

PV Combiners & Cabling Kits

E24™

P110E



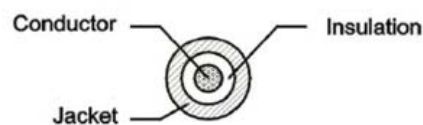
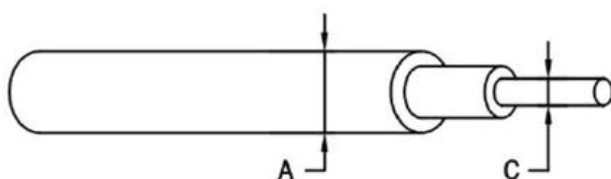
Comprehensive range of UV rated Cables for PV applications and cabling accessories

When installing a solar system, it is important to remember that the owner is expecting his solar system to live at least 25 years which is the warranty period on his solar panels. In practice solar panels will remain operational beyond 40 years if installed properly.

When using the proper solar cables and accessories, solar installers can avoid being called back on the job to make repairs under warranty.

E24 offers a comprehensive range of cables that are UV rated and adapted to high voltage and harsh environment of solar applications.

Single Core Solar Cables



- Dual wall insulation, Electron beam cross-linked
- Excellent resistance to U.V., Water, ozone, fluids, salt, general weathering
- Excellent resistance to abrasion
- Halogen free, flame retardant, low toxicity
- Excellent flexibility and stripping performance
- High current carrying capacity
- Standards: PV1-F, TÜV 2 PfG 69/08.2007

Type	Cross section	Stand Design	Conductor diameter	Conductor resistance	Outer diameter	Rated voltage	Rated current
	mm ²	No. x Ø (mm)	mm	Ω/Km	mm	VAC/DC	A
PV-1x1.5mm ²	1.5	30 x Ø 0.25	1.6	13.9	4.5	1000/1800	20
PV-1x2.5mm ²	2.5	48 x Ø 0.25	2.0	8.06	5.3	1000/1800	30
PV-1x4.0mm ²	4.0	56 x Ø 0.3	2.6	4.97	6.2	1000/1800	50
PV-1x6.0mm ²	6.0	81 x Ø 0.3	3.3	3.52	7.2	1000/1800	70
PV-1x10.0mm ²	10.0	200 x Ø 0.25	4.4	2.12	8.3	1000/1800	95
PV-1x16.0mm ²	16.0	224 x Ø 0.3	5.2	1.95	9.5	1000/1800	140

Technical Data

Wire	5 Class 5, tinned
Insulation material	XLPE
Double insulated	
Halogen-free	
High resistance against oils, greases, oxygen and ozone	
Microbe-resistant	

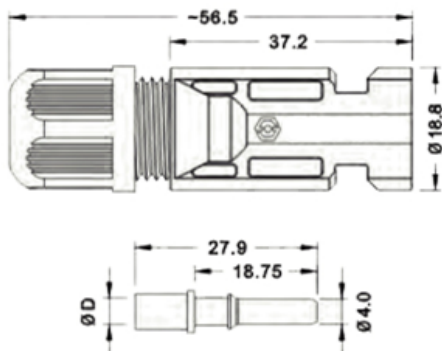
UV resistant	
High wear and abrasion resistance	
Flame test according to	DIN EN 50265-2-1, UL 1571 (VW-1), EN 60332-1
Smallest permissible Bending Radius	5 x D
Temperature range	-40°C ~ +90°C
Colours	Blue Black Red

Solar MC4 Connector

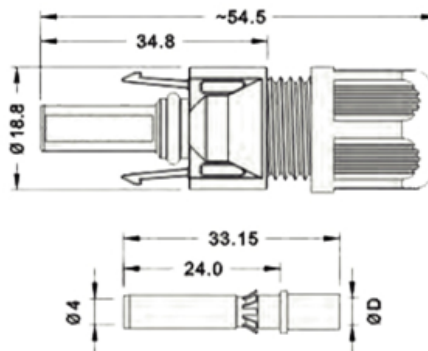
- Compatible MC4
- Simple on-site processing
- Mating safety provided by keyed housings
- Multiple plugging and unplugging cycles
- Accommodates PV cable with different insulation diameters
- High current carrying capacity



