



# ecobus data

## 2x1.5mm<sup>2</sup>

**An exceptional bus flat cable which allows to perform various functions in the field of building automation.**



Connecting box with micro-terminal, No. 49722.

- 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 2x0.5mm<sup>2</sup>, by means of micro-terminals.
- For supply or branching of flat cable.

Branching box with socket, No. 49720.

- 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 2x0.5mm<sup>2</sup>, by means of connectors.
- For branching flat cable.

### **Where are these flat cables used?**

- In the field of building automation, to connect intelligent devices such as actuators or sensors via bus.
- Specific use with KNX, DALI, LON etc.

# ecobus data 2x1.5mm<sup>2</sup>

## Flat cable bus 2x1.5mm<sup>2</sup>

5.2.30

- suitable for different bus systems
- with 2 parallel leads
- shield of aluminium
- asymmetric flat cable to avoid reverse polarity



Flat cable bus of PVC



Flat cable bus halogen-free

No.

No.	49949	113 397 309	49948	113 397 307
with black strips	<b>49949/SM</b>	113 397 300		

### Technical data

	PVC	Polyethylene Compound
Sheath	dark grey <sup>1</sup>	dark grey <sup>2</sup>
Colour of the sheath	11x6mm	11x6mm
Dimensions	90g/m	86g/m
Weight	0.48kWh/m	0.44kWh/m
Fire load	2x1.5mm <sup>2</sup>	2x1.5mm <sup>2</sup>
No. of leads x cross-section	tinned	tinned
Copper conductors	Polyethylene	Polyethylene
Insulation of the leads	neutral	neutral
Colour of the leads	double shield of aluminium	double shield of aluminium
Shield	4kV, 50Hz	4kV, 50Hz
Test voltage	50V	50V
Rated voltage	3A	3A
Max. rated current	13.7Ω/km	13.7Ω/km
DC-resistance	70pF/m	70pF/m
Capacitance	nom. 1.2dB/100m	nom. 1.2dB/100m
Attenuation at 1Hz	nom. 75Ω	nom. 75Ω
Charact. impedance at 1MHz	500m/1000m	500m/1000m
Packing unit		

### Accessories

see page

see page

	49720, 49721, 49727	5.2.31	49720, 49721, 49727	5.2.31
Branching box	49722	5.2.32	49722	5.2.32
Box with micro-terminal	49732	5.2.33	49732	5.2.33
Cable end piece	49693	5.2.33	49693	5.2.33
Clamp	49930	5.2.33	49930	5.2.33
Shears	49960	5.2.33	49960	5.2.33
Insulating tape				

<sup>1</sup> other colours on request (e.g. red, white, black)

<sup>2</sup> other colours on request (e.g. red, white, black)

# ecobus data 2x1.5mm<sup>2</sup>

Branching boxes with socket 2- or 3-pole to flat cables No. 49949 and 49948

- pluggable branching
- coded sockets corresponding to different bus systems
- reverse polarity protection
- longitudinal connection
- the third pole may not be contacted



Branching box with socket 2-pole, for KNX



Branching box with socket 3-pole, for bus



Branching box with socket 3-pole, for bus

5.2.31

No.

**49720**

150 706 137

**49721**

150 706 237

**49727**

## Technical data

Weight	12g	12g	12g
Dimensions LxWxH	47x18x23.5mm	47x18x23.5mm	47x18x23.5mm
Fire load	0.08kWh	0.08kWh	0.08kWh
Socket	type BST14i2, code KNX	type BST14i3, code 3	code Woertz
Plastic parts	black / green / transparent, halogen-free	black / transparent, halogen-free	black / grey / transparent, halogen-free
Metal parts	corrosion-resistant	corrosion-resistant	corrosion-resistant
Pointed screws	tightening torque 1.0Nm, screwdriver No. 3	tightening torque 1.0Nm, screwdriver No. 3	tightening torque 1.0Nm, screwdriver No. 3
Rated voltage	50V	50V	50V
Max. rated current	3A	3A	3A
Packing unit	50 pce.	50 pce.	50 pce.
Degree of protection	IP20	IP20	IP20

## Accessories

see page

see page

see page

Connector	49740M	5.2.50	49741M	5.2.50	49747M	5.2.51
Socket	49740F	5.2.50	49741F	5.2.50	49747F	5.2.51
Snap-in	49420M 49420F	5.2.50	-	-	49421M 49421F	5.2.51
Pre-wired connectors	49740/...M	5.2.50	49741/...M	5.2.50	49747/...M	5.2.51

## ecobus data 2x1.5mm<sup>2</sup>

Connecting box with micro-terminal to flat cables No. 49949 and 49948

5.2.32

- especially designed for connecting control units
- suitable for different bus systems
- reverse polarity protection
- longitudinal connection



Connecting box 2x0.5mm<sup>2</sup> with micro-terminal for supply and branching

No.

**49722**

150 706 337

### Technical data

Weight	14g
Dimensions LxWxH	37x18x23.5
Fire load	0.08kWh
Plastic parts	black / transparent, halogen-free
Metal parts	corrosion-resistant
Pointed screws	tightening torque 1.0Nm, screwdriver No. 3
Rated voltage	50V
Max. rated current	3A
Packing unit	50 pce.
Degree of protection	IP20

## Accessories

### Cable end piece



**49732**  
150 901 117

Of polycarbonate, halogen-free, transparent  
Dimensions: 20x14x9 mm  
Weight: 1.5g  
Fire load: 0.02kWh  
Packing unit: 10 pce.

### Clamp for screw fixing



**49693**  
120 008 607

Of polyamide 66, halogen-free, grey  
Dimensions: 31x10x8.5mm  
Weight: 1.2g  
Fire load: 0.01kWh  
Packing unit: 100 pce.

### 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.