

AC TRUNK CABLE SYSTEM

GENERAL SPECIFICATIONS OUTDOOR MODELS

Product Description

The AC-TRUNK cable is a 4 mm² cross section cable, homologated for outdoor applications, with preinstalled connectors for Power-One MICRO inverters.

Robust

- Designed to withstand even very intense operating conditions, they guarantee maximum mechanical, chemical and UV resistance.
- Once connected to the MICRO inverters or terminated using the specific water-tight caps, AC-TRUNK cable connectors guarantee IP68 environmental protection grade.

Flexible

- It is possible to select up to three models of AC-TRUNK cable, with different distances between one connector and the next, depending on the module type and their method of installation (horizontal or vertical).
- Thanks to the broad temperature range (-40°C...+90°C in fixed installations) and the high mechanical strength, there are no particular restrictions on the type of installation, thus guaranteeing high installation flexibility.

Simple

- Power-One MICRO inverters are connected directly to AC-TRUNK cable connectors without using special tools.
- The AC accessories complete the range, making it possible to create extension cables, terminations and connections to other cables, simplifying the installation of small and large systems alike.

Technical Specifications

TECHNICAL SPECIFICATIONS OF THE CABLE

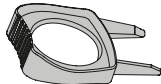
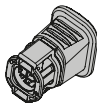
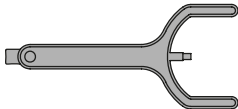
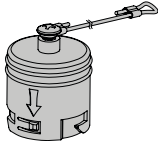
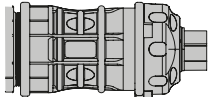
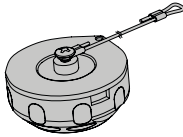
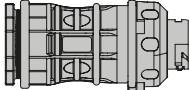
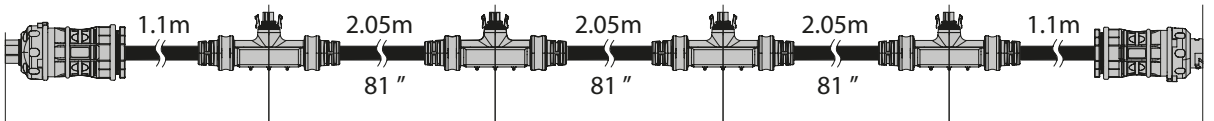
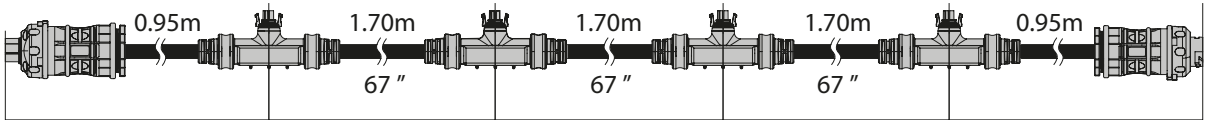
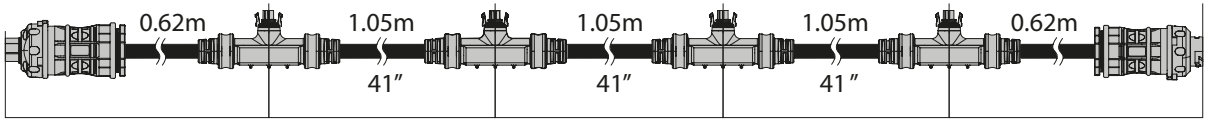
Number of Conductors and cross section	3G4 mm ²
Minimum radius of curvature for fixed installation	48 mm
Operating temperature (mobile installation)	-40°C...+90°C
Rated Voltage U ₀ /U	450/750 V/V
Specific resistance of the insulation	>10 GOhm x cm
Test voltage	3000 V
External sheathing	Black PUR
Cable type	H07BQ-F

SPECIFICATIONS OF THE CONNECTORS

Operating temperature	-40°C...+90°C
Protection class	IP68
Connector rated current for MICRO inverter connection	5 A
Connector rated voltage for MICRO inverter connection	300V
Extension connector rated current	25 A
Extension connector rated voltage	660 V

