



SKINTOP® MULTI-M

Cable bushing system with metric thread



Info

- Compact, round multi cable bushing system with innovative gel technology

Benefits

- Large clamping range of 4 mm per bushing due to elastic gel technology with innovative membrane technology
- Easy installation of the cables even for high packing density
- Optimum strain relief at the entire cable bundle
- Not used bushings remain securely sealed

Application range

- Used in areas where a lot of cables and wires need to be inserted into housings with minimum space requirements
- For not harnessed cables and media hoses
- Apparatus and switch cabinet construction
- Automation technology

Product features

- Cables can be inserted directly without using a pricking awl
- Secure sealing at the cable & housing
- High packing density
- Halogen-free and silicone-free
- UV-, ozone- and oil-resistant

Norm references / Approvals

- UL pending

Note

- More versions are to be found in the online catalogue

Included

- SKINTOP® MULTI-M including locknut and O-ring

Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000240
ETIM 5.0/6.0 Class-Description: Cable entry

Certifications
UL pending
Fire behaviour acc. to UL94 V-2
Hazard Level HL 2 acc. to EN 45545-2

Note
On request:
- individual bushing configuration
- other metric thread sizes

Material
Frame: Polycarbonat
Sealing: Gel
O-Ring: NBR

Protection rating
IP 68

Temperature range
With O-ring: -20°C to +100°C
Without O-ring: -30°C to +110°C

Article number	Article designation / size	Max. number of executions	Number of cables x cable Ø	SW wrench size mm	Pieces / PU
SKINTOP® MULTI-M					
52220110	M40x1,5	12	2 x 1-4 mm, 10 x 2-6 mm	46	1
52220111	M50x1,5	18	18 x 2-6 mm	55	1
52220112	M63x1,5	30	30 x 2-6 mm	66	1

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Similar products

- SKINTOP® DIX-M refer to page 713
- SKINTOP® CUBE MULTI refer to page 721
- SKINTOP® MULTI refer to page 717
- SKINTOP® MULTI VENT refer to page 718

Accessories

- SKINTOP® DIX-DV refer to page 715



SKINTOP® MULTI



Info

- Compact multi cable bushing system with innovative gel technology



Benefits

- Large clamping range of 4 mm and AS-I BUS entry system by elastic gel technology with innovative membrane technology
- Easy installation of the cables even for high packing density
- Optimum strain relief at the entire cable bundle
- Error reduction through clear assignment of cable to be installed by a clear marker of implementing points
- Not used bushings remain securely sealed

Application range

- Used in areas where a lot of cables and wires need to be inserted into housings with minimum space requirements
- For not harnessed cables and media hoses
- Apparatus and switch cabinet construction
- Automation technology

Product features

- Cables can be inserted directly without using a pricking awl
- Integrated seal for the cable & housing (captive)
- Halogen-free and silicone-free
- UV-, ozone- and oil-resistant
- The adhesive gel provides a very easy positioning at the enclosure during the assembling

Norm references / Approvals

- UL 50, UL 50E, CSA C22.2
- UL 508A for Industrial Control Panels
- UL File No. E349737

Product Make-up

- For cut-outs for 24-pin industrial connectors (36 x 112 mm)

Included

- SKINTOP® MULTI including mounting material

Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000240
ETIM 5.0/6.0 Class-Description: Cable entry

Certifications
UL File No. E349737
Fire behaviour acc. to UL94 V-2
Hazard Level HL 2 acc. to EN 45545-2

Note
Individual hole configuration on request

Material
Frame: Polycarbonat
Sealing: Gel

Protection rating
IP 68

Temperature range
-30 °C to +110 °C

Article number	Article designation / size	Max. number of executions	Number of cables x cable Ø	Pieces / PU
SKINTOP® MULTI				
52220065	SKINTOP® MULTI Version 1	22	16 x 3-7 mm, 6 x 8-12 mm	1
52220073	SKINTOP® MULTI Version 2	21	5 x 2-6 mm, 8 x 4-8 mm, 3 x 5-9 mm, 2 x 8-12 mm, 1 x 12-16 mm, 2 x AS-I BUS / 2 x 2-4 mm	1
52220080	SKINTOP® MULTI Version 3	30	30 x 2-6 mm	1
52220085	SKINTOP® MULTI Version 4	11	8 x 8-12 mm, 2 x 12-16 mm, 1 x 16-20 mm	1
52220101	SKINTOP® MULTI Version 5	27	27 x 4-8 mm	1
52220104	SKINTOP® MULTI Version 6	24	10 x 2-6 mm, 8 x 4-8 mm, 4 x 7-11mm, 2 x 10-14mm	1

