



ecobus power

5G2.5mm²

**Boxes placed wherever you want...
and displaced whenever you need!**



Connecting box SBox, No. 49705P/L..

- Direct connection of loads at any point of the cable.
- Flat cable connected by means of pointed screws, without the cable insulation having to be stripped.
- Connection of one to three round cables up to 3x2.5mm² with connectors.
- For branching flat cable.

Connecting box 5x2.5mm² / 3x2.5mm², No. 49715P / No. 49713P/L

- Direct connection of loads at any point of the cable.
- Flat cable connected by means of pointed screws, without the cable insulation having to be stripped.
- Connection of one round cable up to 5x2.5mm² resp. 3x2.5mm² with connector
- For branching flat cable.
- For rational installations it is recommended to use an electric screwdriver (Please observe the tightening torques!)

Connecting box 5x2.5mm², No. 49701P

- Direct connection of loads at any point of the cable.
- Flat cable connected by means of pointed screws, without the cable insulation having to be stripped.
- Connection of one round cable up to 5x2.5mm², by means of screw terminals.
- For supply and branching of flat cable.

Where are these flat cables used?

- in offices
- in supermarkets and shopping centres
- in museums and exhibitions
- for the lighting of platforms on railway stations and car parks
- for light industry
- for temporary lighting installations on sites

Flat cable enables installations to be completed easily with further connections.

ecobus power 5G2.5mm²

Flat cable 5G2.5mm²

5.2.20

- compact flat cable with 5 leads
- 3 different phases (L1, L2 and L3) within the same cable
- can be inserted into a mounting rail DIN 35
- asymmetric flat cable to avoid reverse polarity



Flat cable of PVC
3L+N+PE



Flat cable halogen-free
3L+N+PE

No.

	49845	113 383 804	49846	113 383 904
with black strips	49845/SM	113 383 814	49846/SM	113 383 954

Technical data

	PVC	Polyethylene Compound
Sheath	light green ¹	light green ²
Colour of the sheath	24x6mm	24x6mm
Dimensions	259g/m	247g/m
Weight	0.778kWh/m	0.671kWh/m
Fire load	5x2.5mm ²	5x2.5mm ²
No. of leads x cross-section	tinned, highly flexible	tinned, highly flexible
Copper conductors	PVC	Flame retardant, vulcanized and halogen-free Polyethylene Compound
Insulation of the leads	grey, black, brown, blue, green/yellow	grey, black, brown, blue, green/yellow
Colour of the leads	4kV, 50Hz	4kV, 50Hz
Test voltage	0.6/1kV	0.6/1kV
Rated voltage	7.98Ω/km	7.98Ω/km
DC-resistance	500m/1000m	500m/1000m
Packing unit		

Accessories

see page

see page

Connecting box	49701P	5.2.21	49701P	5.2.21
Connecting box	49901	5.2.21	49901	5.2.21
Connecting box	49703P	5.2.22	49703P	5.2.22
Branching box, 3-pole	49713P/L1, L2, L3	5.2.23	49713P/L1, L2, L3	5.2.23
Branching box, 5-pole	49715P	5.2.23	49715P	5.2.23
Connecting box SBox	49705P/L1, L2, L3	5.2.24	49705P/L1, L2, L3	5.2.24
	49706P/L1, L2, L3	5.2.24	49706P/L1, L2, L3	5.2.24
	49707P/L1, L2, L3	5.2.25	49707P/L1, L2, L3	5.2.25
	49708P/L1, L2, L3	5.2.25	49708P/L1, L2, L3	5.2.25
Cable end piece	49734	5.2.26	49734	5.2.26
Clamp	49731	5.2.26	49731	5.2.26
Cable fastening clamp	49733, 49733A	5.2.26	49733, 49733A	5.2.26
Cable stripping tool	49736	5.2.26	49736	5.2.26
Shears	49930	5.2.26	49930	5.2.26
Insulating tape	49960	5.2.26	49960	5.2.26

¹ other colours on request (e.g. red, white, black)

² other colours on request (e.g. red, white, black)

ecobus power 5G2.5mm²

Connecting box with screw-type connection to flat cables No. 49845 and 49846

- wide field of application
- reverse polarity protection
- longitudinal connection



Connecting box 5x2.5mm²
for supply and branching
no need to strip the insulation



Connecting box 5x2.5mm²
for the connection of 2 cables
or supply at the end of the cable

No.

