

Woertz® 3G2.5 mm² and Woertz® 3G4 mm²



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The efficiency of this system is related to its great flexibility and extension facility, anywhere, anytime.

- Cable end piece IP68
No. 48510/03
of polycarbonate, halogen-free; silicone gel

- Clamp
No. 49693

- Branching box
No. 49695

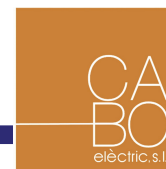
- Junction box
No. 49687

Where are these flat cables used?

- in offices where the number of computers is liable to be increased and the furniture to be displaced.
- in workshops and laboratories equipped with small-sized machines and devices. The flat cables are then laid into floor-, ceiling- or wall ducts
- in shops and show windows where the connecting points may often change
- for the installation of prefabricated houses
- in hanging ceilings for the supply of lamps.


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

Woertz 3G2.5 mm²



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flat cable 3G2.5 mm²

PVC		halogen-free	
No.	Eldas-No.	No.	Eldas-No.
 ■ 49685 ■ 49685/SM*	113 297 807	■ 49686 ■ 49686RT ■ SC49686RT ■ 49686/SM*	113 307 807
L+N+PE		* on request	

Technical data

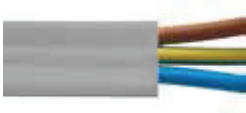
Dimensions	mm	16.5x6	16.5x6
Weight	g/m	185	185
Fire load	kWh/m	0.583	1.02
No. of leads x cross-section	mm ²	3x2.5	3x2.5

High current part

Copper conductors		tinned, highly flexible	tinned, highly flexible
Insulation of the leads		PVC	vulcanized, flame retardant, polyethylene
Colour of the leads		brown, green/yellow, blue	brown, green/yellow, blue
Cross-section	mm ²	2.5	2.5
Test voltage	kV / Hz	4 / 50	4 / 50
Rated voltage	kV	0.6/1	0.6/1
DC-resistance	Ω/km	7.98	7.98
Cu weight	kg/km	72	72

Woertz 3G4 mm²

flat cable 3G4 mm²

PVC		halogen-free	
No.	Eldas-No.	No.	Eldas-No.
		■ 49646	
L+N+PE			

Technical data

Dimensions	mm	16.5x6
Weight	g/m	224
Fire load	kWh/m	0.95
No. of leads x cross-section	mm ²	3x4

High current part

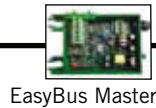
Copper conductors		tinned, highly flexible
Insulation of the leads		vulcanized, flame retardant, polyethylene
Colour of the leads		brown, green/yellow, blue
Cross-section	mm ²	3x4
Test voltage	kV / Hz	4 / 50
Rated voltage	kV	0.6/1
DC-resistance	Ω/km	5.09
Cu weight	kg/km	116

Woertz 3G2.5 mm² and Woertz 3G4 mm²

Example of application: SCHAKO EasyBus



Compatible with:
KNX
LON
BacNet
ModBus etc



EasyBus Master

Easy:

- an only cable for both control and supply
- max. cable length 1000m
- 128 participants (CHP, VAV, etc.)
- vereinfachter Anschluss

Safe:

- no faulty wiring
- no connection loss
- arbitrary topology
- easy maintenance
- low fire load

Advantageous

- installing, planning of automation processes and putting them into service have become much easier
- no sub-distribution boxes: enormous - space is gained
- compatible with standard control systems
- participants may be addressed without any tool



No. 49687

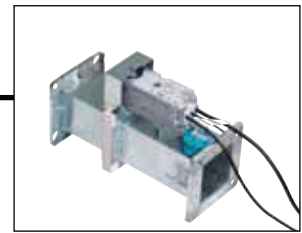
Woertz 3x2.5mm²
No. SC49686RT



No. 49695

bus + power current

Fire damper square



No. 49695

bus + power current

Fire damper circular



No. 49687



Smoke detector
RMS

No. 49695



No. 49695

bus + power current

Variable air volume box



Example of application

Field busses are used for decentralised controlling of actuators and for receiving analog and digital signals emitted by sensors.




Planning of automation processes and putting them into service have become much easier.

This connection technique also simplifies heating, ventilating and air-conditioning processes: the cabling procedures of pumps, valves or mixing valves for example can be performed quicker because an only cable ensures both power current supply and bus signal transmission.





More information under
<http://www.easybus-system.ch>

Woertz 3G2.5 mm² and Woertz 3G4 mm²

Junction box and connector to flat cable No. 49685, 49686 and 49646

Connecting box		Technical data	
No. 49687	No. Eldas 150 701 407	LxBxH mm 55x33x33	for supply and branching no need to strip the insulation
		Fire load kWh 0.24	
		Connecting capacity Ø in mm 3.75	
		Rated voltage V 250	Plastic parts: halogen-free
		Max. rated current A 16	Metal parts: corrosion-resistant
		Weight g 45	
		Packing unit pce. 10	tightening torque Nm 0.7
		Degree of protection IP20	screwdriver No. 1
Branching box		Technical data	
No. 49695	No. Eldas 150 701 457	LxBxH mm 90x30x34	for branching no need to strip the insulation
		Fire load kWh 0.36	
		Connecting capacity Ø in mm 3.75	
		Rated voltage V 250	Plastic parts: halogen-free
		Max. rated current A 16	Metal parts: corrosion-resistant
		Weight g 85	
		Packing unit pce. 10	tightening torque Nm 0.7
		Degree of protection IP20	screwdriver No. 1
<i>49695/1 prewired 1m round cable</i>			
<i>49695/2 prewired 2m round cable</i>			
<i>further lengths on request</i>			
Pre-wired connector		Technical data	
No. 49696F		LxBxH mm 260x30x34	Pre-wired connector
		Weight g 200	No. 49695
		Packing unit pce. 1	with 10 cm round cable 3G1.5 mm ² and Kupplung 3-poles, type GST 18i3 F B2 Z
<i>49696/1F prewired 1m round cable</i>			
<i>49696/2F prewired 2m round cable</i>			
<i>Pre-wired connectors see page 78</i>			
<i>further lengths on request</i>			

Accessories

End piece		Technical data	
No. 48510/03	No. Eldas 120 900 307	LxBxH mm 40x25x15	of polycarbonate, halogen-free; silicone gel
		Weight g 9.5	
		Fire load kWh n.a.	Note:
		Packing unit pce. 8	Cut neatly both ends of the cable before mounting the end pieces. No need to strip the cable.
		Degree of protection IP68	Cable end piece may only be mounted once.
Clamp for screw fixing		Technical data	
No. 49693	No. Eldas 120 008 607	LxBxH mm 31x10x8.5	of polyamide 6.6, halogen-free
		Weight g 0.95	
		Fire load kWh 0.01	
		Packing unit pce. 100	
Shears		Technical data	
No. 49930	No. Eldas 983 045 007	Weight g 223	For cutting neatly and easily every type of flat cables
		Packing unit pce. 1	
			With sliding anvil. Teflon coated blades.
Insulating tape		Technical data	
No. 49960	No. Eldas 171 013 004	Dimension mm 102x100x2.3	To reinsulate correctly the holes due to pointed screws or cutting teeth when removing or displacing connections.
		Weight g 33	
		Dielectric strength max. kV/mm 23	
		Temperature max. °C +70	
		Packing unit pce. 10	Weatherproof, self-fusing