008)	25	53112699
53112924	53112922	M32	Listed	0.433–0.787	11–20	1.417/1.576	2.167	0.315	1.272 (-.008)	25	53112797
Reducer bushing											
53112929	53112927	M12	Recognized	0.1385–0.197	3.5–5	0.591/0.709	1.576	0.315	0.484 (-.008)	50	53112696
53112885	53112879	M16	Recognized	0.157–0.276	4–7	0.748/0.866	1.654	0.315	0.642 (-.008)	50	53112697
53112886	53112880	M20	Listed	0.197–0.394	5–10	0.985/1.063	1.792	0.315	0.799 (-.008)	25	53112698
53112887	53112881	M25	Listed	0.236–0.512	6–13	1.182/1.339	1.910	0.315	0.996 (-.008)	25	53112699
53112931	53112928	M32	Listed	0.276–0.591	7–15	1.417/1.576	2.167	0.315	1.272 (-.008)	25	53112797

* Suitable for wall thickness of 1 - 4 mm (0.039 - 0.157 in)

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® ST-HF-M

Halogen-free strain relief with metric thread



Complete the installation

SKINTOP®
GMP-HF:
page 541

SKINTOP® ST-HF-M is an easy-to-assemble, halogen-free, metric cable gland for use when personal and property protection is a priority such as public buildings, underground railways, mass transportation systems, ventilation systems, and industrial plants.

Approvals



Application advantage

- Completely halogen-free providing safe LSZH performance
- Extremely flame-retardant and self-extinguishing with no dripping
- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration-proof protection
- Multi-trapezoidal thread requires just one twist to tighten

Technical data

Material:

- body: halogen-free polyamide, V-0 per UL 94
- bushing: halogen-free
- O-ring: halogen-free

RAL Color:

light gray (RAL 7035)

Temperature range:

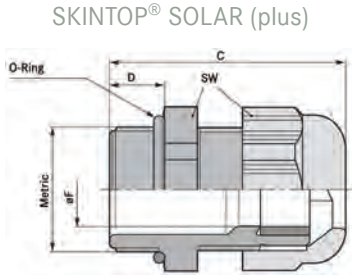
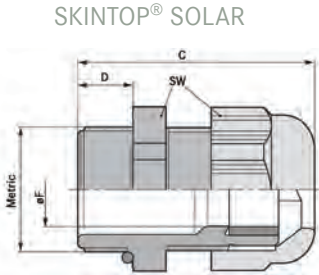
- static: -40°C to +100°C
- dynamic: -20°C to +100°C

IP Protection:

IP68, 5 bar
(exceeds NEMA 6/6P pressure rating)

Part number	Thread	Clamping range (øF)		Wrenching flats (SW)	Overall length (C)	Thread length (D)	Pack size
		in	mm	in	in	in	
Standard							
53111407	M12 x 1.5	0.157 - 0.216	4 - 5.5	0.591	1.182	0.315	100
53111417	M16 x 1.5	0.177 - 0.354	4.5 - 9	0.748	1.339	0.315	100
53111427	M20 x 1.5	0.276 - 0.512	7 - 13	0.985	1.457	0.354	100
53111437	M25 x 1.5	0.354 - 0.669	9 - 17	1.182	1.576	0.394	50
53111447	M32 x 1.5	0.433 - 0.827	11 - 21	1.418	1.851	0.394	25
53111457	M40 x 1.5	0.748 - 1.103	19 - 28	1.812	2.048	0.394	10
53111467	M50 x 1.5	1.063 - 1.379	27 - 35	2.167	2.442	0.472	5
53111477	M63 x 1.5	1.339 - 1.773	34 - 45	2.600	2.797	0.472	5

SKINTOP® SOLAR/SOLAR (plus)
Strain relief for photovoltaic applications with metric thread



Complete the installation



SKINTOP®
DIX bushing
page 545

SKINTOP® SOLAR cable glands are designed to meet the increasingly strict requirements for solar equipment. The glands are made of a specially-developed polycarbonate compound, guaranteeing excellent weather resistance in hot conditions, rain, snow or ice. SKINTOP® glands can also save space whenever multiple cables are routed to the combiner box.

Approvals



Application advantage

- UV and weather resistant per UL F1 for outdoor use
- Passes cold impact test per UL 1703/UL 746C
- Excellent strain relief
- Permanent vibration protection
- Extremely flame-retardant: V-0 per UL 94/94-5VA

Technical data

Material:		RAL Color:	black (RAL 9005), UV resistant
- SKINTOP® SOLAR:		IP Protection:	IP68, 5 bar NEMA 1, 12
- body:	polycarbonate	Approvals:	passes cold impact test per UL 1703/ UL 746C
- seal:	CR		
- SKINTOP® SOLAR (plus):			
- body:	polycarbonate		
- seal:	silicone		
- O-ring:	silicone		
Temperature range:			
- SKINTOP® SOLAR:	-40°C to +100°C		
- SKINTOP® SOLAR (plus):	-40°C to +125°C		

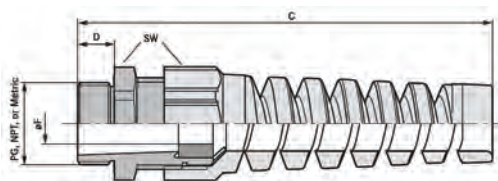
Part number		Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
SKINTOP® SOLAR	SKINTOP® SOLAR (plus)		in	mm				
53113300	53113321	M12 x 1.5	0.137 - 0.276	3.5 - 7	0.591	1.418	0.591	100
53113310*	53113331	M16 x 1.5	0.276 - 0.354	7 - 9	0.748	1.339	0.315	100

* UL Recognized only when used with an O-ring

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

SKINTOP® FLEX

Spiral strain relief with NPT, PG & metric thread



Complete the installation

SKINTOP®
GMP locknuts
page 541

SKINTOP® FLEX is a liquid-tight, spiral strain relief that offers additional safety against overstress and conductor breakage. It is ideally suited for hand held equipment, moving machinery, and robotics.

■ Approvals: NPT & PG



■ Approvals: metric



■ Application advantage

- Superior bending protection for cable conservation and functional reliability
- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration-proof protection
- Multi-trapezoidal thread requires just one twist to tighten
- Generous high-quality neoprene bushing provides a liquid-tight and dust-proof hermetic seal

■ Technical data

**Material:**

- body: polyamide
- bushing: CR

**Temperature range:**

- NPT & PG: -20°C to +80°C
- metric: -20°C to +100°C

**Color:**

black (RAL 9005), UV resistant
gray (RAL 7001)

**IP Protection:**

- seal: 70 PSI
IP68, 5 bar
NEMA 1, 12

**Locknuts:**

included with PG & metric sizes,
NPT locknuts available, page 541

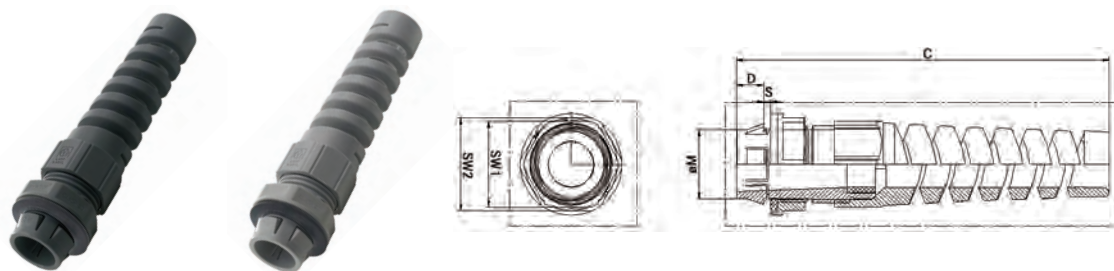
Part number with locknut		Part number without locknut*		Thread	UL status	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
black	gray	black	gray			in	mm				
Standard NPT											
—	—	S2338	S1338	NPT ¾"	Recognized	0.137 - 0.315	3.5 - 8	0.748	3.230	0.591	100
—	—	S2312	S1312	NPT ½"	Listed	0.197 - 0.472	5 - 12	0.945	4.097	0.591	100
—	—	S2334	S1334	NPT ¾"	Listed	0.512 - 0.709	13 - 18	1.300	5.240	0.591	50
Reducer NPT											
—	—	S2438	—	NPT ¾"	Recognized	0.079 - 0.236	2 - 6	0.748	3.228	0.591	100
—	—	S2412	S1412	NPT ½"	Listed	0.157 - 0.354	4 - 9	0.945	4.094	0.591	50
—	—	S2434	S1434	NPT ¾"	Listed	0.354 - 0.630	9 - 16	1.299	5.236	0.591	25
Standard PG											
S2307	S1307	53015800	53015600	PG 7	Recognized	0.098 - 0.256	2.5 - 6.5	0.591	2.442	0.315	100
S2309	S1309	53015810	53015610	PG 9	Recognized	0.137 - 0.315	3.5 - 8	0.748	2.895	0.315	100
S2311	S1311	53015820	53015620	PG 11	Recognized	0.157 - 0.394	4 - 10	0.866	3.388	0.315	100
S2313	S1313	53015830	53015630	PG 13	Listed	0.236 - 0.472	6 - 12	0.945	3.861	0.354	50
S2316	S1316	53015840	53015640	PG 16	Listed	0.354 - 0.551	9 - 14	1.063	4.393	0.394	25
S2321	S1321	53015850	53015650	PG 21	Listed	0.512 - 0.709	13 - 18	1.300	5.082	0.433	25
Reducer PG											
S2407	S1407	53015900	53015700	PG 7	Recognized	0.059 - 0.197	1.5 - 5	0.591	2.441	0.315	100
S2409	S1409	53015910	53015710	PG 9	Recognized	0.079 - 0.236	2 - 6	0.748	2.894	0.315	100
S2411	S1411	53015920	53015720	PG 11	Recognized	0.079 - 0.276	2 - 7	0.866	3.386	0.315	100
S2413	S1413	53015930	53015730	PG 13	Listed	0.157 - 0.354	4 - 9	0.945	3.858	0.354	50
S2416	S1416	53015940	53015740	PG 16	Listed	0.236 - 0.472	6 - 12	1.063	4.399	0.394	25
S2421	S1421	53015950	53015750	PG 21	Listed	0.354 - 0.630	9 - 16	1.299	5.079	0.433	25
Standard metric											
S2707	S1707	53111700	53111600	M12 x 1.5	Recognized	0.137 - 0.276	3.5 - 7	0.591	2.521	0.315	100
S2709	S1709	53111710	53111610	M16 x 1.5	Recognized	0.177 - 0.394	4.5 - 10	0.748	3.388	0.315	100
S2713	S1713	53111720	53111620	M20 x 1.5	Listed	0.276 - 0.512	7 - 13	0.985	3.979	0.315	50
S2716	S1716	53111730	53111630	M25 x 1.5	Listed	0.354 - 0.669	9 - 17	1.182	4.925	0.354	25
S2721	S1721	53111740	53111640	M32 x 1.5	Listed	0.433 - 0.827	11 - 21	1.418	5.870	0.394	25

* The use of a locknut is required per UL if the end-use application consists of inserting the cable gland through a non-threaded hole
Orders of 2000 pieces or more per item will be bulk packaged unless otherwise requested

If not otherwise specified, all values relating to the product are nominal values.
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SKINTOP® CLICK FLEX

Spiral strain relief with quick "click" insertion system



Complete the installation



Removal tool

SKINTOP® CLICK FLEX is an innovative cable insertion system that provides fast, highly flexible assembly. Easy snap-in-place installation results in fixed, centered, strain relief with maximum protection in seconds. Liquid-tight spiral strain relief offers additional safety against overstress and conductor breakage for applications such as hand-held equipment, moving machinery, and robotics. Mounting hole is based on metric thread.

Approvals**Accessories**

1 disassembly tool included per pack.
Additional tools are available; see table
for part numbers.

Application advantage

- Up to 70% installation time savings due to innovative CLICK system
- Ideal for hard-to-reach dual wall enclosures and limited access spaces
- Reduced inventory as no locknuts are required
- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration-proof protection

Technical data**Material:**

- body: special polyamide
- seal: special elastomer

**Temperature range:**

-20°C to +100°C

**IP Protection:**

- M12: IP68, 4 bar
- M16 - M32: IP68, 5 bar
(exceeds NEMA 6/6P pressure rating)

**Color:**

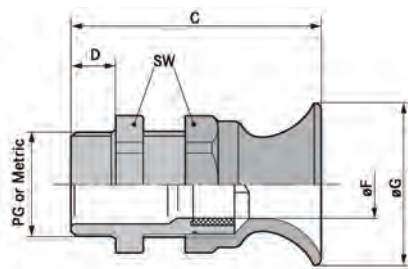
black (RAL 9005), UV resistant
gray (RAL 7001)

Part number		Mounting hole size	UL status	Clamping range (øF)		Wrenching flats (SW1) (SW2)		Overall length (C) in	Thread length (D) in	Hole (øM) in	Pack size	Removal tool
black	gray			in	mm	in	in					
53112936	53112934	M12	Recognized	0.138 - 0.276	3.5 - 7	0.591	0.709	2.915	0.315	0.484 (-.008)	50	53112696
53112909	53112906	M16	Recognized	0.197 - 0.354	5 - 9	0.748	0.866	3.703	0.315	0.642 (-.008)	50	53112697
53112911	53112907	M20	Listed	0.276 - 0.512	7 - 13	0.985	1.063	4.255	0.315	0.799 (-.008)	25	53112698
53112912	53112908	M25	Listed	0.354 - 0.669	9 - 17	1.182	1.339	5.003	0.315	0.996 (-.008)	25	53112699
53112937	53112935	M32	Listed	0.433 - 0.787	11 - 20	1.418	1.576	6.107	0.315	1.272 (-.008)	25	53112797

If not otherwise specified, all values relating to the product are nominal values.
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SKINTOP® BT/BT-M

Bell-shaped strain relief with PG & metric thread



The SKINTOP® BT/BT-M bell-shape provides protection against excessive bending of flexible cables and wires used on hand-held equipment, flexing machine parts, and apparatus engineering.

Approvals



Application advantage

- Excellent bending protection for cable protection and functional reliability
- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration-proof protection
- Multi-trapezoidal thread requires just one twist to tighten

Technical data



Material:

- body: polyamide
- bushing: CR



Temperature range:

-20°C to +80°C



IP Protection:

IP68, 5 bar
NEMA 1, 12

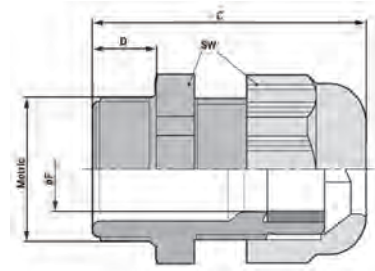
Color:

gray (RAL 7001)

Part number	Thread	UL status	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
			in	mm				
PG								
53015410	PG 9	Listed	0.137 - 0.315	3.5 - 8	0.748	1.690	0.315	100
53015420	PG 11	Listed	0.157 - 0.394	4 - 10	0.866	1.879	0.315	100
53015430	PG 13	Listed	0.236 - 0.472	6 - 12	0.945	2.048	0.354	50
53015440	PG 16	Listed	0.354 - 0.551	9 -14	1.063	2.202	0.394	50
53015450	PG 21	Listed	0.512 - 0.709	13 - 18	1.300	2.537	0.433	50
Metric								
53017420	M16 x 1.5	Recognized	0.137 - 0.315	3.5 - 8	0.748	1.773	0.472	100
53017430	M20 x 1.5	Listed	0.197 - 0.472	5 - 12	0.945	2.127	0.512	50
53017440	M25 x 1.5	Listed	0.354 - 0.551	9 - 14	1.063	2.245	0.512	50

SKINTOP® K-M/KR-M ATEX plus

Strain relief according to ATEX for hazardous areas with metric thread



SKINTOP® K-M/KR-M ATEX plus was developed for use in areas with risk of explosion and cables used with fail-safe circuits in housings and devices that require class "e" security. It is recommended for use in the chemical and petrochemical industry, mobile offshore, and marine applications.

Approvals**Application advantage**

- Equipment Group II, Category 2G + 1D
- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration-proof protection
- Multi-trapezoidal thread requires just one twist to tighten

Technical data

	Material:			Locknuts:	not permitted
	- body:	special polyamide			
	- seal:	special elastomer			
	- O-ring:	CR			
	Color:	black (RAL 9005), UV resistant		Temperature range:	-20 °C to +80 °C
		blue (RAL 5015)			
				IP Protection:	IP68, 10 bar

Part number		Thread	Clamping range (øF)		Wrenching flats	Overall length	Thread length	Pack size
black	blue		in	mm	(SW) in	(C) in	(D) in	
Standard								
54115200	54115400	M12 x 1.5	0.118 - 0.216	3 - 5.5	0.591	1.182	0.315	50
54115210	54115410	M16 x 1.5	0.276 - 0.354	7 - 9	0.748	1.339	0.315	50
54115220	54115420	M20 x 1.5	0.276 - 0.512	7 - 13	0.985	1.496	0.354	50
54115230	54115430	M25 x 1.5	0.433 - 0.669	11 - 17	1.182	1.576	0.394	25
54115240	54115440	M32 x 1.5	0.472 - 0.827	12 - 21	1.418	1.851	0.394	25
54115250	54115450	M40 x 1.5	0.748 - 1.103	19 - 28	1.812	2.048	0.394	10
54115260	54115460	M50 x 1.5	1.063 - 1.379	27 - 35	2.167	2.442	0.472	5
54115270	54115470	M63 x 1.5	1.457 - 1.773	37 - 45	2.600	2.797	0.472	5
Reducer bushing								
54115205	54115405	M12 x 1.5	0.078 - 0.157	2 - 4	0.591	1.182	0.315	50
54115215	54115415	M16 x 1.5	0.157 - 0.236	4 - 6	0.748	1.339	0.315	50
54115225	54115425	M20 x 1.5	0.197 - 0.394	5 - 10	0.984	1.496	0.354	50
54115235	54115435	M25 x 1.5	0.236 - 0.512	6 - 13	1.181	1.576	0.394	25
54115245	54115445	M32 x 1.5	0.354 - 0.591	9 - 15	1.417	1.851	0.394	25
54115255	54115455	M40 x 1.5	0.630 - 0.906	16 - 23	1.811	2.048	0.394	10
54115265	54115465	M50 x 1.5	0.866 - 1.142	22 - 29	2.165	2.442	0.472	5
54115275	54115475	M63 x 1.5	1.142 - 1.536	29 - 39	2.598	2.797	0.472	5

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® MULTI

High-density multi-cable bushing system

NEW

version 1



version 2



version 3



version 4



SKINTOP® MULTI



SKINTOP® MULTI provides the highest degree of protection (IP68) of LAPP's range of multi-cable bushing systems while providing a frameless, low profile design. The adhesive effect of the gel allows for very easy positioning at the housing during assembly.

Application advantage

- Easy assembly with high packing density
- Optimum strain relief of the entire cable bundle
- Large clamping range: 4 mm and AS-i bus entry system due to gel technology with innovative membrane technology
- UV, ozone, and oil resistant
- Fits 24-pole connector mounting cutouts (36 x 112 mm)

Approvals



Complete the installation



Rectangular
hole punch
page 430

Recommended applications

Areas where many cables and wires need to be inserted into housing with minimum space requirements; with cables that have not been assembled and media conduits; control systems; control cabinet and apparatus construction.

Technical data



Material:

- frame: polycarbonate
- seal: gel



Temperature range:

-30°C to +110°C



IP Protection:

IP68



Color:

black

Part number	Number of bushings	Number of entries x cable diameter	
		in	mm
Version 1			
52220065	22	6 x 0.315 - 0.472 16 x 0.118 - 0.276	6 x 8 - 12 16 x 3 - 7
Version 2			
52220073	21	5 x 0.079 - 0.236 8 x 0.157 - 0.315 3 x 0.197 - 0.354 2 x 0.315 - 0.472 1 x 0.472 - 0.630 2 x AS-i bus (also fits 0.079 - 0.157 in)	5 x 2 - 6 8 x 4 - 8 3 x 5 - 9 2 x 8 - 12 1 x 12 - 16 2 x AS-i bus (also fits 2 - 4 mm)

Part number	Number of bushings	Number of entries x cable diameter inmm	
Version 3			
52220080	30	30 x 0.079 - 0.236	30 x 2 - 6
Version 4			
52220085	11	8 x 0.315 - 0.472 2 x 0.472 - 0.630 1 x 0.630 - 0.787	8 x 8 - 12 2 x 12 - 16 1 x 16 - 20

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® CUBE MULTI

High-density multi-cable bushing system

SKINTOP® CUBE MULTI

21-cable insert

23-cable insert

frame



SKINTOP® CUBE MULTI provides optimum sealing and strain relief, and maximum packing density. The high-strength gel bushing insert allows for easy installation and simplified cable removal. Cables are simply routed through the gel membrane; the static friction between the gel and the cable jacket ensures a secure grip and provides a reliable seal. It is not necessary to remove individual inserts to install cables, eliminating several work steps and saving time. The gel technology allows large variable clamping ranges and a very high packing density.

