

# Woertz power IP 5G2.5 mm<sup>2</sup>



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Every connection you need where you need it...  
Hard conditions don't affect products with a high IP protection degree...

- Cable end piece IP68  
No. 48510/08

- Quick junction box IP68  
No. 48385/L/68



- Quick junction box IP68 with fastening possibility for secure mounting  
No. 48385/L/68/S

## Where are these flat cables used?

- In installations related to stringent requirements. Its high protection degree allows this system to be used in tunnels, where many connections have to be made. Thanks to the rapid installation substantial time savings will be performed.
- Flexibility and robustness make the system ideal for building constructions, public works and open cast works in both construction and exploitation phases.
- Three-phase loads may be supplied through this system. The lamps are distributed over the different pole conductors and individually switched.
- In industrial washing plants, car wash sites or cleaning installations for tunnels or underground parking where powerful jets of water are used.
- IP66/68 allows not only the use in wet but also in dusty environment. The system therefore suits workshops, joineries or industrial plants.
- No need to seal the connecting boxes or to sever the cable, new potential sources of errors are thus avoided.

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

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flat cable IP 5G2.5 mm<sup>2</sup>



3 L+N+PE

## halogen-free

No.	Eldas-No.
■ 49863/FRNC	150 710 317

## Technical data

Dimension	mm	24x6
Weight	g/m	247
Fire load	kWh/m	0.671
No. of leads x cross-section	mm <sup>2</sup>	5x2.5

## High current part

Copper conductors		tinned, highly flexible
Insulation of the leads		vulcanized and flame retardant polyethylene
Colour of the leads		grey, black, brown, blue, green/yellow
Cross-section	mm <sup>2</sup>	2.5
Test voltage	kV / Hz	4 / 50
Rated voltage	kV	0.6/1
DC-resistance	Ω/km	7.98
Max. operating temperature		-15 °C bis +90 °C
Min. installation temperature		+5 °C
Bending radius		min. 6x cable thickness
Cu weight	kg/km	120

Quick connection system IP68







## Flat cable box for IP68 applications

Supply and pre-wired connector

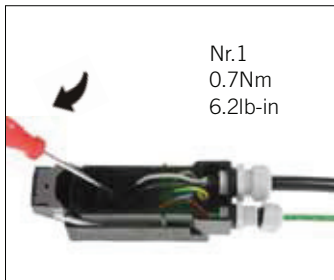


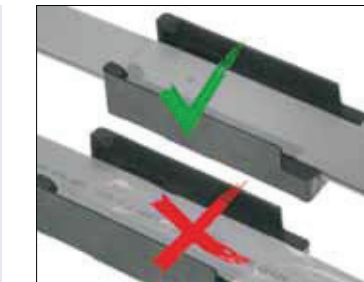


Box	Technical data	
<b>No.</b>	Eldas-No.	LxWxH without cable gland mm
<b>48385/L/68</b>	150 710 407	155x50x55
		LxWxH with fastening facility mm
		155x75x55
		Fire load kWh
		0.74
		Fire behaviour
		UL 94-V0
		Connecting capacity mm
		3.0x3.5
		Cross-section mm <sup>2</sup>
		2.5
		Cross-section with Litzenhülse mm <sup>2</sup>
		4
		Rated voltage V/Hz
		400/50
		Test voltage kV/Hz
		4 / 50
		Test current power max. A
		24
		Packing unit pce.
		1
<b>Fastening:</b>		Degree of protection
<b>48385/L/68/S</b>	150 710 417	IP65/IP68 (2m, 30min)



## Accessories

<b>End piece without stripping</b> <b>No.</b> Eldas-No. <b>48510/05</b> 120 900 617 		<b>Technical data</b> LxWxH mm 40x36x16 Weight g 14.3 Fire load kWh k.A. Packing unit pce. 5 Degree of protection IP68		of polycarbonate, halogen-free; silicone gel  Note: Cut neatly both ends of the cable before mounting the end pieces. No need to strip the cable. Cable end piece may only be mounted once.
<b>Cable fastening clamp</b> <b>No.</b> Eldas-No. <b>49731</b> 120 008 107 		<b>Technical data</b> LxWxH mm 52x10x10 Weight g 2 Fire load kWh 0.02 Packing unit pce. 100		for cable fastening  of polyamide 6.6, halogen-free
<b>Clamp for screwing on</b> <b>No.</b> Eldas-No. <b>49733</b> 150 900 117 <b>49733A</b> 150 900 107 		<b>Technical data</b> LxWxH mm 40x15x15 Weight g 3.7 Fire load kWh 0.03 Packing unit pce. 100		<b>49733</b> for screwing on <b>49733A</b> for sticking on  of polyamide 6.6, halogen-free
<b>Shears</b> <b>No.</b> Eldas-No. <b>49930</b> 983 045 007 		<b>Technical data</b> Weight g 223 Packing unit pce. 1		For cutting neatly and easily every type of flat cables (max. width 32mm).  With sliding anvil. Teflon coated blades.
<b>Insulating tape</b> <b>No.</b> Eldas-No. <b>49960</b> 171 013 004 		<b>Technical data</b> LxWxH mm 102x100x2.3 Weight g 33 Dielectric strength max. kV/mm 23 Temperature max. °C 70 Packing unit pce. 10		To reinsulate correctly the holes due to pointed screws or cutting teeth when removing or displacing connections.  Weatherproof, self-fusing.
<b>Cable glands</b> <b>No.</b> Eldas-No. <b>48560/03/M20</b> 121 682 607 <b>48560/05/M20</b> 121 682 617 		<b>Technical data</b> Diameter of cables mm 8.0-11.0 11.0-15.0 Packing unit pce. 5		of polyamide, grey M20x1.5  delivered with O-ring seal of NBR  halogen-free

(can be used for supply and branching!)

 <p>Nr.1 0.7Nm 6.2lb-in</p> <p>1</p>	<p>Open the cover. Put the cable gland on the round cable. Cut the round cable to the desired length and remove the sheath. Introduce the leads after having stripped off the insulation and tighten the clamping screws. Check if the O-ring seal is at the right position and tighten the cable gland.</p>	 <p>2</p>	<p>Mount the cover again.</p>
 <p>3</p>	<p>Position the base of the junction box and screw it on to its support if required.</p>	 <p>4</p>	<p>Position the asymmetric flange on the cable (right position is shown by the groove in one narrow side of the cable sheath). If the flange on the cable is not in the right position, it cannot be inserted into the base. The cable has to be clean, undamaged, free from grease and oil residue.</p>
 <p>5</p>	<p>Snap together the upper part and the base.</p>	 <p>6</p>	<p>Fold back the lever. It must audibly click into place. The box is thus connected and locked. It is also possible to secure the lever by using the supplied screw. The cover may be marked if necessary.</p>

## Possibility of pre-wiring:

### Service to our customers.

On request the connecting boxes may be provided in advance with round outgoing cables.



The overcurrent protection devices will be chosen in relation to the length of installed cables so that their response time conform to specifications in case of malfunction.



The box has only to be connected to the cable once. If the box has to be displaced, the protection degree of the system will no more be fulfilled. However the box may be used as IP40 box. It is absolutely necessary to reinsulate correctly the holes due to the cutting teeth by means of the insulating tape, in order to ensure the IP protection degree. We do not assume liability for defects occurring through improper operation!



A high IP protection degree requires the highest demands on the installation material. The Woertz System guarantee only applies to original products finished in our workshops (such as flat cables, boxes and accessories) or provided by appropriate, controlled suppliers.