49701P

150 776 037

49901

150 708 037

Technical data

Weight	60g	87g
Dimensions LxWxH	58x41x39mm	95x40x27mm
Fire load	0.33kWh	0.33kWh
Plastic parts	light grey / transparent, halogen-free	halogen-free
Metal parts	corrosion-resistant	corrosion-resistant
No. of leads x cross-section	5x2.5 mm ²	for 1 round cable up to 5x2.5mm ² or 1 flat cable 5x2.5mm ²
Connecting capacity	Ø 3.75mm	
Pointed screws	tightening torque 0.7Nm, Phillips-head screwdriver No. 1	
Clamping screws	tightening torque 0.7Nm, Phillips-head screwdriver No. 1	tightening torque 0.7Nm, Phillips-head screwdriver No. 1
Cross-section	2.5mm ²	
Rated voltage	690V	500V
Max. rated current	16A	16A
Packing unit	50 pce.	25 pce.
Degree of protection	IP20	IP20

ecobus power 5G2.5mm²

Connecting box, flat execution to flat cables No. 49845 and 49846

- low profile
- reverse polarity protection
- longitudinal connection

5.2.22



Connecting box for supply and branching, no need to strip the insulation, flat execution
3P+N+PE

No.

49703P

150 701 017

Technical data

Weight	72g
Dimensions LxWxH	96x60x23mm
Fire load	0.38kWh
Plastic parts	light grey / transparent, halogen-free
Metal parts	corrosion-resistant
Connecting capacity	Ø 6-13mm
Nominal cross-section	for flexible round cable of PVC up to 5x1.5mm ² with end sleeves for strands or rigid round cables up to 5x2.5mm ²
Pointed screws	tightening torque 0.7Nm, Phillips-head screwdriver No. 1
Spring clamp terminals	2 connections per pole
Rated voltage	690V
Max. rated current	16A
Packing unit	50 pce.
Degree of protection	IP20

ecobus power 5G2.5mm²

Branching boxes with socket 3- or 5-pole to flat cables No. 49845 and 49846

- pluggable power branching
- reverse polarity protection
- lateral connection



Branching box with 3-pole socket,
no need to strip the insulation



Branching box with 5-pole socket,
no need to strip the insulation

No.

No.			
		49713P	150 710 337
Connection L1	49713P/L1	150 710 137	
Connection L2	49713P/L2	150 710 237	
Connection L3	49713P/L3	150 710 117	

Technical data

Weight	40g	65g
Dimensions LxWxH	34.5x57.5x25.7mm	54x57.5x25.7mm
Fire load	0.18kWh	0.27kWh
Colour of box, connection L1	light grey	
Colour of box, connection L2	dark grey	
Colour of box, connection L3	black	
Socket	type GST18i3, code 1	type GST18i5, code 1
Plastic parts	coloured / transparent, halogen-free	coloured / transparent, halogen-free
Metal parts	corrosion-resistant	corrosion-resistant
Pointed screws	tightening torque 0.7Nm, Phillips-head screwdriver No. 1	tightening torque 0.7Nm, Phillips-head screwdriver No. 1
Rated voltage	250V	250V/400V
Max. rated current	16A	16A
Packing unit	50 pce.	50 pce.
Degree of protection	IP20	IP20

Accessories

see page

see page

Connector	49743M	5.2.52	49745M	5.2.54
Socket	49743F	5.2.52	49743F	5.2.54
Pre-wired connectors	49743/..M, ..M25	5.2.52	49745/..M, ..M25	5.2.54
Extensions	49743/..MF, ..MF25	5.2.53	49745/..MF, ..MF25	5.2.55
Locking	49750	5.2.53	49750	5.2.55

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Connecting box SBox for lighting installations with I/O switch or impulse switch

5.2.24

- short mounting procedures
- pluggable branching
- wiring diagram on the product data sheet



Connecting box with I/O switch



Connecting box with impulse switch

No.

No.	Product Code	Part No.	Product Code	Part No.
Connection L1	49705P/L1	150 711 317	49706P/L1	150 712 317
Connection L2	49705P/L2	150 711 337	49706P/L2	150 712 337
Connection L3	49705P/L3	150 711 357	49706P/L3	150 712 357

Technical data

Technical data	49705P	49706P
Weight	94g	110g
Dimensions LxWxH	74x67x37mm	74x67x37mm
Fire load	0.51kWh	0.51kWh
Colour of box, connection L1	light grey	light grey
Colour of box, connection L2	dark grey	dark grey
Colour of box, connection L3	black	black
Socket for switch	type GST 18i3, code 4 (brown)	type GST 18i3, code 4 (brown)
Socket for lamps	type GST 18i3, code 1	type GST 18i3, code 1
Plastic parts	halogen-free	halogen-free
Metal parts	corrosion-resistant	corrosion-resistant
Pointed screws	tightening torque 0.7Nm, Phillips-head screwdriver No. 1	tightening torque 0.7Nm, Phillips-head screwdriver No. 1
Rated voltage	250V	250V
Max. rated current	16A	16A
Packing unit	50 pce.	50 pce.
Degree of protection	IP20	IP20