Approvals



Complete the installation



Rectangular
hole punch
page 430

Application advantage

- Easy installation and simplified cable removal
- Cable diameters ranging from 3 - 16 mm are covered with just two SKINTOP® CUBE MULTI inserts, greatly reducing inventory
- Optimum strain relief due to high-strength gel insert
- Materials are oil, grease, UV, and ozone resistant; the perfect solution for industrial applications where harnessed cables need to be installed
- The SKINTOP® CUBE frame accommodates up to 23 cables and fits within standard 24-pole industrial connector entry holes

Technical data



Material:

- frame: glass fiber reinforced polyamide
- frame seal: CR
- insert: polycarbonate and gel



Color:

black



Temperature range:

-30°C to +100°C



Protection:

IP66

individual frame & inserts

Part number	Description	Number of entries x cable diameter in mm		Number of bushings
52220001	frame only (36 x 112 mm)	—	—	—
52220050	21-cable insert	9 x 0.118 - 0.236 9 x 0.236 - 0.354 2 x 0.354 - 0.512 1 x 0.512 - 0.630	9 x 3 - 6 9 x 6 - 9 2 x 9 - 13 1 x 13 - 16	21
52220053	23-cable insert	23 x 0.197 - 0.315	23 x 5 - 8	23

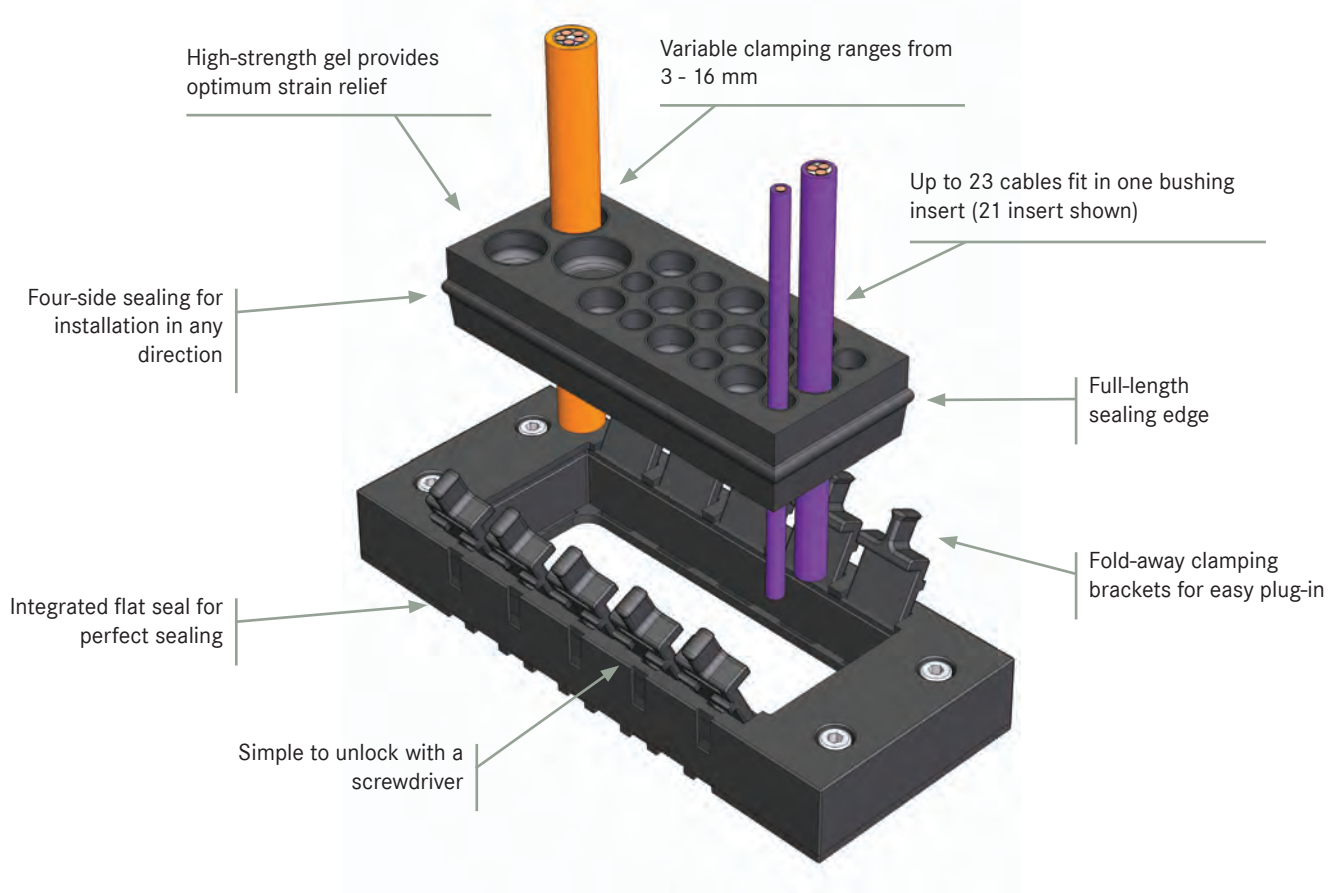
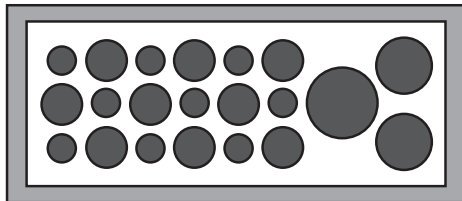
complete SKINTOP® MULTI system (frame + insert)

Part number	Description	Number of entries x cable diameter in mm		Number of bushings
52220056	21-cable insert and frame	9 x 0.118 - 0.236 9 x 0.236 - 0.354 2 x 0.354 - 0.512 1 x 0.512 - 0.630	9 x 3 - 6 9 x 6 - 9 2 x 9 - 13 1 x 13 - 16	21
52220057	23-cable insert and frame	23 x 0.197 - 0.315	23 x 5 - 8	23

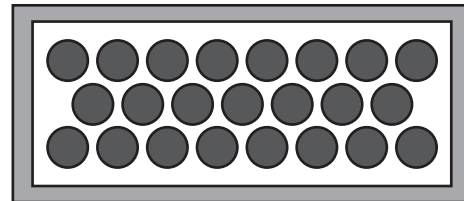
If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® CUBE MULTI

High-density multi-cable bushing system

**Insert configurations****21-cable insert**

9x 3-6 mm
 9x 6-9 mm
 2x 9-13 mm
 1x 13-16 mm

23-cable insert

23x 6-9 mm

SKINTOP® CUBE

Modular multi-cable bushing system

SKINTOP® CUBE



frame



module



SKINTOP® CUBE provides an innovative approach to traditional multi-cable bushing systems, providing many great improvements and advancements including increased simplicity, ease of use, and safety.

The patented SKINTOP® CUBE flexible clip modules provide extremely quick and easy installation with far better sealing and clamping capabilities. Additionally, service to the cables is greatly simplified, as removing the frame from the enclosure is not necessary when replacing cables.

Approvals



Complete the installation



Rectangular
hole punch
page 430

Application advantage

- Faster and easier assembling and disassembling than other multi-cable bushing systems
- Cable diameters ranging from 4 - 16 mm are covered with just four SKINTOP® CUBE modules, greatly reducing inventory
- Securely fixed SKINTOP® CUBE modules can be assembled with the cable before installation in the frame
- Materials are oil, grease, UV, and ozone resistant; the perfect solution for industrial applications where harnessed cables need to be installed
- The SKINTOP® CUBE frame accommodates up to 10 cables and fits within standard 16- and 24-pole industrial connector entry holes

Technical data



Material:

- frame: glass fiber reinforced polyamide
- frame seal: CR
- clip module: special polypropylene
- clip module seal: LSE 2



Color:

black



Temperature range:

-20°C to +80°C



Protection:

IP64

Frames

Part number	Size	Dimensions mm	Max. number of inserts	Pack size
52220000	16 panel cut-out	36 x 86	8	1
52220001	24 panel cut-out	36 x 112	10	1

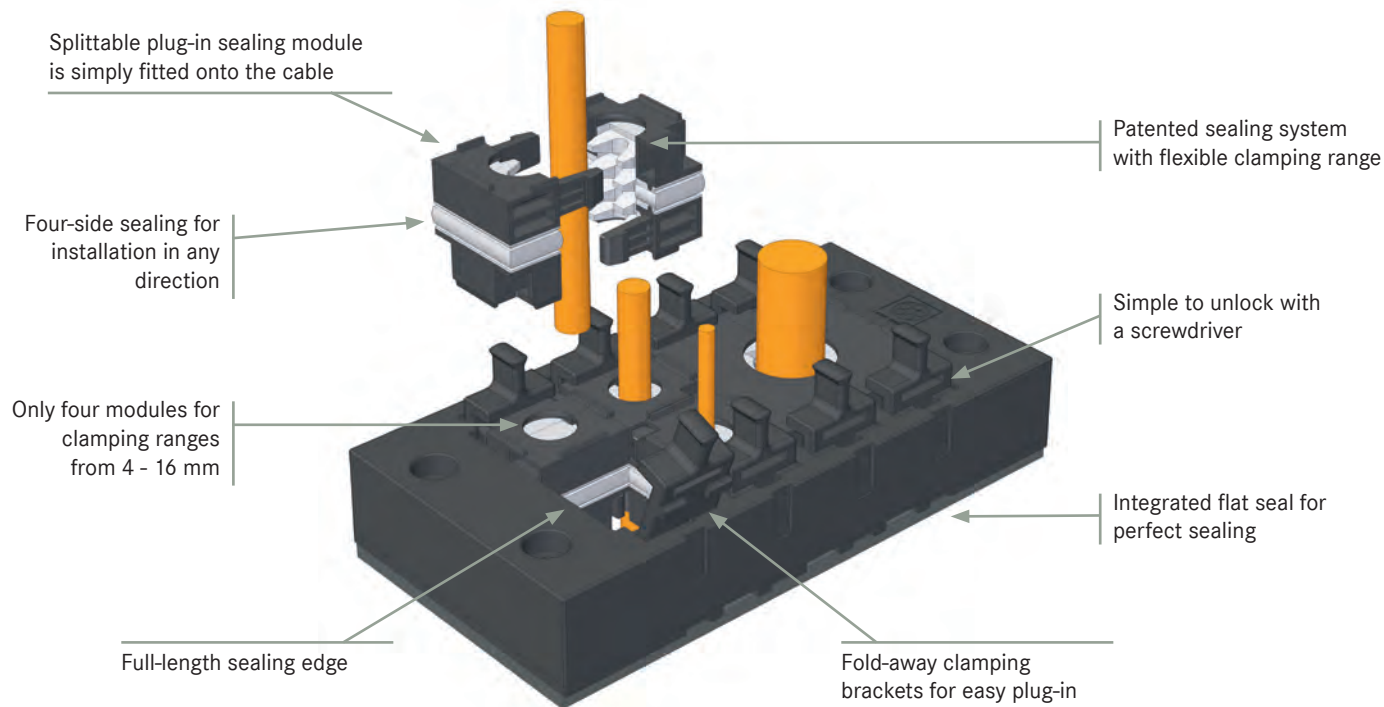
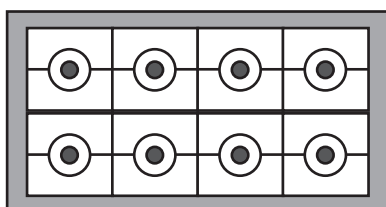
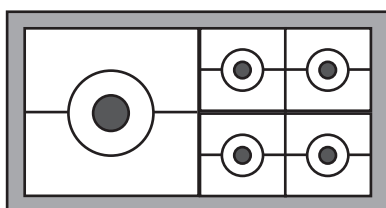
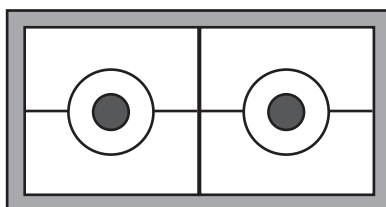
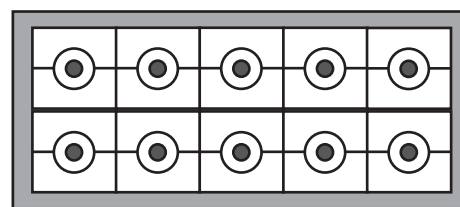
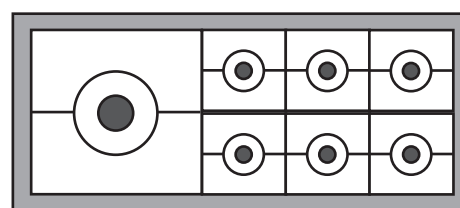
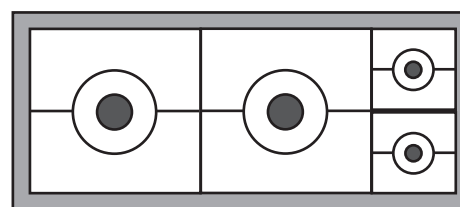
Modules

Part number	Description	Clamping range		Pack size
		in	mm	
20 x 20 mm modules				
52220002	small module	0.157 - 0.236	4 - 6	5
52220003	large module	0.236 - 0.354	6 - 9	5
52220004	blank module	0.039 - 0.118	1 - 3	5
52220040	AS-i module	AS-i bus cable		5
40 x 40 mm modules				
52220005	small module	0.354 - 0.472	9 - 12	5
52220006	large module	0.472 - 0.630	12 - 16	5
52220007	blank module	—	—	5

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

SKINTOP® CUBE

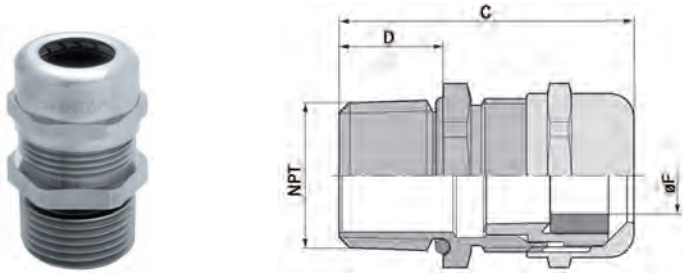
Modular multi-cable bushing system

**Possible module combinations****16 frame module**8x (20x20)
modules4x (20x20)
1x (40x40)
modules2x (40x40)
modules**24 frame module**10x (20x20)
modules6x (20x20)
1x (40x40)
modules2x (20x20)
2x (40x40)
modules

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® MS-NPT/MSR-NPT

Nickel-plated brass strain relief with NPT thread



SKINTOP® MS-NPT/MSR-NPT is a superior quality, liquid-tight, metallic cable gland intended for applications where ruggedness and durability are required. These cable glands are suitable for a wide range of applications, from manufacturing machinery to measurement and control equipment, including automation and robotics. SKINTOP® MSR-NPT includes reducer bushing.

Approvals**Complete the installation**

SKINTOP®
DIX bushing
page 545



Plugs
page 522



SKINDICHT®
SM locknuts
page 542

Application advantage

- Suitable for use in areas with high demands on mechanical and chemical stability
- The heavy duty SKINTOP® design provides great pull-out strength and very reliable strain relief
- Extended temperature range due to the nickel-plated brass body
- Generous high-quality neoprene bushing and NBR O-ring provide a liquid-tight and dust-proof hermetic seal

Technical data**Material:**

- body: nickel-plated brass
- insert: polyamide
- bushing: CR
- O-ring: NBR

**Temperature range:**

- static: -40°C to +100°C
- dynamic: -25°C to +100°C

**IP Protection:**

IP68, 10 bar
NEMA 1, 4X, 6, 12
(does not apply to NPT 2")

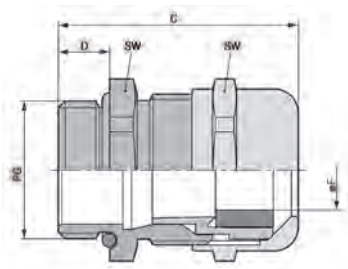
**Locknuts:**

add SKINDICHT® SM, page 542

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
		in	mm				
Standard							
53112004	NPT ¼"	0.137 - 0.276	3.5 - 7.0	0.630	1.418	0.591	100
53112014	NPT ⅜"	0.177-0.354	4.5 - 9.0	0.788	1.564	0.591	100
53112024	NPT ½"	0.276-0.492	7.0 - 12.5	0.945	1.674	0.591	50
53112034	NPT ¾"	0.354-0.650	9.0 - 16.5	1.142	1.753	0.591	25
53112044	NPT 1"	0.433-0.827	11 - 21	1.418	1.930	0.591	25
53112054	NPT 1¼"	0.748-1.103	19 - 28	1.773	2.265	0.669	10
53112064	NPT 1½"	1.063 - 1.379	27 - 35	2.127	2.423	0.669	5
53112074	NPT 2"	1.339 - 1.773	34 - 45	2.639	2.501	0.669	5
Reducer bushing							
53112006	NPT ¼"	0.039 - 0.197	1 - 5	0.630	1.418	0.591	100
53112016	NPT ⅜"	0.078 - 0.276	2 - 7	0.788	1.564	0.591	100
53112026	NPT ½"	0.197 - 0.394	5 - 10	0.945	1.674	0.591	50
53112036	NPT ¾"	0.236 - 0.512	6 - 13	1.142	1.753	0.591	25
53112046	NPT 1"	0.276 - 0.591	7 - 15	1.418	1.930	0.591	25
53112056	NPT 1¼"	0.591 - 0.906	15 - 23	1.773	2.265	0.669	10
53112066	NPT 1½"	0.866 - 1.142	22 - 29	2.127	2.423	0.669	5
53112076	NPT 2"	1.103 - 1.536	28 - 39	2.639	2.501	0.669	5

SKINTOP® MS/MSR

Nickel-plated brass strain relief with PG thread



SKINTOP® MS/MSR is a superior quality, liquid-tight, metallic cable gland intended for applications where ruggedness and durability are required. These cable glands are suitable for a wide range of applications, from manufacturing machinery to measurement and control equipment, including automation and robotics. SKINTOP® MSR includes reducer bushing.

■ Approvals



Complete the installation



SKINTOP®
DIX bushing
page 545



Plugs
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SKINDICHT®
SM locknuts
page 542

■ Application advantage

- Suitable for use in areas with high demands on mechanical and chemical stability
- The heavy duty SKINTOP® design provides great pull-out strength and very reliable strain relief
- Extended temperature range due to the nickel-plated brass body
- Generous high-quality neoprene bushing and NBR O-ring provide a liquid-tight and dust-proof hermetic seal

■ Technical data

**Material:**

- body: nickel-plated brass
- insert: polyamide
- bushing: CR
- O-ring: NBR

**Temperature range:**

- static: -40°C to +100°C
- dynamic: -25°C to +100°C

**IP Protection:**

IP68, 10 bar
when used with O-ring
(exceeds NEMA 6/6P pressure rating)

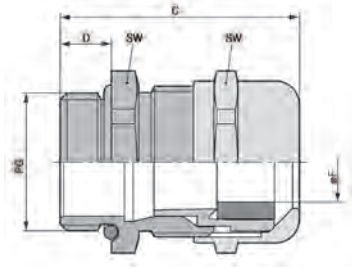
**Locknuts:**

add SKINDICHT® SM, page 542

Part number	Thread	Clamping range (oF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
		in	mm				
Standard							
52015700	PG 7	0.078 - 0.256	2 - 6.5	0.551	0.985	0.197	100
52015710	PG 9	0.157 - 0.315	4 - 8	0.669	1.142	0.236	100
52015720	PG 11	0.157 - 0.394	4 - 10	0.788	1.260	0.236	50
52015730	PG 13	0.197 - 0.472	5 - 12	0.866	1.339	0.256	50
52015740	PG 16	0.315 - 0.551	8 - 14	0.945	1.379	0.256	50
52015750	PG 21	0.433 - 0.709	11 - 18	1.182	1.576	0.276	25
52015760	PG 29	0.630 - 0.985	16 - 25	1.576	1.891	0.315	25
52015765	PG 36	0.748 - 1.260	19 - 32	1.970	2.442	0.591	10
52015766	PG 42	1.103 - 1.497	28 - 38	2.245	2.442	0.591	5
52015767	PG 48	1.339 - 1.733	34 - 44	2.521	2.442	0.591	5
Reducer bushing							
52015770	PG 7	0.078 - 0.197	2 - 5	0.551	0.985	0.197	100
52015780	PG 9	0.078 - 0.236	2 - 6	0.669	1.142	0.236	100
52015790	PG 11	0.118 - 0.276	3 - 7	0.787	1.260	0.236	50
52015800	PG 13	0.157 - 0.354	4 - 9	0.866	1.339	0.256	50
52015810	PG 16	0.236 - 0.512	6 - 13	0.945	1.379	0.256	50
52015820	PG 21	0.315 - 0.630	8 - 16	1.182	1.576	0.276	25
52015830	PG 29	0.413 - 0.788	10.5 - 20	1.576	1.891	0.315	25
52015831	PG 36	0.748 - 1.024	19 - 26	1.970	2.442	0.591	10
52015832	PG 42	0.945 - 1.221	24 - 31	2.245	2.442	0.591	5
52015833	PG 48	1.103 - 1.379	28 - 35	2.521	2.442	0.591	5

SKINTOP® MS-XL/MSR-XL

Nickel-plated brass strain relief with extended PG thread



SKINTOP® MS-XL/MSR-XL is a superior quality, liquid-tight, metallic cable gland intended for applications where ruggedness, durability and long threads are required. These cable glands are suitable for a wide range of applications, from manufacturing machinery to measurement and control equipment, including automation and robotics. SKINTOP® MSR-XL includes reducer bushing.

