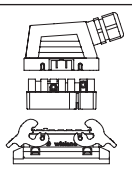
75.015.5153.1/0 (black/light gray) FCS 4,7 SI BU
75.015.0151.0/2 (black) FCS 4,0 7 ST SA SO
75.015.0153.0/2 (light gray) FCS 4,0 7 ST SA SO

podis CON

Flat cable outlet plug/plug

EN Installation instructions



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Updated: 02/2008 (Rev. E)

A) Important information - please read carefully

This instruction leaflet describes the podis CON flat cable outlet and its connection to the podis CON flat cable as well as the installation of the plug. Please observe without fail the warnings and directions.

CAUTION

- Electric installations, placing devices into operation and maintenance tasks may only be carried out by qualified electricians with relevant training in accident prevention and while adhering to applicable regulations.
- Protective measures and mechanisms must correspond to applicable regulations.
- Damaged products may neither be installed nor operated.
- Never connect or disconnect the devices under load!
- Before opening the device, or performing installation or maintenance tasks, it must be removed from the mains and the load.

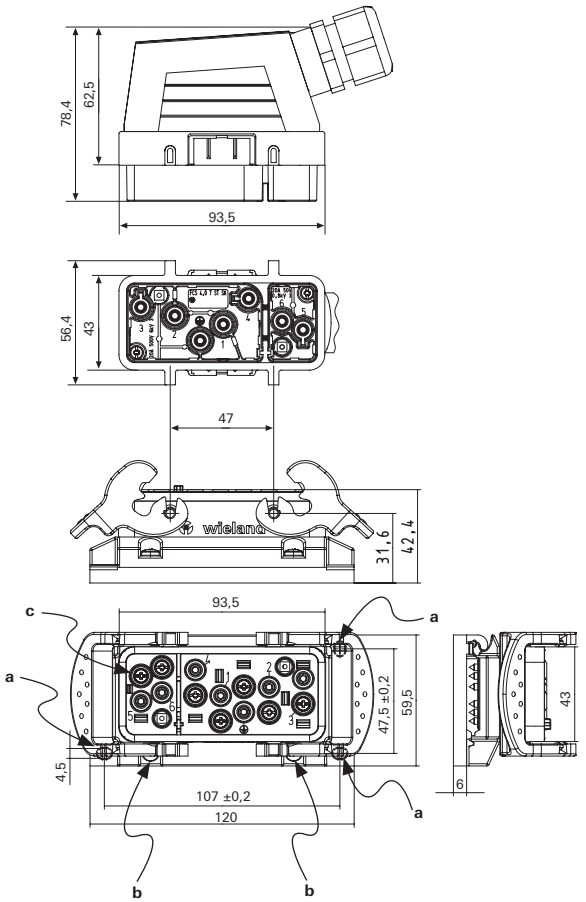
B) Function description

End devices pluggable to the podis energy bus are connected via the pluggable flat cable outlet on which the plug is inserted. The electrical contact to the flat cable is made by means of push-through contacts. In this way main and auxiliary energy can be accessed from the energy bus.

CAUTION

In order to ensure protection rating IP65 (UL type rating 1), the plug must be inserted and the cable glands must be pulled up with the corresponding torque, or the protective lid (see accessories) must be installed!

C) Installation dimensions (details in mm)



Legend: a–fastening hole; b–screws of housing base; c–contact screws

D) Cables

Permitted flat cables:

EVA	7×4 mm² (00.709.0504.1)	VDE 7723
XLPE	7×4 mm² (00.729.0504.1)	VDE 8090; UL 1277 TC-ER
PVC	7×2,5 mm² (00.705.0503.3	VDE 7654

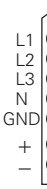
For use in USA and Canada, attention should be paid to the following UL and CSA cable type restrictions.

Permitted cable types for use on the load side of the device:

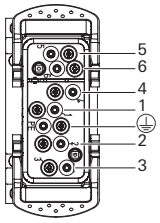
Recognized UL AWM Styles: 2587, 2550, or 21098.
CSA AWM I A/BII A/B, 12 AWG.

Use copper conductors only.