Accessories

Accessories	Product Code	Page	Product Code	Page
Connector for lamps	49743M	5.2.52	49743M	5.2.52
Pre-wired connectors for lamps	49743/..M 49743/..M25	5.2.52	49743/..M 49743/..M25	5.2.52
Extensions	49743/..MF, ..MF25	5.2.53	49743/..MF, ..MF25	5.2.53
Connector for switch	49742M	5.2.53	49742M	5.2.53
Pre-wired connectors for switch	49742/..M, ..M25	5.2.53	49742/..M, ..M25	5.2.53
Baseplate with fixing brackets	49738P	5.2.27	49738P	5.2.27

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Connecting box SBox for lighting installations with changeover contact or series connection



Connecting box with changeover contact



Connecting box with series connection

No.

Connection L1	49707P/L1	150 713 317	49708P/L1	150 714 317
Connection L2	49707P/L2	150 713 337	49708P/L2	150 714 337
Connection L3	49707P/L3	150 713 357	49708P/L3	150 714 357

Technical data

Weight	120g	120g
Dimensions LxWxH	74x88x37mm	74x88x37mm
Fire load	0.54kWh	0.54kWh
Colour of box, connection L1	light grey	light grey
Colour of box, connection L2	dark grey	dark grey
Colour of box, connection L3	black	black
Socket for switch	type GST 18i3, code 4 (brown)	type GST 18i3, code 4 (brown)
Socket for lamps	type GST 18i3, code 1	type GST 18i3, code 1
Plastic parts	halogen-free	halogen-free
Metal parts	corrosion-resistant	corrosion-resistant
Pointed screws	tightening torque 0.7Nm, Phillips-head screwdriver No. 1	tightening torque 0.7Nm, Phillips-head screwdriver No. 1
Rated voltage	250V	250V
Max. rated current	16A	16A
Packing unit	50 pce.	50 pce.
Degree of protection	IP20	IP20

Accessories

see page

see page

Connector for lamps	49743M	5.2.52	49743M	5.2.52
Pre-wired connectors for lamps	49743/..M, ..M25	5.2.52	49743/..M, ..M25	5.2.52
Extensions	49743/..MF, ..MF25	5.2.53	49743/..MF, ..MF25	5.2.53
Connector for switch	49742M	5.2.53	49742M	5.2.53
Pre-wired connectors for switch	49742/..M, ..M25	5.2.53	49742/..M, ..M25	5.2.53
Baseplate with fixing brackets	49738P	5.2.27	49738P	5.2.27

Accessories

Cable end piece

5.2.26



49734
120 660 017

Of polycarbonate, halogen-free, transparent
Dimensions: 43x32x9mm
Weight: 7g
Fire load: 0.06kWh
Packing unit: 10 pce.

Note:
Before mounting the cable, first strip it at both ends for a distance of 19mm so that the specified creepage distance will be observed.

Clamp for screw fixing



49731
120 008 107

Of polyamide 66, halogen-free, grey
Dimensions: 52x10x10mm
Weight: 2g
Fire load: 0.02kWh
Packing unit: 100 pce.

Cable fastening clamp



49733
150 900 117

49733A
150 900 107

No. 49733 for screwing on.
No. 49733A for sticking on.
Of polyamide 66, halogen-free, grey
Dimensions: 40x15x15mm
Weight: 3.7g
Fire load: 0.03kWh
Packing unit: 100 pce.

Cable stripping tool



49736
983 050 427

This tool offers the advantage of stripping neatly and easily the cable without damaging the insulation of the conductors.
Packing unit: 1 pce.

Note:
The cable has to be stripped at both ends for a distance of 19mm so that the conductors can be inserted properly in the end pieces.

Shears



49930
983 045 007

For cutting neatly and easily every type of flat cables (max. width 32mm).
With sliding anvil. Teflon coated blades.
Packing unit: 1 pce.

Insulating tape



49960
171 013 004

To reinsulate correctly the holes due to pointed screws or cutting teeth when removing or displacing connections.
Insulating tape trademark "Scotch 2210", synthetic caoutchouc-based product, PVC coated black.
Weatherproof, self-fusing.
Dimensions: 102x100x2.3mm
Dielectric strength: max. 23kV/mm
Temperature: max. +70°C
Packing unit: 10 pce.

Accessories

Baseplate with fixing brackets



49738P
150 901 027

Suitable for connecting boxes for lighting installations ecobus power 5G2.5mm².
light green
To fix the boxes on a surface.
Packing unit: 10 pce.

Baseplate with fixing brackets



49738
150 901 017

Suitable for connecting boxes for lighting installations ecobus combi 5G2.5+2x1.5mm².
violet
To fix the boxes on a surface.
Packing unit: 10 pce.