Approvals



Complete the installation



SKINTOP®
DIX bushing
page 545



Plugs
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SKINDICHT®
SM locknuts
page 542

Application advantage

- Ideal for heavy wall applications or for use with locknuts where tapped holes cannot be provided
- Suitable for use in areas with high demands on mechanical and chemical stability
- The heavy duty SKINTOP® design provides great pull-out strength and very reliable strain relief
- Extended temperature range due to the nickel-plated brass body
- Generous high-quality neoprene bushing and NBR O-ring provide a liquid-tight and dust-proof hermetic seal

Technical data



Material:

- body: nickel-plated brass
- insert: polyamide
- bushing: CR
- O-ring: NBR



Temperature range:

- static: -40°C to +100°C
- dynamic: -25°C to +100°C



IP Protection:

- seal: 70 PSI
IP68, 5 bar
when used with an O-ring
NEMA 1, 4X, 6, 12



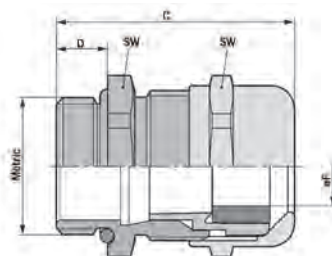
Locknuts:

add SKINDICHT® SM, page 542

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
		in	mm				
Standard							
52115700	PG 7	0.078 - 0.256	2 - 6.5	0.551	1.260	0.472	100
52115710	PG 9	0.157 - 0.315	4 - 8	0.669	1.379	0.472	100
52115720	PG 11	0.157 - 0.394	4 - 10	0.788	1.497	0.472	50
52115730	PG 13	0.197 - 0.472	5 - 12	0.866	1.556	0.472	50
52115740	PG 16	0.315 - 0.551	8 - 14	0.945	1.595	0.472	50
52115750	PG 21	0.433 - 0.709	11 - 18	1.182	1.773	0.472	25
52115760	PG 29	0.630 - 0.985	16 - 25	1.576	2.048	0.591	25
Reducer bushing							
52115770	PG 7	0.078 - 0.197	2 - 5	0.551	1.260	0.472	100
52115780	PG 9	0.078 - 0.236	2 - 6	0.669	1.379	0.472	100
52115790	PG 11	0.118 - 0.276	3 - 7	0.788	1.497	0.472	50
52115800	PG 13	0.157 - 0.354	4 - 9	0.866	1.556	0.472	50
52115810	PG 16	0.236 - 0.512	6 - 13	0.945	1.595	0.472	50
52115820	PG 21	0.315 - 0.630	8 - 16	1.182	1.773	0.472	25
52115830	PG 29	0.413 - 0.788	10.5 - 20	1.576	2.048	0.591	25

SKINTOP® MS-M/MSR-M

Nickel-plated brass strain relief with metric thread



Complete the installation

SKINTOP®
DIX bushing
page 545Plugs
page 522SKINDICHT®
SM locknuts
page 542

SKINTOP® MS/MSR is a superior quality, liquid-tight, metallic cable gland intended for applications where ruggedness and durability are required. These cable glands are suitable for a wide range of applications, from manufacturing machinery to measurement and control equipment, including automation and robotics. SKINTOP® MSR includes reducer bushing.

Approvals



* DNV pending for size M75; UL, CSA, DNV & VDE pending for sizes M90 & M110

Application advantage

- Suitable for use in areas with high demands on special mechanical and chemical stability
- The heavy duty SKINTOP® design provides great pull-out strength and very reliable strain relief
- Extended temperature range due to the nickel-plated brass body
- Generous high-quality neoprene bushing and NBR O-ring provide a liquid-tight and dust-proof hermetic seal

Technical data

Material:

- body: nickel-plated brass
- insert: polyamide
- bushing: CR
- O-ring: NBR

Locknuts:

add SKINDICHT® SM-M, page 542

Temperature range:

- static: -40°C to +100°C
- dynamic: -25°C to +100°C

IP Protection:

- 70 PSI
- M12 - M50: IP68, 10 bar
- M12 - M63: IP68, 5 bar
- IP69
- NEMA 1, 4X, 6, 12
- M12 - M75: IP68, 1 bar

Part number	Thread	UL status	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
			in	mm				
Standard								
53112000	M12 x 1.5	Recognized	0.138 - 0.276	3.5 - 7	0.630	1.044	0.256	100
53112010	M16 x 1.5	Recognized	0.177 - 0.394	4.5 - 10	0.788	1.260	0.276	100
53112020	M20 x 1.5	Listed	0.276 - 0.512	7 - 13	0.945	1.398	0.315	50
53112030	M25 x 1.5	Listed	0.354 - 0.669	9 - 17	1.142	1.477	0.315	25
53112040	M32 x 1.5	Listed	0.433 - 0.827	11 - 21	1.418	1.662	0.354	25
53112050	M40 x 1.5	Listed	0.748 - 1.103	19 - 28	1.773	1.950	0.354	10
53112060	M50 x 1.5	Listed	1.063 - 1.379	27 - 35	2.127	2.048	0.394	5
53112070	M63 x 1.5	Listed	1.339 - 1.773	34 - 45	2.639	2.415	0.591	5
53112080	M63 x 1.5, plus	Listed	1.733 - 2.167	44 - 55	2.955	2.580	0.591	5
53112510	M75 x 1.5	Listed	2.285 - 2.679	58 - 68	3.743	4.137	0.591	1
53112512	M90 x 2.0	Listed	2.600 - 3.073	66 - 78	4.531	5.358	0.788	1
53112514	M110 x 2.0	Listed	3.388 - 3.861	86 - 98	5.319	6.067	0.985	1
Reducer bushing								
53112100	M12 x 1.5	Recognized	0.078 - 0.197	2 - 5	0.630	1.044	0.256	100
53112110	M16 x 1.5	Recognized	0.078 - 0.276	2 - 7	0.788	1.260	0.276	100
53112120	M20 x 1.5	Listed	0.197 - 0.394	5 - 10	0.945	1.398	0.315	50
53112130	M25 x 1.5	Listed	0.236 - 0.512	6 - 13	1.142	1.477	0.315	25
53112140	M32 x 1.5	Listed	0.276 - 0.591	7 - 15	1.418	1.662	0.354	25
53112150	M40 x 1.5	Listed	0.591 - 0.906	15 - 23	1.773	1.950	0.354	10
53112160	M50 x 1.5	Listed	0.866 - 1.142	22 - 29	2.127	2.048	0.394	5
53112170	M63 x 1.5	Listed	1.103 - 1.536	28 - 39	2.639	2.415	0.591	5
53112511	M75 x 1.5	Listed	2.088 - 2.482	53 - 63	3.743	4.137	0.591	1
53112515	M110 x 2.0	Listed	2.994 - 3.467	76 - 88	5.319	6.067	0.985	1

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® MS-M-XL/MSR-M-XL

Nickel-plated brass strain relief with extended metric thread



SKINTOP® MS-M-XL/MSR-M-XL is a superior quality, liquid-tight, metallic cable gland intended for applications where ruggedness, durability, and long threads are required. SKINTOP® MSR-M-XL includes reducer bushing.

Approvals**Complete the installation**

SKINTOP®
DIX bushing
page 545



Plugs
page 548



SKINDICHT®
SM locknuts
page 542

Application advantage

- Ideal for heavy wall applications or for use with locknuts where tapped holes cannot be provided
- Suitable for use in areas with high demands on special mechanical and chemical stability
- The heavy duty SKINTOP® design provides great pull-out strength and very reliable strain relief
- Extended temperature range due to the nickel-plated brass body
- Generous high-quality neoprene bushing and NBR O-ring provide a liquid-tight and dust-proof hermetic seal

Technical data**Material:**

- body: nickel-plated brass
- insert: polyamide
- bushing: CR
- O-ring: NBR

**Temperature range:**

- static: -40°C to +100°C
- dynamic: -25°C to +100°C

**IP Protection:**

- seal: 70 PSI
IP68, 10 bar
IP69
NEMA 1, 4X, 6, 12

**Locknuts:**

add SKINDICHT® SM-M, page 542

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
		in	mm				
Standard							
53112005	M12 x 1.5	0.138 - 0.276	3.5 - 7	0.630	1.292	0.472	100
53112015	M16 x 1.5	0.177 - 0.394	4.5 - 10	0.788	1.457	0.472	50
53112025	M20 x 1.5	0.276 - 0.512	7 - 13	0.945	1.556	0.472	50
53112035	M25 x 1.5	0.354 - 0.669	9 - 17	1.142	1.635	0.472	25
53112045	M32 x 1.5	0.433 - 0.827	11 - 21	1.418	1.899	0.591	25
53112055	M40 x 1.5	0.748 - 1.103	19 - 28	1.773	2.107	0.591	10
53112065	M50 x 1.5	1.063 - 1.379	27 - 35	2.127	2.245	0.591	5
Reducer bushing							
53112105	M12 x 1.5	0.078 - 0.197	2 - 5	0.630	1.292	0.472	100
53112115	M16 x 1.5	0.078 - 0.276	2 - 7	0.788	1.457	0.472	50
53112125	M20 x 1.5	0.197 - 0.394	5 - 10	0.945	1.556	0.472	50
53112135	M25 x 1.5	0.236 - 0.512	6 - 13	1.142	1.635	0.472	25
53112145	M32 x 1.5	0.276 - 0.591	7 - 15	1.418	1.899	0.591	25
53112155	M40 x 1.5	0.591 - 0.906	15 - 23	1.773	2.107	0.591	10
53112165	M50 x 1.5	0.866 - 1.142	22 - 29	2.127	2.245	0.591	5

SKINTOP® MS-M ATEX/MSR-M ATEX

Nickel-plated brass strain relief according to ATEX for hazardous areas with metric thread



Complete the installation



SKINTOP®
DIX bushing
page 545



Plugs
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SKINDICHT®
SM locknuts
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SKINTOP® MS-M ATEX and MSR-M ATEX were developed for use in areas with risk of explosion and for cables used with fail-safe circuits in housings and devices which require class "e" security. They are recommended for use in the chemical and petrochemical industry, mobile offshore, and marine applications. SKINTOP® MSR-M ATEX includes reducer bushing.

Approvals



Application advantage

- Equipment Group II, Category 2G + 1D
- The heavy duty SKINTOP® design provides great pull-out strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration-proof protection
- Multi-trapezoidal thread requires just one twist to tighten
- Provide clamping range of 44 - 55 mm while maintaining protection, stability, and safety

Technical data



Material:

- body: nickel-plated brass
- insert: polyamide
- bushing: CR
- O-ring: NBR



Temperature range:

-30°C to +90°C



IP Protection:

IP68, 10 bar
when used with an O-ring
NEMA 1, 4X, 6, 12



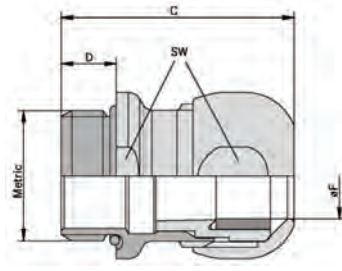
Locknuts:

add SKINDICHT® SM-M, page 542

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
		in	mm				
Standard							
53112700	M12 x 1.5	0.118 - 0.276	3 - 7	0.630	1.044	0.256	100
53112710	M16 x 1.5	0.177 - 0.394	4.5 - 10	0.788	1.300	0.276	100
53112720	M20 x 1.5	0.276 - 0.512	7 - 13	0.945	1.457	0.315	50
53112730	M25 x 1.5	0.354 - 0.669	9 - 17	1.142	1.516	0.315	25
53112740	M32 x 1.5	0.433 - 0.827	11 - 21	1.418	1.792	0.354	25
53112750	M40 x 1.5	0.748 - 1.103	19 - 28	1.773	1.891	0.354	10
53112760	M50 x 1.5	1.024 - 1.379	26 - 35	2.127	2.186	0.394	5
53112770	M63 x 1.5	1.339 - 1.773	34 - 45	2.639	2.639	0.591	5
53112779	M63 x 1.5	1.733 - 2.167	44 - 55	2.955	2.580	0.591	1
Reducer bushing							
53112705	M12 x 1.5	0.078 - 0.197	2 - 5	0.630	1.044	0.256	100
53112715	M16 x 1.5	0.157 - 0.276	4 - 7	0.788	1.300	0.276	100
53112725	M20 x 1.5	0.197 - 0.394	5 - 10	0.945	1.457	0.315	50
53112735	M25 x 1.5	0.236 - 0.512	6 - 13	1.142	1.516	0.315	25
53112745	M32 x 1.5	0.276 - 0.591	7 - 15	1.418	1.792	0.354	25
53112755	M40 x 1.5	0.630 - 0.906	16 - 23	1.773	1.891	0.354	10
53112765	M50 x 1.5	0.748 - 1.142	19 - 29	2.127	2.186	0.394	5
53112775	M63 x 1.5	1.260 - 1.536	32 - 39	2.639	2.639	0.591	5

SKINTOP® INOX/INOX-R

Hygienic stainless steel strain relief with NPT & metric thread



SKINTOP® INOX is a stainless steel cable gland with special design features that prevent micro-organisms and bacteria from sticking to the surface. The gland has an IP68/69 rating and withstands high pressure and high-temperature wash downs. Typical applications can be found in the food & beverage and pharmaceutical industry. SKINTOP® INOX-R includes reducer bushing.

Approvals



Application advantage

- Highly corrosion-resistant
- Smooth surface
- No edges
- IP68/69 protection
- Wide variable clamping ranges
- NSF 169 for use in splash zone or non-food zone

Technical data



Material:

- body: stainless steel: V4.A (1.4404/316L)
- insert: polyamide
- sealing ring: silicone
- O-ring: silicone

IP Protection:

- M12 - M20: IP69
- M25 - M50 & NPT: IP68, 10 bar
- M25 - M50 & NPT: IP68, 5 bar

Approvals:

according to DIN EN ISO 14 159
according to DIN EN 1672-2
NSF 169



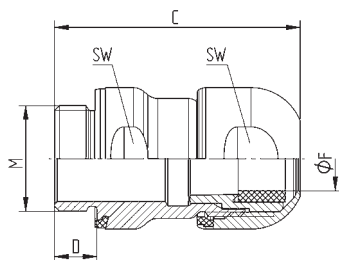
Temperature range:

-40°C to +100°C

Part number	Thread	UL status	Clamping range (rF)		Wrenching flats (SW)	Overall length (C)	Thread length (D)	Pack size
			in	mm	in	in	in	
Standard NPT								
53806780	NPT 1/2"	Recognized	0.276 - 0.512	7 - 13	0.945	1.673	0.591	5
53806781	NPT 3/4"	Recognized	0.354 - 0.669	9 - 17	1.142	1.819	0.591	5
53806782	NPT 1"	Recognized	0.433 - 0.827	11 - 21	1.417	1.992	0.591	5
53806783	NPT 1 1/4"	Listed	0.748 - 1.102	19 - 28	1.772	2.331	0.669	5
53806784	NPT 1 1/2"	Listed	1.063 - 1.378	27 - 35	2.126	2.488	0.669	5
Standard metric								
53806739	M12 x 1.5	Recognized	0.157 - 0.276	4 - 7	0.630	1.154	0.256	5
53806740	M16 x 1.5	Recognized	0.236 - 0.394	6 - 10	0.788	1.276	0.276	5
53806741	M20 x 1.5	Recognized	0.276 - 0.512	7 - 13	0.945	1.398	0.315	5
53806742	M25 x 1.5	Recognized	0.354 - 0.669	9 - 17	1.142	1.544	0.315	5
53806743	M32 x 1.5	Recognized	0.433 - 0.827	11 - 21	1.418	1.757	0.354	5
53806744	M40 x 1.5	Listed	0.748 - 1.102	19 - 28	1.772	2.016	0.354	5
53806745	M50 x 1.5	Listed	1.063 - 1.378	27 - 35	2.126	2.213	0.394	5
Reducer bushing								
53806749	M12 x 1.5	Recognized	0.118 - 0.197	3 - 5	0.630	1.154	0.256	5
53806750	M16 x 1.5	Recognized	0.197 - 0.276	5 - 7	0.788	1.276	0.276	5
53806751	M20 x 1.5	Recognized	0.236 - 0.394	6 - 10	0.945	1.398	0.315	5
53806752	M25 x 1.5	Recognized	0.276 - 0.512	7 - 13	1.142	1.544	0.315	5
53806753	M32 x 1.5	Recognized	0.315 - 0.591	8 - 15	1.418	1.757	0.354	5
53806754	M40 x 1.5	Recognized	0.591 - 0.906	15 - 23	1.772	2.016	0.354	5
53806755	M50 x 1.5	Listed	0.866 - 1.142	22 - 29	2.126	2.213	0.394	5

SKINTOP® HYGIENIC/HYGIENIC-R

Hygienic stainless steel strain relief with FDA-approved sealing material with metric thread



SKINTOP® HYGIENIC is a stainless steel cable gland that uses FDA-approved material and is designed with special features which prevent micro-organisms and bacteria from sticking to the surface. It has an IP68/69 rating and withstands high pressure and high temperature washdowns. SKINTOP® HYGIENIC-R includes a reducer bushing.

Approvals



Application advantage

- Special sealing element for food & beverage and pharmaceutical industries
- FDA-approved sealing material
- IP68/69 protection
- NSF 169 for use in food zone non-contact

Technical data



Material:

- body: stainless steel: V4A (1.4404/316L)
- insert: polyamide
- sealing element: special elastomer



IP Protection:

IP68, 10 bar
IP69



Approvals:

according to DIN EN ISO 14 159
according to DIN EN 1672-2
according to EHEDG
NSF 169



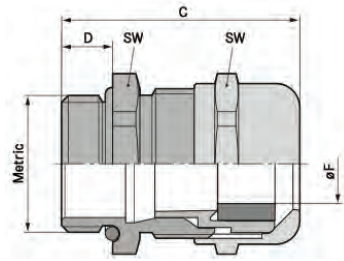
Temperature range:

-20°C to +100°C

Part number	Thread	UL status	Clamping range (øF)		Wrenching flats (SW)	Overall length (C)	Thread length (D)	Pack size
			in	mm	in	in	in	
Standard								
53105100	M12 x 1.5	Recognized	0.158 - 0.236	4 - 6	0.630	1.572	0.256	5
53105110	M16 x 1.5	Recognized	0.256 - 0.355	6.5 - 9.0	0.788	1.710	0.276	5
53105120	M20 x 1.5	Recognized	0.355 - 0.473	9 - 12	0.946	1.828	0.315	5
53105130	M25 x 1.5	Recognized	0.453 - 0.611	11.5 - 15.5	1.143	1.927	0.315	5
Reducer bushing								
53105200	M12 x 1.5	Recognized	0.118 - 0.177	3.0 - 4.5	0.630	1.572	0.256	5
53105210	M16 x 1.5	Recognized	0.177 - 0.276	4.5 - 7.0	0.788	1.710	0.276	5
53105220	M20 x 1.5	Recognized	0.276 - 0.394	7 - 10	0.946	1.828	0.315	5
53105230	M25 x 1.5	Recognized	0.355 - 0.493	9.0 - 12.5	1.143	1.927	0.315	5

SKINTOP® COLD/COLD-R

Nickel-plated brass strain relief for extreme sub-zero temperatures with metric thread



Complete the installation

SKINDICHT®
SM locknuts
page 542

SKINTOP® COLD strain relief cable glands are designed for areas where mechanical stability and cold resistance are critical. Typical applications include cold storage facilities, offshore areas, and plant engineering. SKINTOP® COLD-R includes reducer bushing.