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Similar products

- SKINTOP® CUBE MULTI refer to page 721
- SKINTOP® MULTI VENT refer to page 718

Accessories

- SKINTOP® DIX-DV refer to page 715
- SKINTOP® BRUSH ADD-ON 24 refer to page 722



SKINTOP® MULTI VENT



Info

- Compact multi cable bushing system with innovative gel technology
- Breathable pressure compensation element with membrane technology

Benefits

- Large clamping range of 4 mm and AS-I BUS entry system by elastic gel technology with innovative membrane technology
- Easy installation of the cables even for high packing density
- Optimum strain relief at the entire cable bundle
- Error reduction through clear assignment of cable to be installed by a clear marker of implementing points
- Not used bushings remain securely sealed

Application range

- Used in areas where a lot of cables and wires need to be inserted into housings with minimum space requirements
- For not harnessed cables and media hoses
- Apparatus and switch cabinet construction
- Automation technology

Product features

- Special integrated membrane equalize the pressure balance and enables humidity to stay out of the junction box
- Integrated seal for the cable & housing (captive)
- Halogen-free
- UV-, ozone- and oil-resistant
- The adhesive gel provides a very easy positioning at the enclosure during the assembling

Product Make-up

- For cut-outs for 24-pin industrial connectors (36 x 112 mm)

Note

- Air flow rates: 0.65 l/min

Included

- SKINTOP® MULTI VENT including mounting material

Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000240
ETIM 5.0/6.0 Class-Description: Cable entry

Note
Individual hole configuration on request

Material
Frame: Polycarbonat
Sealing: Gel
Pressure compensation unit: PBT, PTFE, NBR

Protection rating
IP 68

Temperature range
-30°C to +100°C

Article number	Article designation / size	Max. number of executions	Number of cables x cable Ø	Pieces / PU
SKINTOP® MULTI VENT				
52220092	SKINTOP® MULTI VENT Version 1	21	6 x 8-12 mm, 15 x 3-7 mm	1
52220093	SKINTOP® MULTI VENT Version 2	20	4 x 2-6 mm, 8 x 4-8 mm, 3 x 5-9 mm, 2 x 8-12 mm, 1 x 12-16 mm, 2 x AS-I BUS / 2 x 2-4 mm	1
52220094	SKINTOP® MULTI VENT Version 3	29	29 x 2-6 mm	1
52220095	SKINTOP® MULTI VENT Version 4	11	8 x 8-12 mm, 2 x 12-16 mm, 1 x 16-20 mm	1

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Accessories

- SKINTOP® DIX-DV refer to page 715
- SKINTOP® BRUSH ADD-ON 24 refer to page 722





SKINTOP® CUBE

i Info

- Innovative multi-cable bushing system with variable clamping ranges for high flexibility in assembling.
- When disassembling, the frame can remain on the housing and the plug-in module remains securely on the cable.



Benefits

- Variable clamping range
- Vibration-safe module fixation
- Strain relief
- Oil resistance
- Simplified servicing due to easy assembling and disassembling

Application range

- For installation of harnessed cables
- Used in areas where a lot of cables and wires need to be inserted into housings with minimum space requirements
- Apparatus and switch cabinet construction
- Electronic installations
- Automation technology

Norm references / Approvals

- UL 50, UL 50E, CSA C22.2
- UL 508A for Industrial Control Panels
- UL File No. E349737

Product Make-up

- The SKINTOP® CUBE system consists of the SKINTOP® CUBE FRAME and the clip modules SKINTOP® CUBE MODULE.
- For cut-outs for industrial connectors with standard defined boreholes.
- For cut-outs for 16-pin industrial connectors (36 x 86 mm)
- For cut-outs for 24-pin industrial connectors (36 x 112 mm)

Note

- SKINTOP® CUBE MODULE 20x20 BLIND can be used as a blind module and for clamping ranges 1 - 3 mm
- For better strain relief, the cable bundle can be fixed with help of a cable tie

Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000240
ETIM 5.0/6.0 Class-Description: Cable entry

Certifications
UL File No. E349737
Fire behaviour according to UL94 V-2

Note
The installation dimensions and possible module combinations can be found in appendix T21

Material
Frame: glass fibre-reinforced polyamide
Frame seal: CR
Clip module: special polypropylene
Clip module seal: LSE 2

Protection rating
IP 64

Temperature range
Dynamic: -20°C up to +80°C
Static: -40°C up to +80°C

Article number	Article designation / size	Ø F mm	Max. number of executions	Pieces / PU
SKINTOP® CUBE Frame				
52220000	SKINTOP® CUBE FRAME 16		8	1
52220001	SKINTOP® CUBE FRAME 24		10	1
SKINTOP® CUBE clip modules				
52220004	SKINTOP® CUBE MODULE 20x20 BLIND	1.0 - 3.0		5
52220002	SKINTOP® CUBE MODULE 20x20 SMALL	4.0 - 6.0		5
52220003	SKINTOP® CUBE MODULE 20x20 LARGE	6.0 - 9.0		5
52220040	SKINTOP® CUBE MODULE 20x20 AS-I BUS			5
52220005	SKINTOP® CUBE MODULE 40x40 SMALL	9.0 - 12.0		5
52220006	SKINTOP® CUBE MODULE 40x40 LARGE	12.0 - 16.0		5
52220007	SKINTOP® CUBE MODULE 40x40 BLIND			5

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Similar products

- SKINTOP® CUBE MULTI refer to page 721
- SKINTOP® MULTI refer to page 717
- SKINTOP® MULTI VENT refer to page 718

Accessories

- SKINTOP® BRUSH ADD-ON 24 refer to page 722





SKINTOP® CUBE SORTIMO® T-BOXX



Info

- Innovative multi-cable bushing system with variable clamping ranges for high flexibility in assembling.
- When disassembling, the frame can remain on the housing and the plug-in module remains securely on the cable.
- Optimal order in the practical SORTIMO® T-BOXX

Benefits

- Variable clamping range
- Vibration-safe module fixation
- Strain relief
- Oil resistance
- Simplified servicing due to easy assembling and disassembling

Application range

- For installation of harnessed cables
- Used in areas where a lot of cables and wires need to be inserted into housings with minimum space requirements
- Apparatus and switch cabinet construction
- Electronic installations
- Automation technology

Product features

- Optimal order in the practical SORTIMO® T-BOXX
- Small packaging unit, wide variety
- Light and robust, shock- and impact-resistant polypropylene case
- Two sturdy locks - ideal for mounting use e.g. building site

Product Make-up

- The SKINTOP® CUBE system consists of the SKINTOP® CUBE FRAME and the clip modules SKINTOP® CUBE MODULE.
- For cut-outs for 16-pin industrial connectors (36 x 86 mm)
- For cut-outs for 24-pin industrial connectors (36 x 112 mm)

Included

- SKINTOP® CUBE FRAME including mounting material
- Delivery in SORTIMO® T-BOXX
- Assembly instructions
- Screwdriver
- SKINTOP® CUBE FRAME 16
2 Pcs. (PN 52220000)
- SKINTOP® CUBE FRAME 24
2 Pcs. (PN 52220001)
- SKINTOP® CUBE MODULE 20x20 BLIND
5 Pcs. (PN 52220004)
- SKINTOP® CUBE MODULE 20x20 SMALL
5 Pcs. (PN 52220002)
- SKINTOP® CUBE MODULE 20x20 LARGE
5 Pcs. (PN 52220003)
- SKINTOP® CUBE MODULE 20x20 AS-I BUS
5 Pcs. (PN 52220040)
- SKINTOP® CUBE MODULE 40x40 SMALL
5 Pcs. (PN 52220005)
- SKINTOP® CUBE MODULE 40x40 LARGE
5 Pcs. (PN 52220006)
- SKINTOP® CUBE MODULE 40x40 BLIND
5 Pcs. (PN 52220007)

Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000240
ETIM 5.0/6.0 Class-Description: Cable entry

Certifications
UL File No. E349737
Fire behaviour according to UL94 V-2

Material
Frame: glass fibre-reinforced polyamide
Frame seal: CR
Clip module: special polypropylene
Clip module seal: LSE 2