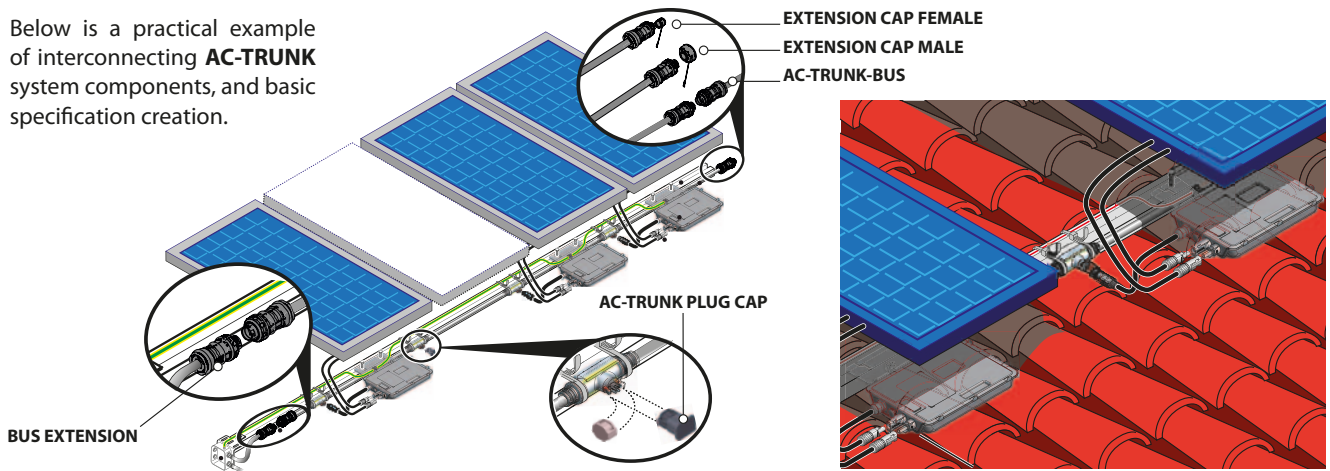
COMPONENT CODES

CODE	DESCRIPTION
AC-TRUNK-BUS-1.05m-4plus-3x4mm²	AC cable 3 4 mm ² conductors; distance between connectors 1.05m/41"
	
AC-TRUNK-BUS-1.70m-4plus-3x4mm²	AC cable 3 4 mm ² conductors; distance between connectors 1.70m/67"
	
AC-TRUNK-BUS-2.05m-4plus-3x4mm²	AC cable 3 4 mm ² conductors; distance between connectors 2.05m/81"
	
AC-TRUNK-BUS EXTENSION-male-3pins	Male connector for AC bus cable extension
	
AC-TRUNK-EXTENSION CAP-male-3pins	Sealing cap for AC-TRUNK-BUS EXTENSION-male-3pin connectors
	
AC-TRUNK-BUS EXTENSION CAP-female-3pins	Female connector for AC bus cable extension
	
AC-TRUNK-EXTENSION CAP-female-3pins	Sealing cap for AC-TRUNK-BUS EXTENSION-female-3pins
	
AC-BUS-EXTENSION UNLOCK TOOL (included with AC-TRUNK-BUS EXTENSION-female-3pins)	Tool for unlocking AC cable EXTENSION connectors
	
AC-TRUNK PLUG CAP	Sealing cap for AC cable connectors (female)
	
AC-TRUNK UNLOCK TOOL	MICRO inverter and PLUG CAP connector unlocking tool
	



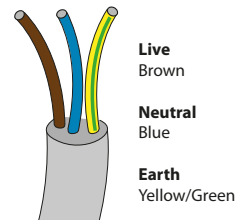
CONNECTIONS, EXAMPLE ASSEMBLY AND BASIC SPECIFICATION CREATION

Below is a practical example of interconnecting **AC-TRUNK** system components, and basic specification creation.

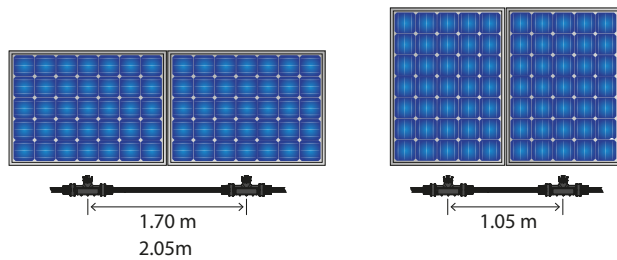


PRACTICAL SUGGESTIONS

The Power-One **AC-TRUNK-BUS** cable has 3 conductors with different colours identifying their function.