Approvals



Application advantage

- Excellent cold resistance
- Cold impact resistant
- Heavy duty design offers mechanical stability, pull-out protection and reliable strain relief

Technical data



Material:

- body: nickel-plated brass
- insert: special polyamide
- sealing ring: silicone
- O-ring: silicone



Temperature range:

-70°C to +100°C



IP Protection:

- M12 - M20: IP68, 10 bar
- M25 - M63: IP68, 5 bar



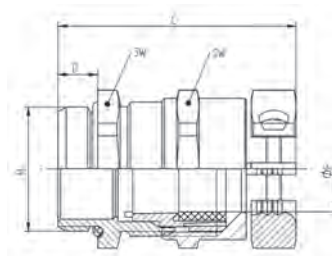
Locknuts:

add SKINDICHT® SM-M, page 542

Part number	Thread	UL status	Clamping range (øF)		Wrenching flats (SW)	Overall length (C)	Thread length (D)	Pack size
			in	mm	in	in	in	
Standard								
53113500	M12 x 1.5	Recognized	0.138 - 0.276	3.5 - 7	0.630	1.044	0.256	100
53113510	M16 x 1.5	Recognized	0.177 - 0.394	4.5 - 10	0.788	1.261	0.276	100
53113520	M20 x 1.5	Recognized	0.276 - 0.512	7 - 13	0.946	1.399	0.315	50
53113530	M25 x 1.5	Recognized	0.355 - 0.670	9 - 17	1.143	1.478	0.315	25
53113540	M32 x 1.5	Listed	0.433 - 0.827	11 - 21	1.418	1.663	0.355	25
53113550	M40 x 1.5	Listed	0.749 - 1.103	19 - 28	1.773	1.950	0.355	10
53113560	M50 x 1.5	—	1.064 - 1.379	27 - 35	2.128	2.049	0.394	5
53113570	M63 x 1.5	—	1.340 - 1.773	34 - 45	2.640	2.415	0.591	5
Reducer bushing								
53113600	M12 x 1.5	Recognized	0.039 - 0.197	1 - 5	0.630	1.044	0.256	100
53113610	M16 x 1.5	Recognized	0.079 - 0.276	2 - 7	0.788	1.261	0.276	100
53113620	M20 x 1.5	Recognized	0.197 - 0.394	5 - 10	0.946	1.399	0.315	50
53113630	M25 x 1.5	Recognized	0.236 - 0.512	6 - 13	1.143	1.478	0.315	25
53113640	M32 x 1.5	Recognized	0.276 - 0.591	7 - 15	1.418	1.663	0.355	25
53113650	M40 x 1.5	Recognized	0.591 - 0.906	15 - 23	1.773	1.950	0.355	10
53113660	M50 x 1.5	Recognized	0.867 - 1.143	22 - 29	2.128	2.049	0.394	5
53113670	M63 x 1.5	Recognized	1.103 - 1.537	28 - 39	2.640	2.415	0.591	5

SKINTOP® GRIP-M

Nickel-plated brass strain relief for high strain applications with metric thread



SKINTOP® GRIP-M is a double-strap strain relief cable gland with a high level of strain relief for harsh environmental conditions. Is is appropriate for portable equipment, cranes, conveying machinery, and systems on building sites.

Application advantage

- Protects cable in environments with high pull strain
- Reliable bending and anti-kink protection
- For high mechanical stress

Approvals**Technical data****Material:**

- body: nickel-plated brass
- sealing: CR/NBR
- O-ring: NBR

**Temperature range:**

-40°C to +100°C

**IP Protection:**IP68, 10 bar
IP69

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Pack size
		in	mm				
53113180	M16 x 1.5	0.177 - 0.394	4.5 - 10	0.787	1.614	0.276	25
53113200	M20 x 1.5	0.276 - 0.512	7 - 13	0.945	1.811	0.335	25
53113210	M25 x 1.5	0.355 - 0.670	9 - 17	1.142	1.909	0.315	25
53113220	M32 x 1.5	0.433 - 0.827	11 - 21	1.417	2.224	0.354	25

SKINTOP® MS-SC

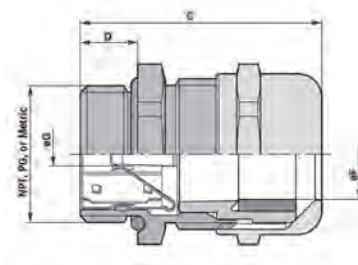
Nickel-plated strain relief for EMC applications with NPT, PG & metric thread



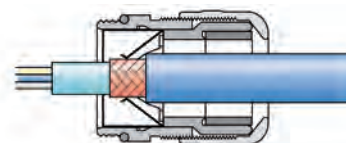
SKINTOP® MS-SC is uniquely designed to address EMI concerns with its simplified grounding feature. In a few easy steps the cable is grounded, strain relieved, and sealed from moisture and dust in accordance with IP68. The cable glands' contact springs establish a continuous electrical path from the shield of the cable to the equipment ground, creating a secure shield connection.

Application advantage

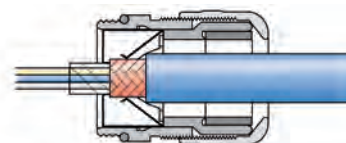
- Optimal EMC protection
- Suitable for braid-shielded cable
- Minimal assembly steps
- The contact springs' unique design can accept cable diameters with wide dimensional tolerances
- Available in both standard and long length threads for heavy wall applications

Approvals: NPT**Approvals: PG****Approvals: metric****Assembly instructions**

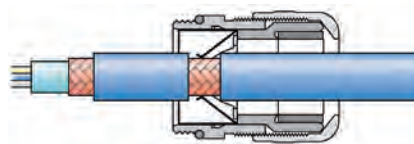
for standard contacting



for thin wires without an inner sheath



when routing cable screen to another connection

**Complete the installation**

SKINDICHT®
SM-PE locknuts
page 543

Technical data**Material:**

- body: nickel-plated brass
- insert: polyamide
- bushing: CR
- O-ring: NBR

**Temperature range:**

- static: -40°C to +100°C
- dynamic: -25°C to +100°C

**Locknuts:**

- PG & metric: add SKINDICHT® SM-PE, page 543

**IP Protection:**

- metric: IP69
- NPT & metric: NEMA 1, 4X, 6, 12

SKINTOP® MS-SC NPT

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Min ø above braiding in	Pack size
		in	mm					
Standard								
53112910	NPT ¾"	0.177 - 0.394	4.5 - 10	0.788	1.564	0.591	0.158	100
53112920	NPT ½"	0.276 - 0.512	7 - 13	0.945	1.674	0.591	0.197	50
53112930	NPT ¾"	0.354 - 0.669	9 - 17	1.142	1.753	0.591	0.296	25
53112940	NPT 1"	0.433 - 0.827	11 - 21	1.418	1.930	0.591	0.355	25
53112950	NPT 1¼"	0.748 - 1.103	19 - 28	1.773	2.264	0.669	0.591	10
53112960	NPT 1½"	1.063 - 1.379	27 - 35	2.127	2.423	0.669	0.827	5

SKINTOP® MS-SC & MS-SCL

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Min ø above braiding in	Pack size
		in	mm					
Standard								
53112210	PG 9	0.118 - 0.315	3 - 8	0.669	1.142	0.236	0.158	50
53112220	PG 11	0.157 - 0.394	4 - 10	0.787	1.260	0.236	0.158	50
53112230	PG 13	0.197 - 0.472	5 - 12	0.866	1.339	0.256	0.158	25
53112240	PG 16	0.315 - 0.551	8 - 14	0.945	1.378	0.256	0.236	25
53112250	PG 21	0.433 - 0.709	11 - 18	1.181	1.575	0.276	0.315	25
53112260	PG 29	0.630 - 0.985	16 - 25	1.575	1.890	0.315	0.512	10
53112270	PG 36	0.748 - 1.260	19 - 32	1.969	2.441	0.591	0.630	5
Long thread								
53112310	PG 9	0.118 - 0.315	3 - 8	0.669	1.378	0.472	0.158	50
53112320	PG 11	0.157 - 0.394	4 - 10	0.787	1.496	0.472	0.158	50
53112330	PG 13	0.197 - 0.472	5 - 12	0.866	1.555	0.472	0.158	25
53112340	PG 16	0.315 - 0.551	8 - 14	0.945	1.594	0.472	0.236	25
53112350	PG 21	0.433 - 0.709	11 - 18	1.181	1.772	0.472	0.315	25
53112360	PG 29	0.630 - 0.985	16 - 25	1.575	2.047	0.591	0.512	10

SKINTOP® MS-M-SC & MS-M-SCL

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Min ø above braiding in	Pack size
		in	mm					
Standard								
53112610	M12 x 1.5	0.137 - 0.276	3.5 - 7	0.630	1.043	0.256	0.079	50
53112620	M16 x 1.5	0.177 - 0.354	4.5 - 9	0.788	1.299	0.276	0.158	50
53112630	M20 x 1.5	0.276 - 0.512	7 - 13	0.945	1.457	0.315	0.197	25
53112640	M25 x 1.5	0.354 - 0.669	9 - 17	1.142	1.516	0.315	0.296	25
53112650	M32 x 1.5	0.433 - 0.827	11 - 21	1.418	1.791	0.354	0.355	25
53112660	M40 x 1.5	0.748 - 1.103	19 - 28	1.773	1.890	0.354	0.591	10
53112670	M50 x 1.5	1.063 - 1.379	27 - 35	2.127	2.185	0.394	0.827	5
Long thread								
53112615	M12 x 1.5	0.137 - 0.276	3.5 - 7	0.630	1.260	0.472	0.039	50
53112625	M16 x 1.5	0.177 - 0.354	4.5 - 9	0.788	1.496	0.472	0.158	50
53112635	M20 x 1.5	0.276 - 0.512	7 - 13	0.945	1.614	0.472	0.197	25
53112645	M25 x 1.5	0.354 - 0.669	9 - 17	1.142	1.673	0.472	0.296	25
53112655	M32 x 1.5	0.433 - 0.827	11 - 21	1.418	2.028	0.591	0.355	25
53112665	M40 x 1.5	0.748 - 1.103	19 - 28	1.773	2.126	0.591	0.591	10
53112675	M50 x 1.5	1.063 - 1.379	27 - 35	2.127	2.382	0.591	0.827	5

SKINTOP® MS-NPT BRUSH/MS-M BRUSH

Nickel-plated brass strain relief for EMC applications with NPT & metric thread



Complete the installation

SKINDICHT®
SM-PE locknuts
page 543

The SKINTOP® MS-NPT/MS-M BRUSH provides centered, fixed strain relief with a liquid-tight and dust-proof seal, all in one step. Simply insert the cable, push the braid shield under the innovative EMC brush, tighten the cap, and the connection is made. Plus sizes offer extra large clamping ranges.

Approvals: NPT



Approvals: metric



Application advantage

- Faster, easier, reliable cable shield contact
- Maximum assembly and adjustment possibilities
- 360° contact area allows for optimal low-resistance current return ground path
- M75 - M110 feature an innovative double lamellar gasket for easier assembling of cables with large diameters.

Technical data

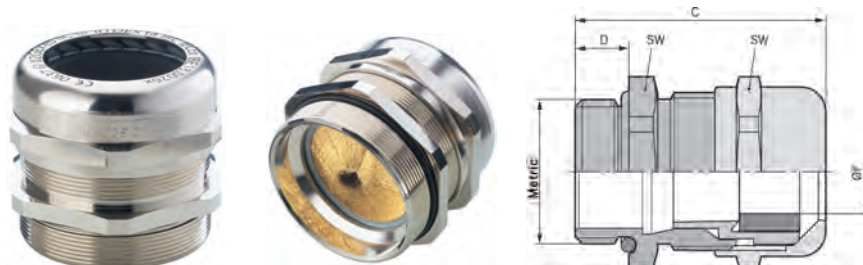
	Material:		IP Protection:	
	- body:	nickel-plated brass	- NPT:	IP68, 10 bar IP69 (does not apply to NPT 2" plus) NEMA 1, 4X, 6, 12 (does not apply to NPT 2" & 2" plus)
	- brush:	brass		
	- insert:	polyamide		
	- bushing:	special elastomer		
	- O-ring:	special elastomer	- metric:	IP68, 10 bar IP69 (does not apply to M63 plus & larger) NEMA 1, 4X, 6, 12 (does not apply to M75 & larger)
	Locknuts:	add SKINDICHT® SM-PE-M for metric glands, page 543		
	Temperature range:			
	- static:	-40°C to +100°C		
	- dynamic:	-25°C to +100°C		

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Min ø above braiding in	Pack size
		in	mm					
NPT								
53112037	NPT ¾"	0.354 - 0.669	9 - 17	1.142	1.694	0.591	0.236	10
53112047	NPT 1"	0.433 - 0.827	11 - 21	1.418	1.891	0.591	0.315	1
53112057	NPT 1¼"	0.748 - 1.103	19 - 28	1.773	2.265	0.669	0.394	1
53112067	NPT 1½"	1.063 - 1.379	27 - 35	2.127	2.323	0.669	0.551	1
53112077	NPT 2"	1.339 - 1.773	34 - 45	2.639	2.482	0.669	0.787	1
53112087	NPT 2", plus	1.733 - 2.167	44 - 55	2.955	2.836	0.669	0.984	1
Metric								
53112676	M25 x 1.5	0.354 - 0.669	9 - 17	1.142	1.418	0.315	0.236	10
53112677	M32 x 1.5	0.433 - 0.827	11 - 21	1.418	1.663	0.354	0.315	1
53112678	M40 x 1.5	0.748 - 1.103	19 - 28	1.773	2.344	0.354	0.394	1
53112679	M50 x 1.5	1.063 - 1.379	27 - 35	2.127	2.049	0.394	0.551	1
53112680	M63 x 1.5	1.339 - 1.773	34 - 45	2.639	2.415	0.591	0.788	1
53112681	M63 x 1.5, plus	1.733 - 2.167	44 - 55	2.955	2.719	0.591	0.985	1
53112501	M75 x 1.5	2.088 - 2.482	53 - 63	3.743	4.137	0.591	1.379	1
53112500	M75 x 1.5, plus	2.285 - 2.679	58 - 68	3.743	4.137	0.591	1.379	1
53112503	M90 x 2.0	2.600 - 3.073	66 - 78	4.531	5.339	0.788	1.773	1
53112505	M110 x 2.0	2.994 - 3.467	76 - 88	5.319	6.068	0.985	2.167	1
53112504	M110 x 2.0, plus	3.388 - 3.861	86 - 98	5.319	6.068	0.985	2.167	1

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® MS-M ATEX BRUSH

Nickel-plated brass strain relief according to ATEX for EMC applications in hazardous areas



Complete the installation



SKINDICHT®
SM-PE locknuts
page 543

SKINTOP® MS-M ATEX BRUSH was developed for safe use in areas with risk of explosion and for cables used with fail-safe circuits in housings and devices which require class “e” security. Simply insert the cable, push the braid shield under the innovative EMC brush, tighten the cap, and the connection is made.

Approvals



Application advantage

- Equipment Group II, Category 2G + 1D
- The heavy duty SKINTOP® design provides great pull-out strength and very reliable strain relief
- 360° contact area allows for optimal low-resistance current return ground path
- Faster, easier, reliable cable shield contact
- Anti-static, safe, and impact resistant at cold temperatures

Technical data



Material:

- body: nickel-plated brass
- brush: brass
- insert: polyamide
- bushing: special elastomer
- O-ring: special elastomer



Locknuts:

add SKINDICHT® SM-PE-M,
page 543



Temperature range:

-30°C to +90°C



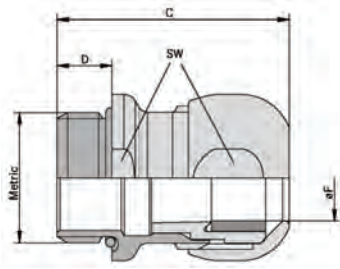
IP Protection:

IP68, 10 bar

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Thread length (D) in	Min ø above braiding in	Pack size
		in	mm				
52110023	M25 x 1.5	0.355 - 0.670	9 - 17	1.143	0.315	0.236	10
52110024	M32 x 1.5	0.433 - 0.827	11 - 21	1.418	0.355	0.315	1
52110025	M40 x 1.5	0.749 - 1.103	19 - 28	1.773	0.355	0.394	1
52110026	M50 x 1.5	1.064 - 1.379	27 - 35	2.128	0.394	0.552	1
52110027	M63 x 1.5	1.340 - 1.773	34 - 45	2.640	0.591	0.788	1
52110028	M63 x 1.5, plus	1.734 - 2.167	44 - 55	2.955	0.591	0.985	1

SKINTOP® INOX SC

Hygienic stainless steel strain relief for EMC applications



SKINTOP® INOX SC is a stainless steel cable gland for EMC applications with special design features that prevent micro-organisms and bacteria from sticking to the surface. The gland has an IP68/69 rating and withstands high-pressure and high-temperature washdowns. Typical applications can be found in the food & beverage and pharmaceutical industries.

Approvals



Application advantage

- Highly corrosion resistant
- Smooth surface
- No hard edges
- IP68/69 protection
- NSF 169 for use in splash zone or non-food zone

Technical data



Material:

- body: stainless steel: V4.A (1.4404/316L)
- insert: polyamide
- sealing ring: silicone
- O-ring: silicone

IP Protection:

- M12 - M20: IP69
- M25 - M32: IP68, 10 bar
- M25 - M32: IP68, 5 bar



Approvals:

according to DIN EN ISO 14 159
according to DIN EN 1672-2
NSF 169



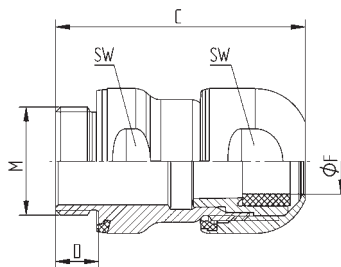
Temperature range:

-40°C to +100°C

Part number	Thread	UL status	Clamping range (øF)		Wrenching flats (SW) in	Thread length (D) in	Min ø above braiding in	Pack size
			in	mm				
53806720	M12 x 1.5	Recognized	0.158 - 0.276	4 - 7	0.630	0.256	0.079	5
53806722	M16 x 1.5	Recognized	0.236 - 0.394	6 - 10	0.788	0.276	0.157	5
53806724	M20 x 1.5	Recognized	0.276 - 0.512	7 - 13	0.946	0.315	0.197	5
53806726	M25 x 1.5	Recognized	0.355 - 0.670	9 - 17	1.143	0.315	0.295	5
53806728	M32 x 1.5	Recognized	0.433 - 0.827	11 - 21	1.418	0.354	0.354	5
53806731	M40 x 1.5	Listed	0.748 - 1.102	19 - 28	1.772	0.354	0.591	5
53806732	M50 x 1.5	Listed	1.063 - 1.378	27 - 35	2.126	0.394	0.827	5

SKINTOP® HYGIENIC SC

Hygienic stainless steel strain relief with FDA-approved sealing material for EMC applications



SKINTOP® HYGIENIC SC is a stainless steel cable gland for EMC applications that uses FDA-approved material and is designed with special design features which prevent micro-organisms and bacteria from sticking to the surface. It has an IP68/69 rating and withstands high pressure and high temperature washdowns.

Approvals



Application advantage

- Special sealing element for the food & beverage industry
- FDA-approved sealing
- Optimal EMC protection
- Corrosion resistant
- IP68/69 protection
- NSF 169 for use in food zone non-contact

Technical data



Material:

- body: stainless steel: V4A (1.4404/316L)
- insert: polyamide
- sealing: special elastomer



Temperature range:

-20°C to +100°C

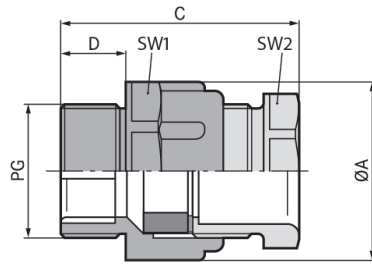


IP Protection:

IP68, 10 bar
IP69
NSF 169

Part number	Thread	UL status	Clamping range (øF)		Wrenching flats (SW) in	Thread length (D) in	Min ø above braiding in	Pack size
			in	mm				
53105300	M12 x 1.5	Recognized	0.158 - 0.236	4 - 6	0.630	0.256	0.079	5
53105301	M16 x 1.5	Recognized	0.256 - 0.374	6.5 - 9.5	0.788	0.276	0.157	5
53105302	M20 x 1.5	Recognized	0.355 - 0.472	9 - 12	0.945	0.315	0.197	5
53105303	M25 x 1.5	Recognized	0.453 - 0.610	11.5 - 15.5	1.142	0.315	0.295	5

SKINDICHT® SVFK



The SKINDICHT® SVFK is a compact strain relief connector for flat cable made of polystyrene. The special neoprene bushing provides a flexible seal over a wide range of cable widths. Ideal for use with ÖLFLEX® FLAT, ÖLFLEX® LIFT F, or ÖLFLEX® CRANE F.