Protection rating
IP 64

Temperature range
Dynamic: -20°C up to +80°C
Static: -40°C up to +80°C

Article number	Article designation / size	Pieces / PU
SKINTOP® CUBE SORTIMO® T-BOXX		
53110031	SKINTOP® CUBE SORTIMO® T-BOXX	1

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SKINTOP® CUBE MULTI

i Info

- Push the cable through the gel membrane and connect directly
- Huge potential of savings through quick installation



Benefits

- Large, variable clamping ranges due to elastic gel technology
- Easy installation of the cables even for high packing density
- Optimum strain relief at the entire cable bundle
- Simplified servicing due to easy assembling and disassembling
- Not used bushings remain securely sealed

Application range

- Used in areas where a lot of cables and wires need to be inserted into housings with minimum space requirements
- For not harnessed cables and media hoses
- Apparatus and switch cabinet construction
- Automation technology

Product features

- SKINTOP® CUBE MULTI Version 1
Number of cable bushings:
9 x 3-6 mm clamping range
9 x 6-9 mm clamping range
2 x 9-13 mm clamping range
1 x 13-16 mm clamping range
- SKINTOP® CUBE MULTI Version 2
Number of cable bushings:
23 x 5-8 mm clamping range

Norm references / Approvals

- UL 50, UL 50E, CSA C22.2
- UL 508A for Industrial Control Panels
- UL File No. E349737

Product Make-up

- The system consists of SKINTOP® CUBE FRAME and a gel insert SKINTOP® CUBE MULTI.
- Removal of the gel insert by opening the holder
- For cut-outs for 24-pin industrial connectors (36 x 112 mm)

Note

- For better strain relief, the cable bundle can be fixed with help of a cable tie

Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000240
ETIM 5.0/6.0 Class-Description: Cable entry

Certifications
UL File No. E349737
Fire behaviour according to UL94 V-2

Note
Individual hole configuration on request

Material
Frame: Glass fiber reinforced polyamide
Frame seal: CR
Gel insert: PC / Gel

Protection rating
IP 66

Temperature range
-30°C to +100°C

Article number	Article designation / size	Max. number of executions	Number of cables x cable Ø	Pieces / PU
SKINTOP® CUBE MULTI				
52220001	SKINTOP® CUBE FRAME 24			1
SKINTOP® CUBE MULTI Gel-insert				
52220050	SKINTOP® CUBE MULTI Version 1	21	9 x 3-6 mm; 9 x 6-9 mm; 2 x 9-13 mm; 1 x 13-16 mm	1
52220053	SKINTOP® CUBE MULTI Version 2	23	23 x 5-8 mm	1
SKINTOP® CUBE MULTI Gel-insert incl. frame				
52220056	SKINTOP® CUBE MULTI Version 1 incl. frame	21	9 x 3-6 mm; 9 x 6-9 mm; 2 x 9-13 mm; 1 x 13-16 mm	1
52220057	SKINTOP® CUBE MULTI Version 2 incl. frame	23	23 x 5-8 mm	1

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Similar products

- SKINTOP® CUBE
- SKINTOP® MULTI

Accessories

- SKINTOP® DIX-DV refer to page 715





SKINTOP® BRUSH ADD-ON 24



Info

- EMC Kit with brush technology suitable for the SKINTOP® multi cable bushing systems for the 24 pin cut-outs

Benefits

- Faster, easier screen contact
- Optimum EMC protection
- Quicker installation and EMC contacting compared with other systems
- Maximum assembly freedom during adjustment
- Usable with different cable diameters at the same time

Product features

- Low-resistance screen contact
- Visible, large-scale screen contact

Included

- Brush frame
- Spacers
- Mounting material

Technical data



Material

Frame: Aluminium
EMC brush: brass



Temperature range

-30°C to +110°C

Application range

- For the EMC screen contacting of cables when using the SKINTOP® multi-cable entry systems
- For EMC-compliant earthing of the copper braiding
- Control cabinet manufacturing
- Automation systems

Article number	Dimensions overall	Executions range	Borehole	Pieces / PU
SKINTOP® BRUSH ADD-ON 24				
52220089	40x120 mm	47.0 - 120.0	4.2	1

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