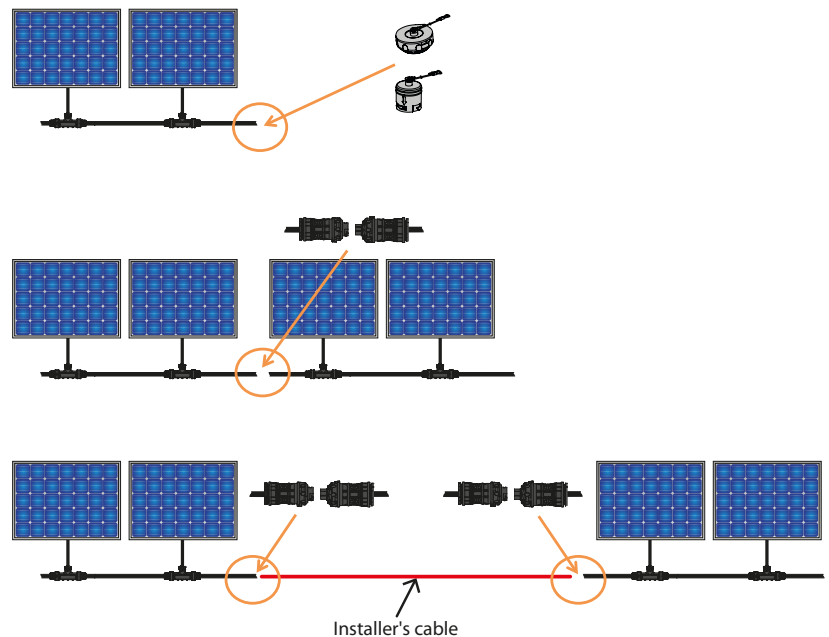


The installer has the option of choosing between several **AC-TRUNK-BUS** cables, with varying lengths between the connectors, depending on the size and positioning of the panels (horizontal or vertical).



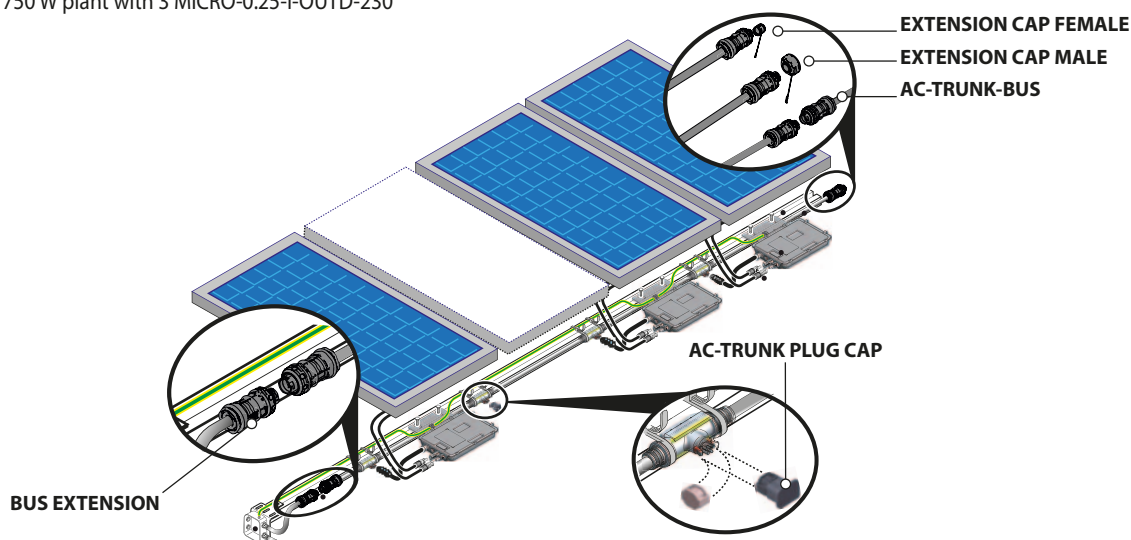
Each **AC-TRUNK-BUS** cable has connectors at the ends which can be:

- Terminated using specific **EXTENSION CAPS**.
- Connected to other Power-One **AC-TRUNK-BUS** units.
- Used to create extensions thanks to the **AC-TRUNK-BUS EXTENSION** counterparts:



EXAMPLE ASSEMBLY AND BILL OF MATERIAL

750 W plant with 3 MICRO-0.25-I-OUTD-230



Code	Quantity
MICRO-0.25-I	3
PVI-CDD	1
AC-TRUNK-BUS-1,05m-4PLUGS-3x4mm ²	1
AC-TRUNK-BUS-1,70m-4PLUGS-3x4mm ²	0
AC-TRUNK-BUS-2,05m-4PLUGS-3x4mm ²	0
AC-TRUNK PLUG CAP	1
AC-TRUNK UNLOCK TOOL	0
AC-TRUNK-BUS EXTENSION-MALE-3PINS	0
AC-TRUNK-BUS EXTENSION-FEMALE-3PINS + AC-BUS-EXTENSION UNLOCK TOOL	1
AC-TRUNK-EXTENSION CAP-MALE-3PINS	0
AC-TRUNK-EXTENSION CAP-FEMALE-3PINS	1

Ver. 2013-04-0-EN - All products are subject to technical improvements without notice.

www.power-one.com

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