■ Approvals



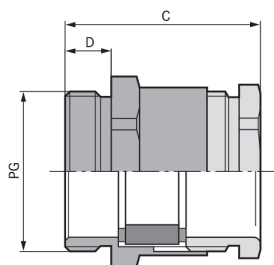
■ Technical data

	Material:		IP Protection:	IP54
	- body:	polystyrene		
	- seal:	neoprene bushing	RAL Color:	light gray (RAL 7035)
	Temperature range:	-20°C to +60°C		

Part number	Thread	Minimum flat cable width		Maximum flat cable width		Minimum cable thickness		Maximum cable thickness		Wrenching flats (SW1) (SW2)		Overall length (C)	Thread length (D)	Pack size
		in	mm	in	mm	in	mm	in	mm	in	in			
52005470	PG 16	—	—	0.591	15	—	—	0.197	5	1.064	0.906	1.56	0.39	25
52005680	PG 21	0.394	10	0.808	20.5	0.118	3	0.315	8	1.261	1.182	1.69	0.43	25
52005690	PG 29	0.591	15	1.064	27	0.158	4	0.453	11.5	1.655	1.615	1.77	0.43	25
52005700	PG 36	0.985	25	1.340	34	0.158	4	0.453	11.5	2.088	1.970	2.01	0.51	10
52005710	PG 42	1.182	30	1.576	40	0.197	5	0.473	12	2.364	2.167	2.13	0.51	5
52005720	PG 48	1.379	35	1.773	45	0.197	5	0.473	12	2.561	2.364	2.17	0.59	5

SKINDICHT® SVF

Brass strain relief connectors for flat & festoon cable with PG thread



Complete the installation



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SM locknuts
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The SKINDICHT® SVF is a compact strain relief connector made of nickel-plated brass for flat cable. The special neoprene bushing provides a flexible seal over a wide range of cable widths. Ideal for use with ÖLFLEX® FLAT, ÖLFLEX® LIFT F, or ÖLFLEX® CRANE F.

Approvals



Technical data

Material:

- body: nickel-plated brass
- seal: neoprene bushing

IP Protection:

IP54

Locknuts:

add SKINDICHT® SM, page 542



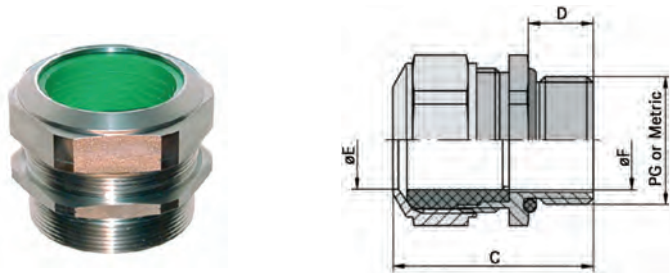
Temperature range:

-20°C to +100°C

Part number	Thread	Minimum flat cable width		Maximum flat cable width		Minimum cable thickness		Maximum cable thickness		Wrenching flats		Overall length (C) in	Thread length (D) in	Pack size
		in	mm	in	mm	in	mm	in	mm	(SW1) in	(SW2) in			
52005480	PG 16	—	—	0.630	16	—	—	0.197	5	0.946	0.867	1.08	0.26	25
52005490	PG 21	0.355	9	0.827	21	0.118	3	0.315	8	1.182	1.103	1.18	0.28	25
52005500	PG 29	0.552	14	1.182	30	0.158	4	0.453	11.5	1.576	1.458	1.24	0.32	10
52005510	PG 36	0.946	24	1.576	40	0.158	4	0.453	11.5	1.970	1.852	1.42	0.35	10
52005520	PG 42	1.143	29	1.773	45	0.197	5	0.473	12	2.246	2.128	1.58	0.39	5
52005530	PG 48	1.340	34	1.970	50	0.197	5	0.473	12	2.522	2.364	1.64	0.39	5

SKINDICHT® CN/CN-M

Chromium-nickel steel strain relief with PG & metric thread



SKINDICHT® CN/CN-M is a high quality, chromium-nickel steel cable gland that is able to withstand extreme temperatures. This gland is ideal for harsh environments, including pharmaceutical, petrochemical, and offshore applications.

Application advantage

- Suitable for use in temperatures up to +200°C (392°F)
- Highly resistant to acids, caustics, and aggressive solvents

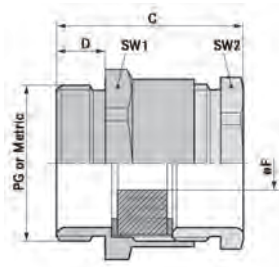
Approvals**Technical data**

	Material:	chromium-nickel steel (type 303) in acc. with DIN material no. 1.4305		Temperature range:	-40°C to +200°C
	- body:				
	- seal:				
	- O-ring:				
		FPM		IP Protection:	IP68, 10 bar IP69
		FPM			

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Thread length (D) in	Min ø above braiding in	Pack size
		in	mm				
PG							
52032520	PG 9	0.236 - 0.394	6 - 10	0.71	1.10	0.39	5
52032525	PG 11	0.217 - 0.472	5.5 - 12	0.87	1.26	0.39	5
52032540	PG 13	0.315 - 0.591	8 - 15	0.94	1.34	0.39	5
52032550	PG 16	0.315 - 0.591	8 - 15	0.94	1.34	0.39	5
52032560	PG 21	0.492 - 0.807	12.5 - 20.5	1.18	1.65	0.47	5
52032570	PG 29	0.748 - 1.082	19 - 27.5	1.61	2.09	0.47	5
Metric							
52032580	M12 x 1.5	0.138 - 0.197	3.5 - 5	0.67	1.06	0.39	5
52032590	M12 x 1.5	0.197 - 0.256	5 - 6.5	0.67	1.06	0.39	5
52032600	M12 x 1.5	0.256 - 0.315	6.5 - 8	0.67	1.06	0.39	5
52032610	M16 x 1.5	0.315 - 0.413	8 - 10.5	0.71	1.18	0.39	5
52032620	M20 x 1.5	0.433 - 0.591	11 - 15	0.94	1.22	0.39	5
52032630	M25 x 1.5	0.630 - 0.807	16 - 20.5	1.18	1.42	0.43	5
52032640	M32 x 1.5	0.827 - 1.004	21 - 25.5	1.42	1.61	0.51	5
52032650	M40 x 1.5	1.122 - 1.300	28.5 - 33	1.81	1.73	0.51	1
52032660	M50 x 1.5	1.457 - 1.654	37 - 42	2.17	1.89	0.55	1
52032670	M63 x 1.5	1.811 - 2.047	46 - 52	2.76	2.01	0.55	1

SKINDICHT® SVRE/SVRE-M

Nickel-plated brass cable clamp with PG & metric thread



Complete the installation

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SM locknuts
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O-rings
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The SKINDICHT® SVRE cable clamp is a compact general-purpose cable clamp with an adjustable multi-layered bushing which accommodates a large cable diameter range.

Approvals



Application advantage

- Provides cost savings: storage of fewer sizes due to adjustable bushing
- Suitable for a wide variety of applications that require compact, reliable strain relief
- Cost-effective strain relief solution

Technical data



Material:

- body: nickel-plated brass
- bushing/incised sealing: CR
- PG: CR
- metric: CR/NBR



O-rings:

add O-rings, page 555



Temperature range:

-20°C to +80°C



IP Protection:

IP54



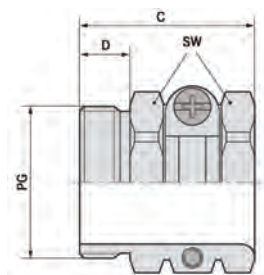
Locknuts:

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Part number	Outer thread	Inner thread	Incised sealing ring (oF)	Max. internal diameter	Wrenching flats		Overall length (C)	Thread length (D)	Pack size
			in	in	(SW1) in	(SW2) in	in	in	
PG									
52005540	PG 9	PG 9	0.20 / 0.31	—	0.67	0.59	0.890	0.236	100
52000310	PG 11	PG 11	0.28 / 0.39 / 0.49	—	0.79	0.71	0.890	0.236	50
52000320	PG 13	PG 13	0.28 / 0.41 / 0.51 / 0.63	—	0.87	0.79	1.028	0.256	50
52000330	PG 16	PG 16	0.31 / 0.41 / 0.51 / 0.63	—	0.94	0.87	1.067	0.256	50
52000340	PG 21	PG 21	0.43 / 0.59 / 0.71 / 0.79	—	1.18	1.10	1.166	0.276	50
52000350	PG 29	PG 29	0.75 / 0.91 / 1.06 / 1.22	—	1.57	1.46	1.284	0.315	50
52000360	PG 36	PG 36	0.98 / 1.10 / 1.22 / 1.38	—	1.97	1.85	1.520	0.354	20
52005550	PG 42	PG 42	1.38 / 1.54 / 1.67 / 1.81	—	2.24	2.13	1.717	0.394	10
52005560	PG 48	PG 48	1.59 / 1.73 / 1.85 / 1.99	—	2.52	2.36	1.776	0.394	10
Metric									
52104980	M16 x 1.5	PG 9	0.20 / 0.31	0.47	0.71	0.59	0.851	0.197	100
52104990	M20 x 1.5	PG 11	0.28 / 0.39 / 0.49	0.59	0.87	0.71	0.890	0.236	50
52105000	M20 x 1.5	PG 13	0.28 / 0.41 / 0.51 / 0.63	0.59	0.87	0.79	1.008	0.236	50
52105010	M20 x 1.5	PG 16	0.31 / 0.41 / 0.51 / 0.63	0.59	0.94	0.87	1.048	0.236	50
52105002	M25 x 1.5	PG 21	0.43 / 0.59 / 0.71 / 0.79	0.79	1.18	1.10	0.921	0.276	50
52105003	M32 x 1.5	PG 29	0.75 / 0.91 / 1.06 / 1.22	1.06	1.57	1.46	1.284	0.315	50
52105004	M40 x 1.5	PG 36	0.98 / 1.10 / 1.22 / 1.38	1.34	1.97	1.85	1.481	0.315	20
52105005	M50 x 1.5	PG 42	1.38 / 1.54 / 1.67 / 1.81	1.73	2.24	2.13	1.678	0.354	5
52105006	M63 x 1.5	PG 48	1.59 / 1.73 / 1.85 / 1.99	2.13	2.60	2.36	1.776	0.394	5

SKINDICHT® SH

Nickel-plated brass cable clamp with single saddle clamp and PG thread

**Complete the installation**SKINDICHT®
SM locknuts
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The SKINDICHT® SH cable clamp is an extremely durable compact strain relief cable gland constructed of corrosion-resistant nickel-plated brass. Strain relief is achieved by use of a specially formed nickel-plated brass bracket that provides a secure locking system.

Application advantage

- Durable, compact, and corrosion-resistant cable clamp
- Excellent in harsh environment applications including exposure to seawater and chemicals
- Cost-effective strain relief solution

Approvals**Technical data****Material:**

- body:

nickel-plated brass

**Temperature range:**

-20°C to +200°C

**Locknuts:**

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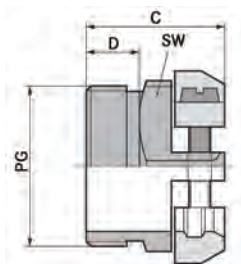
**IP Protection:**

IP20

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Max. installation diameter in	Pack size
		in	mm					
52000830	PG 7	0.315 - 0.394	8.0 - 10.0	0.591	0.689	0.216	0.866	50
52000840	PG 9	0.394 - 0.492	10.0 - 12.5	0.669	0.807	0.236	0.985	50
52000850	PG 11	0.433 - 0.591	11.0 - 15.0	0.788	0.847	0.236	1.103	50
52000860	PG 13	0.551 - 0.650	14.0 - 16.5	0.866	0.945	0.295	1.260	25
52000870	PG 16	0.591 - 0.709	15.0 - 18.0	0.945	1.024	0.295	1.379	25
52000880	PG 21	0.709 - 0.925	18.0 - 23.5	1.182	1.142	0.315	1.812	25
52000890	PG 29	0.906 - 1.221	23.0 - 31.0	1.615	1.300	0.315	2.285	10
52000900	PG 36	1.142 - 1.595	29.0 - 40.5	1.970	1.438	0.374	2.758	10
52000910	PG 42	1.339 - 1.773	34.0 - 45.0	2.245	1.497	0.394	3.073	5
52000920	PG 48	1.536 - 1.970	39.0 - 50.0	2.521	1.556	0.453	3.388	5

SKINDICHT® SK

Nickel-plated brass strain relief with double saddle clamp and PG thread



Complete the installation



SKINDICHT®
SM locknuts
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The SKINDICHT® SK cable gland is equipped with two nickel-plated brass saddle clamps that guarantee reliable strain relief.

Application advantage

- Durable, compact, and corrosion-resistant cable clamp
- The double saddle clamp arrangement accommodates a wide range of cables that are clamped concentrically

Approvals



Technical data



Material:

- body: nickel-plated brass
- brackets: nickel-plated brass
- screws: nickel-plated brass



Locknuts:

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Temperature range:

-20°C to +200°C



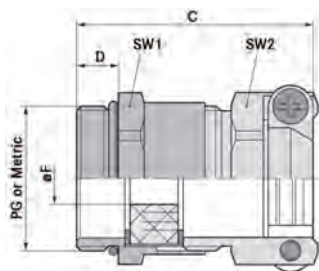
IP Protection:

IP20

Part number	Thread	Clamping range (øF)		Wrenching flats (SW) in	Overall length (C) in	Thread length (D) in	Max. installation diameter in	Pack size
		in	mm					
52004230	PG 9	0.236 - 0.472	6.0 - 12.0	0.75	0.650	0.236	0.945	50
52004240	PG 11	0.276 - 0.591	7.0 - 15.0	0.83	0.650	0.236	1.063	50
52004250	PG 13	0.472 - 0.650	12.0 - 16.5	0.87	0.728	0.295	1.181	25
52004260	PG 16	0.512 - 0.709	13.0 - 18.0	0.94	0.748	0.295	1.300	25
52004270	PG 21	0.591 - 0.906	15.0 - 23.0	1.18	0.886	0.315	1.654	25
51712740	PG 29	0.788 - 1.221	20.0 - 31.0	1.61	1.024	0.315	2.285	10

SKINDICHT® SKZ/SKZ-M

Nickel-plated brass strain relief with double saddle clamp & additional sealing, PG & metric thread

**Complete the installation**SKINDICHT®
SM locknuts
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The SKINDICHT® SKZ cable clamp is a compact strain relief cable gland with double saddle clamps and additional sealing. The sealing is achieved by means of a multi-layered bushing that accommodates a large cable diameter range.

Application advantage

- The extended fitting allows the clamp to reach protection class IP55
- An O-ring is included on the mounting thread to provide additional sealing

Approvals**Technical data****Material:**

- body: nickel-plated brass
- saddle clamp: nickel-plated brass
- screws: nickel-plated brass
- bushing: neoprene
- O-ring: NBR
- incised sealing ring:
 - PG: CR
 - metric: CR/NBR

**Locknuts:**

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**Temperature range:**

-20°C to +80°C

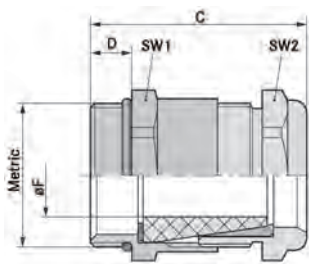
**IP Protection:**

IP55

Part number	Thread	Clamping range (øF)		Wrenching flats		Overall length (C) in	Thread length (D) in	Max. installation diameter in	Pack size
		in	mm	(SW1) in	(SW2) in				
PG									
52004280	PG 9	0.236 - 0.334	6.0 - 8.5	0.67	0.67	1.182	0.236	0.945	50
52004290	PG 11	0.315 - 0.472	8.0 - 12.0	0.79	0.83	1.182	0.236	1.063	50
52004300	PG 13	0.472 - 0.551	12.0 - 14.0	0.87	0.87	1.339	0.256	1.182	25
52004310	PG 16	0.512 - 0.630	13.0 - 16.0	0.94	0.94	1.379	0.256	1.300	25
52004320	PG 21	0.591 - 0.827	15.0 - 21.0	1.18	1.18	1.615	0.276	1.654	25
52005570	PG 29	0.788 - 1.142	20.0 - 29.0	1.57	1.61	1.812	0.315	2.285	10
Metric									
52106800	M16 x 1.5	0.197 - 0.315	5.0 - 8.0	0.71	0.67	1.142	0.197	0.945	50
52106810	M20 x 1.5	0.276 - 0.472	7.0 - 12.0	0.87	0.79	1.182	0.236	1.063	50
52106820	M20 x 1.5	0.433 - 0.512	11.0 - 13.0	0.87	0.87	1.319	0.236	1.181	25
52106830	M20 x 1.5	0.512 - 0.591	13.0 - 15.0	0.94	0.94	1.359	0.236	1.299	25
52106840	M25 x 1.5	0.630 - 0.760	16.0 - 19.3	1.18	1.18	1.615	0.276	1.654	25
52106850	M32 x 1.5	0.748 - 1.063	19.0 - 27.0	1.57	1.61	1.812	0.315	2.283	10

SKINDICHT® SHV-M

Nickel-plated brass strain relief with sealing capability up to 300 ft (10 bar) and metric thread



Complete the installation



SKINDICHT®
SM locknuts
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The SKINDICHT® SHV-M cable gland is a metallic strain relief cable gland with a special tapered seal designed to provide liquid-tight sealing down to 300 feet (10 bar) of water pressure. An O-ring is included on the mounting thread to provide additional sealing.

Application advantage

- Excellent compression strength and strain relief
- Ideal for underwater applications where water pressure-tight protection is required

Approvals



Technical data



Material:

- body: nickel-plated brass
- cone seal: CR (NBR)
- O-ring: NBR



Temperature range:

-20°C to +80°C



IP Protection:

IP68, 10 bar



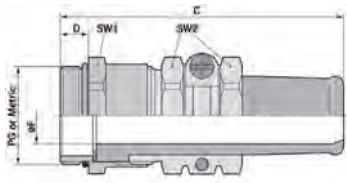
Locknuts:

add SKINDICHT® SM-M, page 542

Part number	Outer thread	Inner thread	Bushing OD in	Clamping range (øF)		Wrenching flats		Overall length (C) in	Thread length (D) in	Pack size
				in	mm	(SW1) in	(SW2) in			
52105270	M12 x 1.5	PG 7	0.197	0.118 - 0.189	3.0 - 4.8	0.551	0.551	1.024	0.197	50
52105280	M16 x 1.5	PG 9	0.236	0.177 - 0.228	4.5 - 5.8	0.709	0.669	1.044	0.197	50
52105290	M16 x 1.5	PG 9	0.276	0.177 - 0.267	4.5 - 6.8	0.709	0.669	1.044	0.197	50
52105300	M20 x 1.5	PG 11	0.276	0.177 - 0.267	4.5 - 6.8	0.866	0.788	1.221	0.236	25
52105310	M20 x 1.5	PG 11	0.354	0.256 - 0.346	6.5 - 8.8	0.866	0.788	1.221	0.236	25
52105320	M20 x 1.5	PG 13	0.354	0.256 - 0.346	6.5 - 8.8	0.866	0.866	1.280	0.236	25
52105330	M20 x 1.5	PG 13	0.433	0.354 - 0.425	9.0 - 10.8	0.866	0.866	1.280	0.236	25
52105340	M20 x 1.5	PG 16	0.433	0.354 - 0.425	9.0 - 10.8	0.945	0.945	1.359	0.236	25
52105350	M20 x 1.5	PG 16	0.512	0.374 - 0.504	9.5 - 12.8	0.945	0.945	1.359	0.236	25
52105360	M20 x 1.5	PG 16	0.591	0.512 - 0.583	13.0 - 14.8	0.945	0.945	1.359	0.236	25
52105370	M25 x 1.5	PG 21	0.630	0.531 - 0.622	13.5 - 15.8	1.182	1.182	1.516	0.276	25
52105380	M25 x 1.5	PG 21	0.709	0.591 - 0.701	15.0 - 17.8	1.182	1.182	1.516	0.276	25
52105390	M25 x 1.5	PG 21	0.787	0.689 - 0.780	17.5 - 19.8	1.182	1.182	1.516	0.276	25
52105400	M32 x 1.5	PG 29	0.866	0.689 - 0.858	17.5 - 21.8	1.576	1.576	1.674	0.315	10
52105410	M32 x 1.5	PG 29	0.945	0.748 - 0.937	19.0 - 23.8	1.576	1.576	1.674	0.315	10
52105420	M32 x 1.5	PG 29	1.024	0.906 - 1.016	23.0 - 25.8	1.576	1.576	1.674	0.315	10

SKINDICHT® SR/SR-M

Nickel-plated strain relief with single saddle clamp & special neoprene bushing, PG & metric thread



Complete the installation



SKINDICHT®
SM locknuts
page 542

The SKINDICHT® SR cable clamp is a compact strain relief cable gland constructed of corrosion-resistant nickel-plated brass. Strain relief is achieved by use of specially formed nickel-plated brass saddle clamps and a full length neoprene bushing that protects the cable from over-stress and conductor breakage while providing an effective and durable seal.