Flat cable conductor assignment



Cond.	PVC (gray, 7×2,5 mm²)	EVA (black, 7×4 mm²) XLPE (black, 7×4 mm²)	
L1	brown	1	(black)
L2	black	2	(black)
L3	gray	3	(black)
N	blue	4	(black)
GND	green/yellow	GND	(green/yellow)
+	red	5	(black)
–	white	6	(black)



E) Installation

NOTE

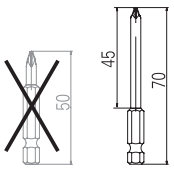
- The underground must be flat, level and support the given load.
- Only the provided drill holes are to be used for fastening to the underground. The use of additional drill holes at other points is not permissible!

1. Fasten the module by means of two fastening screws M4 securely to the underground (see (a) in drawing C. Installation dimensions / Plug). Use the shims.
2. Unscrew the screws (see (b) in drawing C. Installation dimensions / Plug) in the upper rim to lay the flat cable in the upper part of the housing. Fit the bottom section of the housing and lay the appropriately coded flat cable. Afterwards tilt back the podis CON upper part of the housing again and do up the two screws [b] tight (**torque 1.2 Nm / 10.6 lb·in**).
3. Screw all the contact screws (also those that are not needed) (see (C) in drawing C. Installation dimensions / Plug) into the flat cable (**torque 1.0 Nm / 8.8 lb·in**).
4. Make up the plug (**torque 1.2 Nm / 10.6 lb·in**; insulation stripping length **10 mm**).
5. Install the contact insert into the plug housing (**torque 0.5 Nm / 4.4 lb·in**).
6. Install the podis CON plug part on to the flat cable outlet.
7. Close the two locking latches in that they are pressed upwards until they catch.

CAUTION

How to fit the contact screws penetrating through the cable:

- Use either a pneumatic or electric screwdriver.
- Use a Phillips No. 1 screw blade with shaft at least 45 mm long (see drawing to the right).
- **Maximum torque 1.0 Nm (8.8 lb·in)!**
- All contact screws must be screwed completely into the cable!
- If not broken, contact screws may be screwed out and replaced with new ones once only. In this case, use original screws from Wieland exclusively (see orering information)!
- Devices with broken screws must be removed completely. The position they occupied must not be used again. Instead, here the flat cable has to be sealed with the podis sealing sleeve (see ordering information).
- Do not use broken or damaged screws!



F) Disassembly

For disassembly of the outlets, proceed in reverse order as described in D Installation. In doing so, take note of the associated safety information.
Note especially that working under load is specifically prohibited.

G) Technical data

Flat cable outlet		
Rated current	IEC	20 A (up to 50 °C ambient temperature; see p. 968 Table 3 in the AT catalog and note derating)
	UL	16 A (up to 40°C ambient temperature)
Rated cross section		4 mm² / 12 AWG
Connection type		Push through contacts
Rated voltage		
– main circuit (L1, L2, L3, N, GND)	VDE	500 V/6 kV/3
	UL	600 V
– auxiliary circuit (conductors +,–)	VDE	50 V/0.8 kV/3
	UL	600 V
General data		
Dimensions		see section C)
Operating ambient temperature	IEC	-15 °C…+50 °C
	UL	+40 °C
Overvoltage category		3
Protection rating (in locked condition)		IP65 acc. to EN 60529
	UL	type rating 1
Plug		
Rated current	IEC	20 A (up to 50 °C ambient temperature)
	UL	16 A (up to 40°C ambient temperature)
Connection type		Screw terminals
Rated cross section		4 mm²
Wire range		
– solid		1,5 – 6,0 mm²
– stranded		1,5 – 4,0 mm²
Conductor size AWG solid/stranded		14 – 10
Stripping length		10 mm

Rated voltage		
– main circuit (L1, L2, L3, N, GND)	VDE	500 V/6 kV/3
	UL	600 V
– auxiliary circuit (conductors +,–)	VDE	50 V/0.8 kV/3
	UL	600 V
General data		
Dimensions		see section C)
Operating ambient temperature	IEC	-15 °C…+50 °C
	UL	+40 °C
Overvoltage category		3
Protection rating (in locked condition)		IP65 acc. to EN 60529
	UL	type rating 1
Zulassungen		c UL us

H) Ordering information

Accessories for flat cable outlet	
• Protective cover	07.409.7256.0
Accessories for plug	
• Cable gland M25 x 1,5 black, for round cable with	
– cable diameter 9 - 16 mm	Z5.507.1453.1
– cable diameter 13 - 18 mm	Z5.507.1553.1
Tools	
• Screwdriver bit PH1	06.502.5200.0
Spare / repair parts	
• Sealing sleeve	Z1.005.6553.1
• Contact screws	Upon request

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