Application advantage

- The neoprene bushing provides both a seal and high bend protection
- Strain relief is achieved through the specially formed saddle clamps

Approvals



Technical data



Material:

- body: nickel-plated brass
- saddle clamp: nickel-plated brass
- screws & bracket: nickel-plated brass
- O-ring: NBR
- anti-kink protection:
 - PG: CR
 - metric: CR/NBR



Locknuts:

add SKINDICHT® SM, page 542



Temperature range:

-20°C to +80°C



IP Protection:

IP65

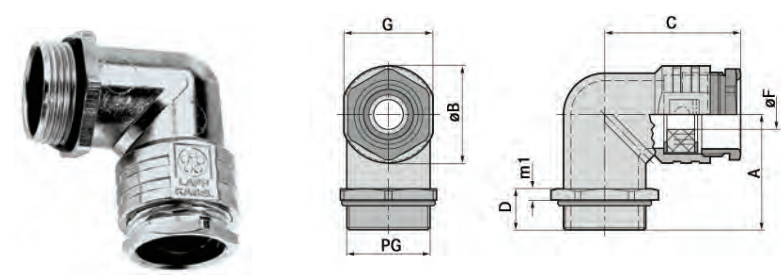
SKINDICHT® SR

Part number	Outer thread	Inner thread	Opening seal	Clamping range (øF)		Wrenching flats		Overall length (C) in	Thread length (D) in	Max. installation diameter in	Pack size
				in	mm	(SW1) in	(SW2) in				
52000990	PG 7	PG 5	0.20	0.138 - 0.197	3.5 - 5.0	0.55	0.59	1.968	0.197	0.91	50
52001000	PG 9	PG 7	0.28	0.217 - 0.276	5.5 - 7.0	0.67	0.67	2.039	0.236	0.98	50
52001010	PG 11	PG 7	0.28	0.217 - 0.276	5.5 - 7.0	0.79	0.79	2.206	0.236	1.10	25
52001020	PG 11	PG 9	0.35	0.295 - 0.354	7.5 - 9.0	0.79	0.79	2.206	0.236	1.10	25
52001030	PG 13	PG 9	0.35	0.295 - 0.354	7.5 - 9.0	0.87	0.87	2.422	0.256	1.26	25
52001040	PG 13	PG 11	0.43	0.354 - 0.433	9.0 - 11.0	0.87	0.87	2.422	0.256	1.26	25
52001050	PG 13	PG 13	0.51	0.433 - 0.512	11.0 - 13.0	0.87	0.87	2.422	0.256	1.26	25
52001060	PG 16	PG 13	0.51	0.453 - 0.512	11.5 - 13.0	0.94	0.94	2.639	0.256	1.38	25
52001070	PG 16	PG 15	0.59	0.512 - 0.591	13.0 - 15.0	0.94	0.94	2.639	0.256	1.38	25
52001080	PG 21	PG 15	0.59	0.531 - 0.591	13.5 - 15.0	1.18	1.18	3.112	0.276	1.81	25
52001090	PG 21	PG 17	0.67	0.591 - 0.669	15.0 - 17.0	1.18	1.18	3.112	0.276	1.81	25
52001100	PG 21	PG 19	0.75	0.669 - 0.748	17.0 - 19.0	1.18	1.18	3.112	0.276	1.81	25
52001110	PG 21	PG 20	0.79	0.709 - 0.787	18.0 - 20.0	1.18	1.18	3.112	0.276	1.81	25
52001120	PG 29	PG 20	0.79	0.709 - 0.787	18.0 - 20.0	1.57	1.61	3.585	0.315	2.32	10
52001130	PG 29	PG 23	0.91	0.827 - 0.906	21.0 - 23.0	1.57	1.61	3.585	0.315	2.32	10
52001140	PG 29	PG 25	0.98	0.906 - 0.984	23.0 - 25.0	1.57	1.61	3.585	0.315	2.32	10
52001150	PG 36	PG 26	1.02	0.906 - 1.024	23.0 - 26.0	1.97	1.97	4.334	0.354	2.76	5
52001160	PG 36	PG 30	1.18	1.063 - 1.181	27.0 - 30.0	1.97	1.97	4.334	0.354	2.76	5
52001170	PG 36	PG 33	1.30	1.181 - 1.299	30.0 - 33.0	1.97	1.97	4.334	0.354	2.76	5
52001180	PG 36	PG 35	1.38	1.260 - 1.378	32.0 - 35.0	1.97	1.97	4.334	0.354	2.76	5
52001190	PG 42	PG 35	1.38	1.260 - 1.378	32.0 - 35.0	2.24	2.24	4.491	0.394	2.95	5
52001200	PG 42	PG 38	1.50	1.378 - 1.496	35.0 - 38.0	2.24	2.24	4.491	0.394	2.95	5
52001210	PG 42	PG 40	1.57	1.417 - 1.575	36.0 - 40.0	2.24	2.24	4.491	0.394	2.95	5
52001220	PG 48	PG 40	1.57	1.417 - 1.575	36.0 - 40.0	2.52	2.52	4.688	0.394	3.27	1
52001230	PG 48	PG 44	1.73	1.575 - 1.732	40.0 - 44.0	2.52	2.52	4.688	0.394	3.27	1

SKINDICHT® SR-M

Part number	Outer thread	Inner thread	Opening seal	Clamping range (øF)		Wrenching flats		Overall length (C) in	Thread length (D) in	Max. installation diameter in	Pack size
				in	mm	(SW1) in	(SW2) in				
52106410	M12 x 1.5	PG 7	0.20	0.157 - 0.197	4.0 - 5.0	0.55	0.59	1.930	0.197	0.91	50
52106420	M16 x 1.5	PG 9	0.28	0.217 - 0.276	5.5 - 7.0	0.71	0.67	1.970	0.197	0.98	50
52106430	M20 x 1.5	PG 11	0.28	0.217 - 0.276	5.5 - 7.0	0.87	0.79	2.167	0.236	1.10	25
52106440	M20 x 1.5	PG 11	0.35	0.295 - 0.354	7.5 - 9.0	0.87	0.79	2.167	0.236	1.10	25
52106450	M20 x 1.5	PG 13	0.35	0.295 - 0.354	7.5 - 9.0	0.87	0.87	2.364	0.236	1.26	25
52106460	M20 x 1.5	PG 13	0.43	0.354 - 0.433	9.0 - 11.0	0.87	0.87	2.364	0.236	1.26	25
52106470	M20 x 1.5	PG 13	0.51	0.433 - 0.512	11.0 - 13.0	0.87	0.87	2.364	0.236	1.26	25
52106480	M20 x 1.5	PG 16	0.51	0.472 - 0.512	12.0 - 13.0	0.94	0.94	2.561	0.236	1.38	25
52106481	M20 x 1.5	PG 16	0.59	0.512 - 0.591	13.0 - 15.0	0.94	0.94	2.600	0.236	1.38	25
52106490	M25 x 1.5	PG 21	0.59	0.492 - 0.591	12.5 - 15.0	1.18	1.18	3.092	0.276	1.81	25
52106500	M25 x 1.5	PG 21	0.67	0.551 - 0.669	14.0 - 17.0	1.18	1.18	3.092	0.276	1.81	25
52106510	M25 x 1.5	PG 21	0.75	0.669 - 0.748	17.0 - 19.0	1.18	1.18	3.092	0.276	1.81	25
52106520	M25 x 1.5	PG 21	0.79	0.669 - 0.788	17.0 - 20.0	1.18	1.18	3.092	0.276	1.81	25
52106530	M32 x 1.5	PG 29	0.79	0.748 - 0.788	19.0 - 20.0	1.57	1.61	3.565	0.315	2.32	10
52106540	M32 x 1.5	PG 29	0.91	0.866 - 0.906	22.0 - 23.0	1.57	1.61	3.565	0.315	2.32	10
52106550	M32 x 1.5	PG 29	0.98	0.906 - 0.985	23.0 - 25.0	1.57	1.61	3.565	0.315	2.32	10
52106560	M40 x 1.5	PG 36	1.02	0.945 - 1.024	24.0 - 26.0	1.97	1.97	4.255	0.315	2.76	5
52106570	M40 x 1.5	PG 36	1.18	1.103 - 1.182	28.0 - 30.0	1.97	1.97	4.255	0.315	2.76	5
52106580	M40 x 1.5	PG 36	1.30	1.221 - 1.300	31.0 - 33.0	1.97	1.97	4.255	0.315	2.76	5
52106590	M40 x 1.5	PG 36	1.38	1.300 - 1.359	33.0 - 34.5	1.97	1.97	4.255	0.315	2.76	5
52106600	M50 x 1.5	PG 42	1.38	1.221 - 1.359	31.0 - 34.5	2.24	2.24	4.373	0.354	2.95	5
52106610	M50 x 1.5	PG 42	1.50	1.260 - 1.497	32.0 - 38.0	2.24	2.24	4.373	0.354	2.95	5
52106620	M50 x 1.5	PG 42	1.57	1.457 - 1.576	37.0 - 40.0	2.24	2.24	4.373	0.354	2.95	5
52106630	M63 x 1.5	PG 48	1.57	1.260 - 1.576	32.0 - 40.0	2.60	2.52	4.649	0.394	3.27	1
52106640	M63 x 1.5	PG 48	1.73	1.418 - 1.733	36.0 - 44.0	2.60	2.52	4.649	0.394	3.27	1

SKINDICHT® RWV
Nickel-plated die cast zinc 90° elbow strain relief with PG thread



Complete the installation



SKINDICHT®
SM locknuts
page 542

The SKINDICHT® RWV metallic cable gland has a compact 90° elbow design, constructed of corrosion-resistant nickel-plated die-cast zinc with an internal neoprene seal. The SKINDICHT® RWV elbow cable gland can also be used in conjunction with any SKINTOP® PG metallic fitting shown in the catalog to achieve desired connections.

- Application advantage**
- Compact, durable 90° strain relief
 - Ideal for applications where space is an issue and cables must run parallel to the housing unit

Approvals



Technical data			
 Material:	- body:	die-cast zinc	 Locknuts: add SKINDICHT® SM, page 542
	- pressure screw:	nickel-plated brass	
	- nut:	nickel-plated brass	
	- bushing:	CR	
	- O-ring:	NBR	
 Temperature range:	- with sealing ring:	-20°C to +80°C	 IP Protection: IP55
	- without sealing ring:	-20°C to +100°C	

Part number	Thread	Vertical rise (A) in	Screw size (øB) in	Overall width (G) in	Incised sealing ring size (øF) in	Overall length (C) in	Thread length (D) in	Pack size
52004180	PG 7	0.808	0.603	0.552	0.197	1.024	0.335	25
52004190	PG 9	0.926	0.721	0.670	0.197 / 0.315	1.103	0.374	25
52004200	PG 11	1.024	0.863	0.788	0.276 / 0.394 / 0.493	1.241	0.394	25
52004210	PG 13	1.123	0.946	0.867	0.276 / 0.414 / 0.512 / 0.630	1.359	0.414	25
52004220	PG 16	1.221	1.028	0.946	0.315 / 0.414 / 0.532 / 0.630	1.399	0.433	10
52005420	PG 21	1.320	1.281	1.182	0.433 / 0.591 / 0.709 / 0.788	1.675	0.453	10
52004225	PG 29	1.694	1.655	1.576	0.749 / 0.906 / 1.064 / 1.221	1.931	0.512	10

Locknuts & fittings

- 541 SKINTOP® GMP-GL/GMP-GL-M/GMP-HF-M**
Hexagonal locknuts for NPT, PG & metric strain relief cable glands
- 542 SKINDICHT® SM/SM-M**
Nickel-plated brass locknuts for NPT, PG & metric strain relief cable glands
- 543 SKINDICHT® SM-PE/SM-PE-M**
Nickel-plated brass grounding locknuts for PG & metric strain relief cable glands
- 544 SKINTOP® BRUSH Add-on**
EMC fitting for polyamide glands with metric thread
- SKINTOP® BRUSH ADD-ON 24** 
EMC fitting for multi-cable bushing systems

Bushings

- 545 SKINTOP® DIX**
Multiple cable sealing bushings for PG & polyamide NPT strain relief cable glands
- 545 SKINTOP® DIX-DV**
Inserts for SKINTOP® DIX NPT, PG & metric bushings
- 546 SKINTOP® DIX-M**
Multiple cable sealing bushings for metric & metallic NPT strain relief cable glands
- 547 SKINTOP® DIX-ASi**
Cable bushings for UNITRONIC® ASi bus cable; PG & metric

Hole plugs

- 548 SKINTOP® SD**
Dust- & moisture-proof plugs for NPT, PG & metric strain relief cable glands
- 548 SKINTOP® DV**
Dust- & moisture-proof plugs for NPT, PG & metric strain relief cable glands
- 549 SKINDICHT® BL/BL-M**
Brass plugs for use in PG & metric threaded holes
- 549 SKINDICHT® BLK/BLK-GL & BLK-M/BLK-GL-M**
Plastic plugs for use in PG & metric threaded holes
- 550 SKINTOP® CLICK BLK**
Polyamide plugs for use in metric-sized mounting holes

Reducers, enlargers & adapters

- 550 SKINDICHT® MR/MR-M**
Nickel-plated brass reducers for PG & metric SKINTOP® cable glands
- 551 SKINDICHT® KU/KUS**
Polyamide reducers for PG SKINTOP® cable glands
- 551 SKINDICHT® ME/ME-M**
Nickel-plated brass enlargers for PG & metric SKINTOP® cable glands
- 552 PG → NPT adapters**
- 552 NPT → PG adapters**
- 552 SKINDICHT® MA-M metric → NPT adapters**
- 552 SKINDICHT® MA-M metric → PG adapters**

552 SKINDICHT® ZS-M metric → PG adapters

553 SKINDICHT® MA-PG → metric adapters

553 SKINDICHT® A-PG → metric adapters

Sealing

554 SKINDICHT® E/E-M
Polychloroprene incised sealing for PG & metric SKINTOP® cable glands

555 SKINDICHT® Perbunan® O-rings: PG

555 SKINDICHT® JT PTFE O-rings: PG

555 SKINDICHT® Viton® O-rings: PG

556 SKINDICHT® Perbunan® O-rings: metric

556 SKINDICHT® JT PTFE O-rings: metric

556 SKINDICHT® Viton® O-rings: metric

Tools

557 SKINMATIC® RZ wrench

557 SKINMATIC® MH-Set

557 PTS4 wire stripper

557 BULLI cable shears

558 KS 15 cable shears

558 SKINMATIC® KB-M
Multi-purpose tap

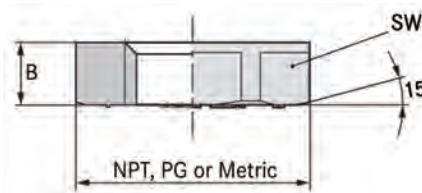
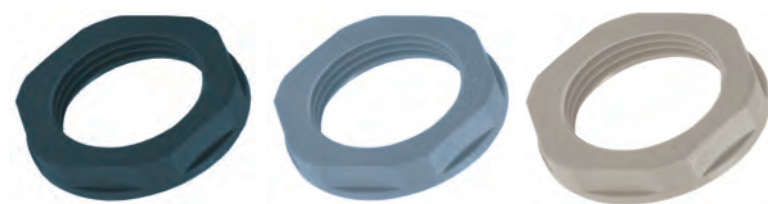
558 SKINDICHT® SB-M
Spiral drill

558 SKINDICHT® GB-M
Thread cutting bit

558 SKINMATIC® QUICK Set

SKINTOP® GMP-GL/GMP-GL-M/GMP-HF-M

Hexagonal locknuts for NPT, PG & metric strain relief cable glands



Designed for use with SKINTOP® cable glands with NPT, PG & metric threads.

■ Technical data

 Material:	glass fiber-reinforced polyamide halogen-free polyamide, V-0 per UL 94
 Temperature range:	-20°C to +100°C
 Color:	black (RAL 9005), UV resistant gray (RAL 7001) - halogen-free: light gray (RAL 7035)

■ Approvals: NPT & halogen-free metric



■ Approvals: PG & metric*



* UL only when used with UL-approved SKINTOP® polyamide cable glands

Part number			Size	Wrenching flats (SW) (in)	Nut thickness (D) in	Pack size
black	gray	light gray				
NPT thread						
911370	—	—	NPT 3⁄8"	0.866	0.198	100
911371	—	—	NPT 1⁄2"	1.063	0.236	100
911372	—	—	NPT 3⁄4"	1.417	0.276	50
911373	—	—	NPT 1"	1.654	0.276	50
PG thread						
53019200	53019000	—	PG 7	0.748	0.197	100
53019210	53019010	—	PG 9	0.866	0.197	100
53019220	53019020	—	PG 11	0.945	0.197	100
53019230	53019030	—	PG 13	1.063	0.236	100
53019240	53019040	—	PG 16	1.181	0.236	100
53019250	53019050	—	PG 21	1.418	0.276	50
53019260	53019060	—	PG 29	1.812	0.276	50
53019270	53019070	—	PG 36	2.364	0.315	25
53019280	53019080	—	PG 42	2.561	0.315	25
53019290	53019090	—	PG 48	2.758	0.315	25
Metric thread						
53119100	53119000	53119200	M12 x 1.5	0.669	0.197	100
53119110	53119010	53119210	M16 x 1.5	0.866	0.197	100
53119120	53119020	53119220	M20 x 1.5	1.063	0.236	100
53119130	53119030	53119230	M25 x 1.5	1.339	0.236	100
53119140	53119040	53119240	M32 x 1.5	1.615	0.276	100
53119150	53119050	53119250	M40 x 1.5	1.970	0.276	25
53119160	53119060	53119260	M50 x 1.5	2.364	0.315	25
53119170	53119070	53119270	M63 x 1.5	2.955	0.315	25

SKINDICHT® SM/SM-M

Nickel-plated brass locknuts for NPT, PG & metric strain relief cable glands



SKINDICHT® SM locknuts are required wherever NPT, PG or metric cable glands must be fastened to a housing, and tapped holes cannot be provided.

Technical data**Material:**

- NPT: stamped steel
- PG & metric: nickel-plated brass

**Temperature range:**

-20°C to +100°C

Approvals

NPT

Part number	Size	Wrenching flats	Nut thickness in	Pack size
811092*	NPT 3/8"	0.945	0.138	100
811093	NPT 1/2"	1.102	0.157	100
811094	NPT 3/4"	1.378	0.157	50
811095	NPT 1"	1.693	0.157	50

*Product features a hex design

PG

Part number	Size	Wrenching flats	Nut thickness in	Pack size
52003490	PG 7	0.591	0.110	100
52003500	PG 9	0.709	0.110	100
52003510	PG 11	0.827	0.118	100
52003520	PG 13	0.906	0.118	100
52003530	PG 16	1.024	0.118	100
52003540	PG 21	1.260	0.138	50
52003550	PG 29	1.614	0.138	50
52003560	PG 36	2.009	0.197	25
52003570	PG 42	2.364	0.197	25
52003580	PG 48	2.521	0.216	25

metric

Part number	Size	Wrenching flats	Nut thickness in	Pack size
52103000	M12 x 1.5	0.591	0.118	100
52103010	M16 x 1.5	0.748	0.118	100
52103020	M20 x 1.5	0.945	0.138	100
52103030	M25 x 1.5	1.182	0.157	100
52103040	M32 x 1.5	1.418	0.157	100
52103050	M40 x 1.5	1.812	0.197	50
52103060	M50 x 1.5	2.364	0.197	50
52103070	M63 x 1.5	2.758	0.197	25
52103071	M75 x 1.5	3.349	0.315	5
52103072	M90 x 2.0	4.018	0.394	1
52103073	M110 x 2.0	4.885	0.472	1

SKINDICHT® SM-PE/SM-PE-M

Nickel-plated brass grounding locknuts for PG & metric strain relief cable glands



SKINDICHT® SM-PE locknuts are required wherever varnished, anodized, and powder-coated housings are used. When the locknut is tightened, the raised edges cut through the insulating layer, guaranteeing optimum contact. Ideal for use with SKINTOP® MS-SC or SKINTOP® BRUSH grounding cable glands.

■ Approvals



■ Technical data

 **Material:** nickel-plated brass

 **Temperature range:** -20°C to +100°C

PG

Part number	Size	Wrenching flats	Nut thickness in	Pack size
52103200	PG 7	0.591	0.185	100
52103210	PG 9	0.709	0.185	100
52103220	PG 11	0.827	0.185	100
52103230	PG 13	0.906	0.185	100
52103240	PG 16	1.024	0.185	100
52103250	PG 21	1.260	0.204	50
52103260	PG 29	1.615	0.224	50
52103270	PG 36	2.009	0.263	50

metric

Part number	Size	Wrenching flats	Nut thickness in	Pack size
52103300	M12 x 1.5	0.591	0.137	100
52103310	M16 x 1.5	0.748	0.137	100
52103320	M20 x 1.5	0.945	0.145	100
52103330	M25 x 1.5	1.182	0.165	50
52103340	M32 x 1.5	1.418	0.185	50
52103350	M40 x 1.5	1.812	0.216	25
52103360	M50 x 1.5	2.364	0.216	10
52103370	M63 x 1.5	2.758	0.275	10
52103371	M75 x 1.5	3.349	0.315	5
52103372	M90 x 2.0	4.018	0.394	1
52103373	M110 x 2.0	4.885	0.472	1

SKINTOP® BRUSH Add-on
EMC fitting for polyamide glands with metric thread



The SKINTOP® BRUSH Add-on is an innovative grounding solution for polyamide glands. The brush design provides a 360° screen contact. When the fitting is tightened, the raised edges cut through the insulation layer of the housing, guaranteeing a reliable EMC contact.



Application advantage

- Reliable EMI protection
- Optimum, low resistance 360° screen contact
- Easy and quick assembling and disassembling

Approvals



Technical data

- Material:**
- body: nickel-plated brass
 - brush: brass
- Temperature range:** -70°C to +200°C
- Approvals:** UL pending

Part number	Size	Minimum Ø above braiding		Wrenching flats	Thread length	Pack size
		in	mm			
54110840	M16 x 1.5	0.197	5	0.945	0.394	25
54110841	M20 x 1.5	0.197	5	0.945	0.394	10
54110842	M25 x 1.5	0.197	5	1.182	0.394	10
54110843	M32 x 1.5	0.315	8	1.536	0.472	10
54110844	M40 x 1.5	0.394	10	1.851	0.472	5
54110845	M50 x 1.5	0.551	14	2.206	0.472	5

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® DIX

Multiple cable sealing bushings for PG & polyamide NPT strain relief cable glands



■ Technical data

**Material:**

- DIX bushings: silicone
- DIX-DV inserts: polyamide

**Color:**

- DIX bushings: natural
- DIX-DV inserts: natural

**Temperature range:** -40°C to +100°C**IP Protection:**

IP54
IP68 when all holes are
optimally filled*

* Size of holes is equal to size of cable OD

SKINTOP® DIX is a multiple-hole sealing bushing designed to allow several cables to be inserted through one cable gland. This results in a reduction of space and cost as a separate cable gland is not required for each cable. For metal NPT glands, use SKINTOP® DIX-M bushings, page 546.

■ Approvals



Part number	SKINTOP® size		Number of holes	Size of holes		Pack size
	PG	polyamide NPT		in	mm	
53607225	PG 7	—	2	0.098	2.5	100
53607417	PG 7	—	4	0.067	1.7	100
53609230	PG 9	NPT 3/8"	2	0.118	3.0	100
53611225	PG 11	—	2	0.098	2.5	100
53611240	PG 11	—	2	0.157	4.0	100
53611330	PG 11	—	3	0.118	3.0	100
53611430	PG 11	—	4	0.118	3.0	100
53613250	PG 13	NPT 1/2"	2	0.197	5.0	100
53613340	PG 13	NPT 1/2"	3	0.157	4.0	100
53613440	PG 13	NPT 1/2"	4	0.157	4.0	100
53616140	PG 16	—	1	0.157	4.0	50
53616225	PG 16	—	2	0.098	2.5	50
53616240	PG 16	—	2	0.157	4.0	50
53616260	PG 16	—	2	0.236	6.0	50
53616340	PG 16	—	3	0.157	4.0	50
53616350	PG 16	—	3	0.197	5.0	50
53616356	PG 16	—	3	0.220	5.6	50
53616360	PG 16	—	3	0.236	6.0	50
53616440	PG 16	—	4	0.157	4.0	50
53616450	PG 16	—	4	0.197	5.0	50
53616540	PG 16	—	5	0.157	4.0	50
53621270	PG 21	NPT 3/4"	2	0.276	7.0	50
53621280	PG 21	NPT 3/4"	2	0.315	8.0	50
53621370	PG 21	NPT 3/4"	3	0.275	7.0	50
53621380	PG 21	NPT 3/4"	3	0.315	8.0	50
53621460	PG 21	NPT 3/4"	4	0.236	6.0	50
53621550	PG 21	NPT 3/4"	5	0.197	5.0	50
53621640	PG 21	NPT 3/4"	6	0.157	4.0	50
53629290	PG 29	NPT 1"	2	0.354	9.0	50
53629390	PG 29	NPT 1"	3	0.354	9.0	50
53629470	PG 29	NPT 1"	4	0.275	7.0	50
53629480	PG 29	NPT 1"	4	0.315	8.0	50
53629490	PG 29	NPT 1"	4	0.354	9.0	50
53629556	PG 29	NPT 1"	5	0.220	5.6	50
53629570	PG 29	NPT 1"	5	0.275	7.0	50
53629675	PG 29	NPT 1"	6	0.295	7.5	50

SKINTOP® DIX-DV

Inserts for SKINTOP® DIX NPT, PG & metric bushings



SKINTOP® DIX-DV inserts are designed to seal unused positions in SKINTOP® DIX bushings, which need to be closed to ensure the proper class protection.

Part number	Diameter		Length		Pack size
	in	mm	in	mm	
53100003	0.118	3.0	0.354	9	100
53100004	0.157	4.0	0.354	9	100
53100005	0.197	5.0	0.433	11	100
53100006	0.236	6.0	0.551	14	100
53100007	0.275	7.0	0.551	14	100
53100008	0.315	8.0	0.551	14	100
53100009	0.354	9.0	0.551	14	100

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® DIX-M

Multiple cable sealing bushings for metric & metallic NPT strain relief cable glands



SKINTOP® DIX is a multiple-hole sealing bushing designed to allow several cables to be inserted through one cable gland. This results in a reduction of space and cost as a separate cable gland is not required for each cable. Special shapes are available upon request, contact sales for details. For polyamide NPT glands, use SKINTOP® DIX bushings, page 545.

Technical data

Material:	NBR (rubber)	IP Protection:	IP54 IP68 when all holes are optimally filled*
Temperature range:	-40°C to +100°C		
Color:	black (RAL 9005)	* Size of holes is equal to size of cable OD	

Approvals



Part number	SKINTOP® size		Number of holes	Size of holes		Pack size
	metric	metal NPT		in	mm	
53316220	M16	NPT 3/8"	2	0.078	2.0	100
53316230	M16	NPT 3/8"	2	0.118	3.0	100
53316240	M16	NPT 3/8"	2	0.157	4.0	100
53320250	M20	NPT 1/2"	2	0.197	5.0	100
53320260	M20	NPT 1/2"	2	0.236	6.0	100
53320340	M20	NPT 1/2"	3	0.157	4.0	100
53320353	M20	NPT 1/2"	3	0.208	5.3	100
53320430	M20	NPT 1/2"	4	0.118	3.0	100
53320440	M20	NPT 1/2"	4	0.157	4.0	100
53320920	M20	NPT 1/2"	9	0.078	2.0	100
53325260	M25	NPT 3/4"	2	0.236	6.0	50
53325350	M25	NPT 3/4"	3	0.197	5.0	50
53325360	M25	NPT 3/4"	3	0.236	6.0	50
53325370	M25	NPT 3/4"	3	0.275	7.0	50
53325450	M25	NPT 3/4"	4	0.197	5.0	50
53325540	M25	NPT 3/4"	5	0.157	4.0	50
53325640	M25	NPT 3/4"	6	0.157	4.0	50
53332270	M32	NPT 1"	2	0.275	7.0	50
53332280	M32	NPT 1"	2	0.315	8.0	50
53332290	M32	NPT 1"	2	0.354	9.0	50
53332370	M32	NPT 1"	3	0.275	7.0	50
53332380	M32	NPT 1"	3	0.315	8.0	50
53332460	M32	NPT 1"	4	0.236	6.0	50

Part number	SKINTOP® size		Number of holes	Size of holes		Pack size
	metric	metal NPT		in	mm	
53332470	M32	NPT 1"	4	0.275	7.0	50
53332560	M32	NPT 1"	5	0.236	6.0	50
53332650	M32	NPT 1"	6	0.197	5.0	50
53332840	M32	NPT 1"	8	0.157	4.0	50
53332850	M32	NPT 1"	8	0.197	5.0	50
53332940	M32	NPT 1"	9	0.157	4.0	50
53340290	M40	NPT 1 1/4"	2	0.354	9.0	25
53340310	M40	NPT 1 1/4"	3	0.394	10.0	25
53340480	M40	NPT 1 1/4"	4	0.315	8.0	25
53340490	M40	NPT 1 1/4"	4	0.354	9.0	25
53340580	M40	NPT 1 1/4"	5	0.315	8.0	25
53340590	M40	NPT 1 1/4"	5	0.354	9.0	25
53340670	M40	NPT 1 1/4"	6	0.275	7.0	25
53340860	M40	NPT 1 1/4"	8	0.236	6.0	25
53340969	M40	NPT 1 1/4"	9	0.271	6.9	25
53350680	M50	NPT 1 1/2"	6	0.315	8.0	10
53350780	M50	NPT 1 1/2"	7	0.315	8.0	10
53350870	M50	NPT 1 1/2"	8	0.275	7.0	10
53350118	M50	NPT 1 1/2"	11	0.315	8.0	10
53350147	M50	NPT 1 1/2"	14	0.275	7.0	10
53350164	M50	NPT 1 1/2"	16	0.157	4.0	10
53350166	M50	NPT 1 1/2"	16	0.236	6.0	10

SKINTOP® DIX-ASi

Cable bushings for UNITRONIC® ASi bus cable; PG & metric



Approvals



Complete the installation



SKINTOP®
PG thread
page 498



SKINTOP®
metric thread
page 499

Part number	Size	Pack size
53611000	PG 11	50
53611001	M20	50

For use with UNITRONIC® ASi bus cable, page 190.

Technical data

 Material:	NBR
 Temperature range:	-40°C to +100°C
 Color:	black (RAL 9005)
 IP Protection class:	IP54 IP68, 5 bar (when optimally filled)
 Approvals:	CE & RoHS

SKINTOP® SD

Dust- & moisture-proof plugs for NPT, PG & metric strain relief cable glands



SKINTOP® SD is designed for use when a SKINTOP® cable gland is installed without a cable. The plugs prevent dust and dirt from entering the housing interior until final cable installation is completed.

Technical data

 **Material:** PE foam

Approvals



Part number	PG	SKINTOP® size			Diameter		Thickness		Pack size
		metric	polyamide NPT	metal NPT	in	mm	in	mm	
52025235	PG 7	—	—	—	0.413	10.5	0.078	2	500
52025240	PG 9	—	NPT 3/8"	—	0.531	13.5	0.078	2	500
52025250	PG 11	—	—	—	0.669	17.0	0.078	2	250
52025260	PG 13	—	NPT 1/2"	—	0.728	18.5	0.078	2	250
52025270	PG 16	—	—	—	0.807	20.5	0.078	2	250
52025280	PG 21	—	NPT 3/4"	—	1.024	26.0	0.078	2	100
52025290	PG 29	—	NPT 1"	—	1.359	34.5	0.078	2	100
52025291	PG 36	—	—	—	1.753	44.5	0.078	2	100
54113100	—	M12	—	NPT 1/4"	0.453	11.5	0.078	2	100
54113110	—	M16	—	NPT 3/8"	0.591	15.0	0.078	2	100
54113120	—	M20	—	NPT 1/2"	0.788	20.0	0.078	2	100
54113130	—	M25	—	NPT 3/4"	0.985	25.0	0.078	2	50
54113140	—	M32	—	NPT 1"	1.182	30.0	0.078	2	50
54113150	—	M40	—	NPT 1 1/4"	1.576	40.0	0.078	2	25
54113160	—	M50	—	NPT 1 1/2"	1.930	49.0	0.078	2	25
54113170	—	M63	—	NPT 2"	2.285	58.0	0.078	2	25

SKINTOP® DV

Dust- & moisture-proof plugs for NPT, PG & metric strain relief cable glands



SKINTOP® DV is designed for use when a SKINTOP® cable gland is installed without a cable. They prevent dust, dirt, and moisture from entering the housing interior until final cable installation is completed.

Technical data

 **Material:** CR

Approvals



Part number	PG	SKINTOP® size			Diameter		Thickness		Pack size
		metric	polyamide NPT	metal NPT	in	mm	in	mm	
53800640	PG 7	—	—	—	0.275	7.0	0.256	6.5	500
53800641	PG 9	—	NPT 3/8"	—	0.334	8.5	0.295	7.5	500
53800579	PG 11	—	—	—	0.413	10.5	0.334	8.5	250
53800583	PG 13	—	NPT 1/2"	—	0.492	12.5	0.334	8.5	250
53800642	PG 16	—	—	—	0.571	14.5	0.354	9.0	250
53800643	PG 21	—	NPT 3/4"	—	0.728	18.5	0.433	11.0	100
54113000	—	M12	—	NPT 1/4"	0.283	7.2	0.275	7.0	500
54113010	—	M16	—	NPT 3/8"	0.394	10.0	0.315	8.0	500
54113020	—	M20	—	NPT 1/2"	0.520	13.2	0.330	8.4	250
54113030	—	M25	—	NPT 3/4"	0.677	17.2	0.374	9.5	250
54113040	—	M32	—	NPT 1"	0.835	21.2	0.472	12.0	250
54113050	—	M40	—	NPT 1 1/4"	1.111	28.2	0.571	14.5	100
54113060	—	M50	—	NPT 1 1/2"	1.410	35.8	0.709	18.0	100
54113070	—	M63	—	NPT 2"	1.796	45.6	0.788	20.0	50

SKINDICHT® BL/BL-M

Brass plugs for use in PG & metric threaded holes

with O-ring



without O-ring



Complete the installation

Blind
hood plug:
10053010

Technical data

Material:

- body: nickel-plated brass
- O-ring: NBR

Temperature range:

- with O-ring: -30°C to +100°C
- without O-ring: -60°C to +200°C

IP Protection:

IP54
IP68 with O-ring

Approvals



Part number		Size	Outer diameter in	Pack size
without O-ring	with O-ring			
52002680	54001610	PG 7	0.55	100
52003390	54000071	PG 9	0.67	100
52003400	54000040	PG 11	0.79	100
52003410	54001630	PG 13	0.87	100
52003420	54001640	PG 16	0.95	100
52003430	54001660	PG 21	1.18	50
52003440	54001620	PG 29	1.54	50
52003450	54001650	PG 36	1.97	25
52003460	54001670	PG 42	2.25	10
52002790	54001680	PG 48	2.52	10
52103100	52103105	M12 x 1.5	0.55	100
52103110	52103115	M16 x 1.5	0.71	100
52103120	52103125	M20 x 1.5	0.87	100
52103130	52103135	M25 x 1.5	1.10	100
52103140	52103145	M32 x 1.5	1.38	50
52103150	52103155	M40 x 1.5	1.73	25
52103160	52103165	M50 x 1.5	2.13	10
52103170	52103175	M63 x 1.5	2.76	10
—	52103190	M75 x 1.5	3.15	1

SKINDICHT® BLK/BLK-GL & BLK-M/BLK-GL-M

Plastic plugs for use in PG & metric threaded holes

BLK/BLK-GL



BLK-M/BLK-GL-M



Technical data

Material:

- BLK & BLK-M: polystyrene
- BLK-GL & BLK-GL-M: glass fiber reinforced polyamide

RAL Color:

- BLK, BLK-GL & BLK-M: light gray (RAL 7035)
- BLK-GL-M: black (RAL 9005)
- silver gray (RAL 7001)

Temperature range:

- BLK: -20°C to +70°C
- BLK-M: -25°C to +60°C
- BLK-GL & BLK-GL-M: -40°C to +100°C

IP Protection:

- IP54
- BLK-GL-M with O-ring: IP68

PG

Part number		Size	Thread length in	Pack size
BLK	BLK-GL			
52005949	52024848	PG 7	0.24	100
52005950	52024849	PG 9	0.24	100
52005960	52024850	PG 11	0.24	100
52005970	52024851	PG 13	0.24	100
52005980	52024852	PG 16	0.24	100

Part number		Size	Thread length in	Pack size
BLK	BLK-GL			
52005990	52024853	PG 21	0.31	50
52006000	52024854	PG 29	0.31	50
52006010	52024855	PG 36	0.39	25
52006020	52024856	PG 42	0.39	25
52006030	52024857	PG 48	0.47	25

Approvals



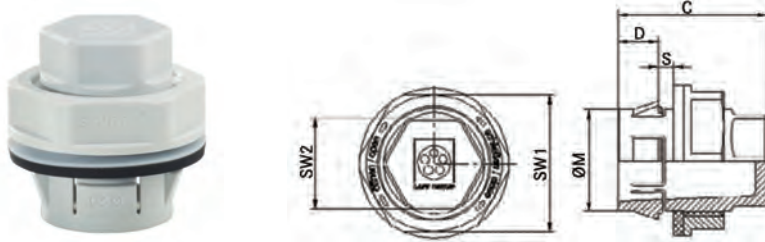
Metric

Part number: BLK-M	Part number: BLK-GL-M				Size	Thread length in	Pack size
	silver gray		black				
	without O-ring	with O-ring	without O-ring	with O-ring			
52006600	52006101	52006109	52006103	52006106	M12 x 1.5	0.24	100
52006610	52006111	52006119	52006113	52006116	M16 x 1.5	0.24	100
52006620	52006121	52006129	52006123	52006126	M20 x 1.5	0.24	100
52006630	52006131	52006139	52006133	52006136	M25 x 1.5	0.31	100
52006640	52006141	52006149	52006143	52006146	M32 x 1.5	0.31	50
52006650	52006151	52006159	52006153	52006156	M40 x 1.5	0.31	25
52006660	52006161	52006169	52006163	52006166	M50 x 1.5	0.39	25
52006670	52006171	52006179	52006173	52006176	M63 x 1.5	0.47	25

If not otherwise specified, all values relating to the product are nominal values.
Photographs are not to scale and are not true representations of the products in question.

SKINTOP® CLICK BLK

Polyamide plugs for use in metric-sized mounting holes



Technical data

	Material:	
	- body:	special polyamide
	- seal:	special elastomer
	Temperature range:	-20°C to +100°C
	Color:	light gray (RAL 7035)
	IP Protection:	IP68, 5 bar

Part number	Size	Wall thickness (S) IN	Wrenching flats (SW1) in	(SW2) in	Overall length (C) in	Thread length (D) in	Pack size
52109013	M16	0.04 - 0.16	0.55	0.87	1.12	0.31	50
52109014	M20	0.04 - 0.16	0.71	1.06	1.16	0.31	25
52109015	M25	0.04 - 0.16	0.87	0.55	1.20	0.31	25

Approvals



SKINDICHT® MR/MR-M

Nickel-plated brass reducers for PG & metric SKINTOP® cable glands



SKINDICHT® MR/MR-M reducers allow the use of cable glands with smaller connection threads than the existing thread hole.

Technical data

	Material:	nickel-plated brass
	Temperature range:	-60°C to +200°C

Approvals



PG

Part number	Size male → female	Pack size
52003750	PG 9 → PG 7	100
52003760	PG 11 → PG 7	100
52003770	PG 11 → PG 9	100
52003780	PG 13 → PG 7	100
52003790	PG 13 → PG 9	100
52003800	PG 13 → PG 11	100
52003810	PG 16 → PG 7	100
52003820	PG 16 → PG 9	100
52003830	PG 16 → PG 11	100
52003840	PG 16 → PG 13	100
52003850	PG 21 → PG 11	50
52003860	PG 21 → PG 13	50
52003870	PG 21 → PG 16	50
52003880	PG 29 → PG 13	50
52003890	PG 29 → PG 16	50
52003900	PG 29 → PG 21	50
52003910	PG 36 → PG 16	25
52003920	PG 36 → PG 21	25
52003930	PG 36 → PG 29	25
52003940	PG 42 → PG 29	10
52003950	PG 42 → PG 36	10
52003970	PG 48 → PG 36	10
52003980	PG 42 → PG 42	10

metric

Part number	Size male → female	Pack size
52104310	M16 → M12	100
52104311	M20 → M12	100
52104312	M20 → M16	100
52104313	M25 → M16	50
52104314	M25 → M20	50
52104315	M32 → M20	50
52104316	M32 → M25	50
52104317	M40 → M25	50
52104318	M40 → M32	25
52104319	M50 → M32	25
52104320	M50 → M40	10
52104321	M63 → M40	10
52104322	M63 → M50	10

SKINDICHT® KU/KUS

Polyamide reducers for PG SKINTOP® cable glands

SKINTOP® KU

SKINTOP® KUS



SKINDICHT® KU/KUS reducers allow the use of cable glands with smaller connection threads than the existing thread hole.

Technical data

Material: glass fiber reinforced polyamide

Temperature range: -40°C to +100°C

Color: light gray (RAL 7035)

Approvals**SKINTOP® KU**

Part number	Size		Pack size
	male	→ female	
51730010	PG 11	→ PG 7	50
52025100	PG 13	→ PG 7	50
52025110	PG 16	→ PG 9	50
52025120	PG 21	→ PG 11	25
51730040	PG 21	→ PG 13	25
52025130	PG 29	→ PG 13	25
51730050	PG 29	→ PG 16	25
52025140	PG 36	→ PG 16	25
52025150	PG 36	→ PG 21	25
52025050	PG 36	→ PG 29	25
52025160	PG 42	→ PG 21	25
52025170	PG 42	→ PG 29	25
52025060	PG 42	→ PG 36	25
52025180	PG 48	→ PG 29	25
52025190	PG 48	→ PG 36	25
52025070	PG 48	→ PG 42	25

SKINTOP® KUS

Part number	Size		Pack size
	male	→ female	
52025040	PG 9	→ PG 7	50
51730060	PG 11	→ PG 9	50
51730070	PG 13	→ PG 11	50
51730080	PG 16	→ PG 13	50

SKINDICHT® ME/ME-M

Nickel-plated brass enlargers for PG & metric SKINTOP® cable glands



SKINDICHT® ME/ME-M enlargers allow the use of cable glands with larger connection threads than the existing thread hole.

Technical data

Material: nickel-plated brass
- O-ring (metric only): NBR

Temperature range: -60°C to +200°C

Approvals**PG**

Part number	Size		Pack size
	male	→ female	
52003990	PG 7	→ PG 9	100
52004000	PG 9	→ PG 11	100
52004010	PG 9	→ PG 13	100
52004020	PG 11	→ PG 13	100
52004030	PG 11	→ PG 16	100
52004040	PG 11	→ PG 21	100
52004050	PG 13	→ PG 16	100
52004060	PG 13	→ PG 21	50
52004070	PG 16	→ PG 21	50
52004080	PG 16	→ PG 29	50
52004090	PG 21	→ PG 29	50
52004100	PG 29	→ PG 36	50
52004110	PG 36	→ PG 42	10
52004120	PG 42	→ PG 48	10

metric

Part number	Size*		Pack size
	male	→ female	
52104450	M12	→ M16	100
52104452	M16	→ M20	100
52104454	M20	→ M25	100
52104456	M25	→ M32	50
52104458	M32	→ M40	50
52104460	M40	→ M50	25
52104462	M50	→ M63	25

* Thread pitch is 1.5 mm

PG → NPT adapters



Part number	Size		Pack size
	male	→ female	
01112	PG 11	→ NPT ½"	10
01312	PG 13	→ NPT ½"	10
01612	PG 16	→ NPT ½"	10
02112	PG 21	→ NPT ½"	10
02134	PG 21	→ NPT ¾"	10
02910	PG 29	→ NPT 1"	10
03614	PG 36	→ NPT 1¼"	10

■ Approvals



NPT → PG adapters



Part number	Size		Pack size
	male	→ female	
11211	NPT ½"	→ PG 11	10
11213	NPT ½"	→ PG 13	10
11216	NPT ½"	→ PG 16	10
13411	NPT ¾"	→ PG 11	10
13413	NPT ¾"	→ PG 13	10
13416	NPT ¾"	→ PG 16	10
13421	NPT ¾"	→ PG 21	10
11116	NPT 1"	→ PG 16	10

■ Approvals



SKINDICHT® MA-M metric → NPT adapters



Part number	Size*		Pack size
	male	→ female	
54020100	M16	→ NPT ½"	50
54020110	M20	→ NPT ½"	50
54020120	M25	→ NPT ½"	25
54020130	M25	→ NPT ¾"	25
54020140	M32	→ NPT ½"	25
54020152	M32	→ NPT 1"	25
54020153	M40	→ NPT 1¼"	10

* Thread pitch is 1.5 mm

■ Approvals



SKINDICHT® MA-M metric → PG adapters



Part number	Size*		Pack size
	male	→ female	
52104200	M16	→ PG 7	100
52104210	M20	→ PG 9	50
52104220	M25	→ PG 11	50
52104230	M25	→ PG 13	50
52104240	M25	→ PG 16	50
52104250	M32	→ PG 16	25

* Thread pitch is 1.5 mm

Part number	Size*		Pack size
	male	→ female	
52104260	M32	→ PG 21	25
52104270	M40	→ PG 21	25
52104280	M50	→ PG 29	10
52104290	M63	→ PG 36	10
52104300	M63	→ PG 42	10

■ Approvals



SKINDICHT® ZS-M metric → PG adapters



Part number	Size*		Pack size
	male	→ female	
52104330	M12	→ PG 7	100
52104340	M16	→ PG 9	100
52104010	M16	→ PG 11	100
52104360	M20	→ PG 11	100
52104370	M20	→ PG 16	100
52104380	M20	→ PG 16	50

* Thread pitch is 1.5 mm

Part number	Size*		Pack size
	male	→ female	
52104400	M25	→ PG 21	50
52104410	M32	→ PG 29	25
52104420	M40	→ PG 36	10
52104430	M50	→ PG 42	10
52104440	M63	→ PG 48	10

■ Approvals



SKINDICHT® MA-PG → metric adapters

shape A



shape B



■ Technical data

Material: nickel-plated brass

■ Approvals



shape A

Part number	Size*		Pack size
	male	→ female	
52104492	PG 11	→ M16	50
52104495	PG 16	→ M20	50
52104497	PG 21	→ M20	50
52104498	PG 21	→ M25	50
52104500	PG 29	→ M25	25
52104501	PG 29	→ M32	25
52104503	PG 36	→ M40	10

shape B

Part number	Size*		Pack size
	male	→ female	
52104490	PG 7	→ M12	100
52104491	PG 9	→ M16	50
52104493	PG 11	→ M20	50
52104494	PG 13	→ M20	50
52104496	PG 16	→ M25	50
52104499	PG 21	→ M32	50
52104502	PG 29	→ M40	10

* Thread pitch is 1.5 mm

SKINDICHT® A-PG → metric adapters

shape A



shape B



■ Technical data

Material: glass fiber reinforced polyamide

Temperature range: -40°C to +100°C

Color: light gray (RAL 7035)

■ Approvals



Part number		Size*		Pack size
shape A	shape B	male	→ female	
52100320	—	PG 7	→ M12	25
52100321	—	PG 7	→ M16	25
52100322	—	PG 9	→ M12	25
52100323	—	PG 9	→ M16	25
52100324	—	PG 9	→ M20	25
52100325	—	PG 11	→ M16	25
52100326	—	PG 11	→ M20	25
52100327	—	PG 11	→ M25	25
52100328	—	PG 13	→ M16	25
52100329	—	PG 13	→ M20	25
52100330	—	PG 13	→ M25	25
52100331	—	PG 16	→ M20	25
52100332	—	PG 16	→ M25	25
52100333	—	PG 16	→ M32	25
52100334	—	PG 21	→ M25	10
52100335	—	PG 21	→ M32	10
52100336	—	PG 21	→ M40	10
—	52100337	PG 29	→ M32	10
52100338	—	PG 29	→ M40	10
52100339	—	PG 29	→ M50	10
—	52100340	PG 36	→ M40	10
52100341	—	PG 36	→ M50	10
52100342	—	PG 36	→ M63	10
—	52100343	PG 42	→ M40	5
52100344	—	PG 42	→ M50	5
52100345	—	PG 42	→ M63	5
—	52100346	PG 48	→ M50	5
52100347	—	PG 48	→ M63	5

* Thread pitch is 1.5 mm

SKINDICHT® E/E-M

Polychloroprene incised sealing for PG & metric SKINTOP® cable glands



SKINDICHT® E is a polychloroprene incised sealing bushing for use with Lapp's PG strain relief glands. SKINDICHT® E-M is for use with metric cable glands. It can be individually adapted to various cable diameters by removing some of the layers.

PG

Part number	Size	Outer diameter in	Bore diameters in	Thickness in	Pack size
52005780	PG 9	0.53	0.20 / 0.31	0.22	250
52003690	PG 11	0.65	0.28 / 0.39 / 0.49	0.24	250
52003700	PG 13	0.73	0.28 / 0.41 / 0.51 / 0.63	0.26	250
52003710	PG 16	0.81	0.31 / 0.41 / 0.53 / 0.63	0.30	250
52003720	PG 21	1.02	0.43 / 0.59 / 0.71 / 0.79	0.31	100
52003730	PG 29	1.38	0.75 / 0.91 / 1.06 / 1.22	0.37	100
52003740	PG 36	1.77	0.98 / 1.10 / 1.22 / 1.38	0.47	50
52005790	PG 42	2.05	1.40 / 1.54 / 1.67 / 1.81	0.55	50
52005800	PG 48	2.24	1.59 / 1.73 / 1.85 / 1.99	0.55	50

■ Technical data

 Material:	CR
 Temperature range:	-20°C to +80°C
 Color:	black

■ Approvals

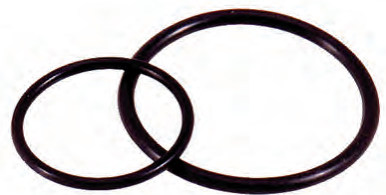


metric

Part number	Size*	Outer diameter in	Bore diameters in	Thickness in	Pack size
52100620	M12	0.39	0.20	0.20	250
52100621	M16	0.54	0.12 / 0.24 / 0.35	0.22	250
52100622	M20	0.69	0.16 / 0.28 / 0.39 / 0.51	0.24	250
52100623	M25	0.89	0.33 / 0.45 / 0.57 / 0.69	0.30	100
52100624	M32	1.17	0.63 / 0.75 / 0.87 / 0.98	0.37	100
52100625	M40	1.48	0.91 / 1.02 / 1.14 / 1.26	0.47	50
52100626	M50	1.87	1.18 / 1.30 / 1.42 / 1.54	0.55	50
52100627	M63	2.39	1.42 / 1.54 / 1.65 / 1.77	0.55	50
52005800	PG 48	2.24	1.59 / 1.73 / 1.85 / 1.99	0.55	50

* Thread pitch is 1.5 mm

SKINDICHT® Perbunan® O-rings: PG



Perbunan® O-rings provide safe sealing against oil, dust, and water when placed on the fastening threads of the connector.

Approvals



Technical data

Material: Perbunan® (NBR),
ozone & UV resistant

Temperature range: -20°C to +100°C

Color: black

Part number	Size	Inner diameter		Thickness		Pack size
		in	mm	in	mm	
53001010	PG 7	0.394	10	0.059	1.5	100
53102011	PG 9	0.512	13	0.059	1.5	100
53001020	PG 11	0.630	16	0.059	1.5	100
52005740	PG 13	0.709	18	0.059	1.5	100
53001030	PG 16	0.788	20	0.059	1.5	100
52005750	PG 21	1.024	26	0.078	2.0	100
53001040	PG 29	1.339	34	0.078	2.0	50
52005760	PG 36	1.733	44	0.078	2.0	50
53001050	PG 42	1.970	50	0.078	2.0	50
52005770	PG 48	2.167	55	0.078	2.0	50

SKINDICHT® JT PTFE O-rings: PG



JT PTFE O-rings provide safe sealing against oil, water, alkalis, acids, solvents, and virtually all chemicals when placed on the fastening threads of a connector. They are suitable for food and dairy applications and have a wide temperature range.

Approvals



Technical data

Material: PTFE

Temperature range: -120°C to +250°C
- Short-term: up to +300°C

Color: white

Part number	Size	Inner diameter		Thickness		Pack size
		in	mm	in	mm	
53801035	PG 7	0.492	0.650	0.078	2.0	100
53801045	PG 9	0.598	0.748	0.078	2.0	100
53801055	PG 11	0.732	0.886	0.078	2.0	100
53801065	PG 13	0.803	0.985	0.078	2.0	100
53801075	PG 16	0.886	1.063	0.078	2.0	100
53801085	PG 21	1.115	1.319	0.118	3.0	50
53801095	PG 29	1.457	1.713	0.118	3.0	50
53801105	PG 36	1.850	2.167	0.118	3.0	25
53801115	PG 42	2.127	2.482	0.118	3.0	25
53801125	PG 48	2.336	2.718	0.118	3.0	25

SKINDICHT® Viton® O-rings: PG



Viton® O-rings provide safe sealing against oil, water, alkalis, acids, solvents, and virtually all chemicals when placed on the fastening threads of a connector. They are also suitable for food and dairy applications and have a wide temperature range.

Approvals



Technical data

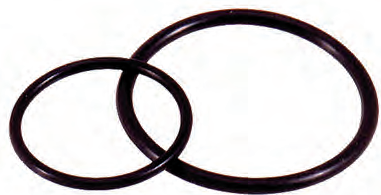
Material: FKM
fluoroelastomer

Temperature range: -20°C to +200°C

Color: green

Part number	Size	Inner diameter		Thickness		Pack size
		in	mm	in	mm	
52023607	PG 7	0.394	10	0.059	1.5	100
52122011	PG 9	0.512	13	0.059	1.5	100
52023602	PG 11	0.630	16	0.059	1.5	100
52023601	PG 13	0.709	18	0.059	1.5	100
52023603	PG 16	0.788	20	0.059	1.5	50
52023604	PG 21	1.024	26	0.078	2.0	50
52023606	PG 29	1.339	34	0.078	2.0	50
52023608	PG 36	1.733	44	0.078	2.0	25
52023609	PG 42	1.970	50	0.078	2.0	25
52023611	PG 48	2.167	55	0.078	2.0	25

SKINDICHT® Perbunan® O-rings: metric



Perbunan® O-rings provide safe sealing against oil, dust, and water when placed on the fastening threads of the connector.

Approvals



Technical data

Material: Perbunan® (NBR),
ozone & UV resistant

Temperature range: -30°C to +100°C

Color: black

Part number	Size	Inner diameter		Thickness		Pack size
		in	mm	in	mm	
53102001	M12 x 1.5	0.354	9.0	0.059	1.5	100
53102000	M12 x 2.0	0.354	9.0	0.078	2.0	100
53102010	M16 x 2.0	0.512	13.0	0.078	2.0	100
53102021	M20 x 1.5	0.669	17.0	0.059	1.5	100
53102020	M20 x 2.0	0.669	17.0	0.078	2.0	100
53102030	M25 x 2.0	0.866	22.0	0.078	2.0	100
53102040	M32 x 2.0	1.103	28.0	0.078	2.0	50
53102050	M40 x 2.0	1.418	36.0	0.078	2.0	50
53102060	M50 x 2.0	1.812	46.0	0.078	2.0	25
53102070	M63 x 2.0	2.245	57.0	0.078	2.0	25

SKINDICHT® JT PTFE O-rings: metric



JT PTFE Teflon O-rings provide safe sealing against oil, water, alkalis, acids, solvents, and virtually all chemicals when placed on the fastening threads of a connector. They are suitable for food and dairy applications and have a wide temperature range.

Approvals



Technical data

Material: PTFE

Temperature range: -120°C to +250°C
- short-term: up to +300°C

Color: white

Part number	Size	Inner diameter		Thickness		Pack size
		in	mm	in	mm	
53801030	M12 x 2.0	0.476	0.654	0.079	2.0	100
53801040	M16 x 2.0	0.634	0.831	0.079	2.0	100
53801050	M20 x 2.0	0.791	1.083	0.079	2.0	100
53801060	M25 x 2.0	0.988	1.315	0.118	3.0	50
53801070	M32 x 2.0	1.264	1.587	0.118	3.0	50
53801080	M40 x 2.0	1.583	2.029	0.118	3.0	25
53801090	M50 x 2.0	1.977	2.427	0.118	3.0	25
53801100	M63 x 2.0	2.490	2.911	0.118	3.0	25

SKINDICHT® Viton® O-rings: metric



Viton® O-rings provide safe sealing against oil, water, alkalis, acids, solvents, and virtually all chemicals when placed on the fastening threads of a connector. They are also suitable for food and dairy applications and have a wide temperature range.

Approvals



Technical data

Material: FKM
fluoroelastomer

Temperature range: -20°C to +200°C

Color: green

Part number	Size	Inner diameter		Thickness		Pack size
		in	mm	in	mm	
52122001	M12 x 1.5	0.354	9.0	0.059	1.5	100
52122000	M12 x 2.0	0.354	9.0	0.078	2.0	100
52122010	M16 x 2.0	0.512	13.0	0.078	2.0	100
52122021	M20 x 1.5	0.669	17.0	0.059	1.5	100
52122020	M20 x 2.0	0.669	17.0	0.078	2.0	100
52122030	M25 x 2.0	0.866	22.0	0.078	2.0	100
52122040	M32 x 2.0	1.103	28.0	0.078	2.0	50
52122050	M40 x 2.0	1.418	36.0	0.078	2.0	50
52122060	M50 x 2.0	1.812	46.0	0.078	2.0	25
52122070	M63 x 2.0	2.245	57.0	0.078	2.0	25

Perbunan® is a registered trademark of BAYER AG. Viton® is a registered trademark of DuPont de Nemour.

If not otherwise specified, all values relating to the product are nominal values.

Photographs are not to scale and are not true representations of the products in question.

SKINMATIC® RZ wrench



The SKINMATIC® RZ tool is designed for fast assembly of cable glands. The wrench has two expandable clamping ranges (lock positions) and fits SKINTOP® sizes PG 7 - 21, NPT 3/8" - NPT 3/4", and M12 - M25. This tool provides access to SKINTOP® glands in cramped conditions and is ideal for OEM installations.

Part number	Width across flats in	Height in	Length in	Pack size
61791260	0.55 - 1.30	3.150	9.843	1

SKINMATIC® MH-Set

Mounting tools for SKINTOP® brass products



MH-Set is a three piece wrench set intended for use with SKINTOP® MS products such as MS-M, MS-SC-M, and MS-NPT. The bearing surface is shaped to prevent the nut from slipping and ensures a quick and safe assembly. The MH-Set includes the following sizes:

- 16/20 mm (M12/M16)
- 24/29 mm (M20/M25)
- 36/45 mm (M32/M40)

Part number	Size	Wrench size		Thickness	
		in	mm	in	mm
61791273	M12/M16	0.630 - 0.788	16 - 20	7.88	200
	M20/M25	0.945 - 1.142	24 - 29	8.66	220
	M32/M40	1.418 - 1.773	36 - 45	9.85	250

PTS4 wire stripper



The PTS4 is designed for stripping single conductors from 0.25 mm² (24 AWG) to 4 mm² (12 AWG). It can be used to strip several conductors of the same gauge size simultaneously. The blades are self-adjusting to prevent damage to the conductors. In addition, the pressure of the cutting jaw may be adjusted. Diagonal cutters are also integrated so that cutting and stripping can be done with the same tool.

Part number	Description	Length in	Weight lbs	Pack size
61725950	PTS4	6.698	0.441	1
61753620	spare spring	—	—	1

BULLI cable shears



The BULLI cutters are special designed for use with fine wire cables up to 16 mm² (6 AWG). It features a latch and spring return, along with a safety lock for extra protection.

Part number	Description	For outer diameter	Length in	Weight lbs	Pack size
61744160	shears	0.630	7.289	0.298	1
61744161	spare spring	—	—	—	1

KS 15 cable shears



Cuts copper and aluminum cables with an outer diameters of up to 15 mm (0.59 in). The KS 15 provides easy, precision cutting that can be used for removing the jacket and stripping wires. Not suitable for steel wire and hard-drawn copper conductors.

Part number	For outer diameter in	Length in	Weight lbs	Pack size
61735975	0.591	6.501	0.463	1

SKINMATIC® KB-M

Multi-purpose tap



For simultaneous core drilling and cutting of metric threads. Especially suitable for thin components and sheet metals.

Part number	Size	Overall length		Drill length		Pack size
		in	mm	in	mm	
61791274	M12 x 1.5	5.12	130	1.18	30	1
61791275	M16 x 1.5	5.91	150	1.38	35	1
61791276	M20 x 1.5	6.50	165	1.57	40	1
61791277	M25 x 1.5	7.28	185	1.77	45	1

SKINDICHT® SB-M

Spiral drill



For drilling the core holes of metric threads.

Part number	Size	Overall length		Drill length		Pack size
		in	mm	in	mm	
61791278	M32 x 1.5	11.85	301	7.09	180	1
61791279	M40 x 1.5	13.75	349	7.88	200	1
61791280	M50 x 1.5	14.53	369	8.66	220	1

SKINDICHT® GB-M

Thread cutting bit



For cutting metric threads.

Part number	Size	Overall length		Drill length		Pack size
		in	mm	in	mm	
61791282	M32 x 1.5	5.91	150	1.10	28	1
61791283	M40 x 1.5	6.69	170	1.10	28	1
61791284	M50 x 1.5	7.48	190	1.26	32	1

SKINMATIC® QUICK Set

Torque wrench set



Ratchet set for metric SKINTOP® plastic and brass cable glands.
Set includes one ratchet with extension, and open nuts for four sizes:
• M12 • M16 • M20 • M25

SKINTOP® QUICK Set

Part number	Width of flats mm	Pack size
61610000	15, 16, 19, 20, 25, 30	1

torque wrench

Part number	Measuring range	Pack size
61610012	2 - 10 N m	1
61610013	5 - 25 N m	1