Male



Female



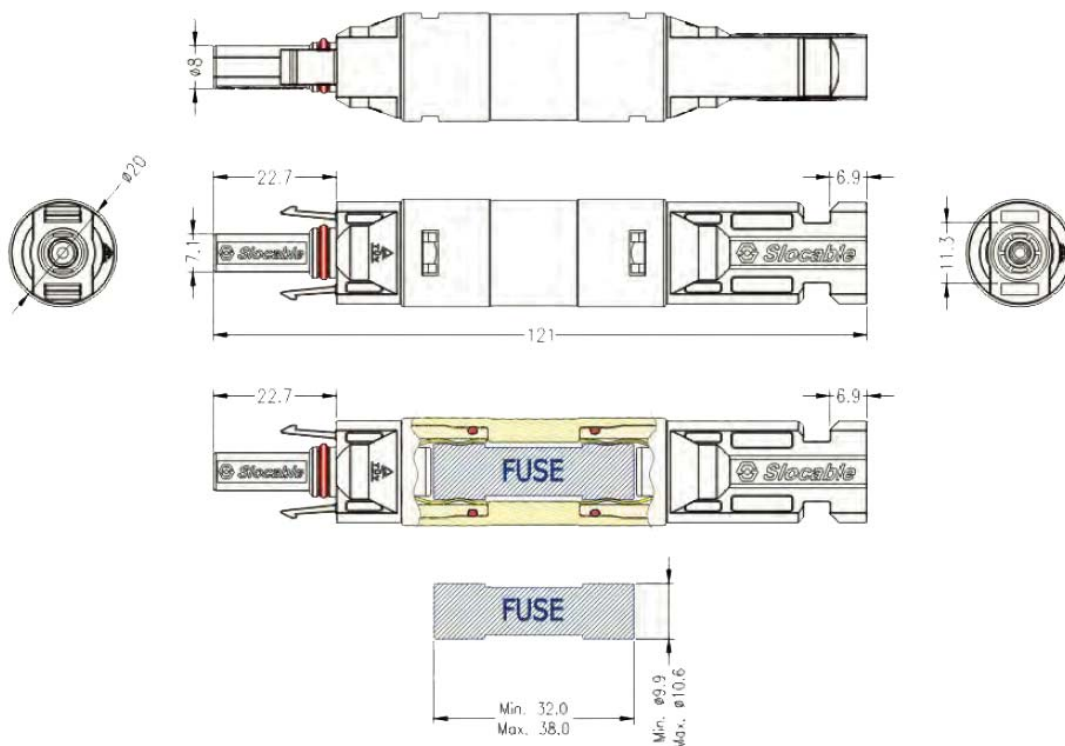
Technical Data

Rated current	30A(2.5-6mm ²)
Rated voltage	1000V DC
Test voltage	6000V(50Hz,1min.)
Over voltage category/ Pollution degree	CATIII/2
Contact resistance of plug connectors	1mΩ
Contact material	Copper, Ag plated
Insulation material	PPO

Degree of protection	IP67
Flame class	UL94-V0
Safety class	II
Suitable cable	OD 4.5-8.5 (2.5-6.0mm ²)
Insertion force/ Withdrawal force	≤50N / ≥50N
Connecting System	Crimp connection
Temperature range	-40°C ~ +125°C

MC4 Fuses

- Compatible MC4
- Simple on-site processing
- Accommodates different specifications of the FUSE
- Mating safety provided by keyed housings
- Multiple plugging and unplugging cycles
- High current carrying capacity



Rated current	30Amax (According to the FUSE)
Rated voltage	1000V DC
Test voltage	6000V (50Hz, 1min.)
Over voltage category/ Pollution degree	CATIII/2
Contact resistance of plug connectors	1mΩ
Contact material	Copper, Ag plated
Insulation material	PPO

FUSE	
Degree of protection	IP67
Flame class	UL94-V0
Safety class	II
Insertion force/ Withdrawal force	≤50N / ≥50N
Connecting System	Crimp connection
Temperature range	-40°C ~ +125°C

Kit Components:

The Cable Kit contains the following components:

Component #	Description
PVCA-CB1R-025	Solar Cable 1x2.5mm ² (250m/roll) Red
PVCA-CB1B-025	Solar Cable 1x2.5mm ² (250m/roll) Black
PVCA-CB1R-040	Solar Cable 1x4mm ² (250m/roll) Red
PVCA-CB1B-040	Solar Cable 1x4mm ² (250m/roll) Black
PVCA-CB1R-060	Solar Cable 1x6mm ² (250m/roll) Red
PVCA-CB1B-060	Solar Cable 1x6mm ² (250m/roll) Black
PVCA-MC4F-30	MC4 Fuse holder for fuses from 1 to 30A
PVCA-MC4C-25P	MC4 Connector 2.5mm ² (1xMale + 1x Female) set for PV panels
PVCA-MC4C-40P	MC4 Connector 4.0mm ² (1xMale + 1x Female) set for PV panels
PVCA-MC4C-25C	MC4 Connector (1xMale + 1x Female) for Chassis Mounting
PVCA-TBC	MC4 branch connectors (2F1M + 2M1F)
PVCA-CT1	Crimping Tool and MC4 Connector Spanner
PVCA-R04-10	Solar Cable 1x4.0mm ² (10 m) Red; double ended w/ MC4 connector
PVCA-B04-10	Solar Cable 1x4.0mm ² (10 m) Black; double ended w/ MC4 connector
SCB2-1	Solar Combiner Box for 2 Inputs Containing 4x15A DC Fuses and a 1000VDC 40KA Surge Arrestor
SCB3-1	Solar Combiner Box for 3 Inputs Containing 6x15A DC Fuses and a 1000VDC 40KA Surge Arrestor
SCB4-1	Solar Combiner Box for 4 Inputs Containing 8x15A DC Fuses and a 1000VDC 40KA Surge Arrestor
SCB5-1	Solar Combiner Box for 2 Inputs Containing 10x15A DC Fuses and a 1000VDC 40KA Surge Arrestor

Kit Content:

Each Cable Kit is composed of the following components:

Product #	Component #	Quantity
PVCK-L1-2S	PVCA-CB1R-040	0.1
	PVCA-CB1B-040	0.1
	PVCA-MC4C-40P	1
	PVCA-TBC	1
PVCK-L1-4S	PVCA-CB1R-040	0.2
	PVCA-CB1B-040	0.2
	PVCA-MC4C-40P	2
	PVCA-TBC	2
	SCB2-1	1
PVCK-L1-6S	PVCA-CB1R-040	0.3
	PVCA-CB1B-040	0.3
	PVCA-MC4C-40P	3
	PVCA-TBC	3
	SCB3-1	1
PVCK-L1-8S	PVCA-CB1R-040	0.4
	PVCA-CB1B-040	0.4
	PVCA-MC4C-40P	4
	PVCA-TBC	4
	SCB4-1	1
PVCK-L1-10S	PVCA-CB1R-040	0.5
	PVCA-CB1B-040	0.5
	PVCA-MC4C-40P	5
	PVCA-TBC	5
	SCB5-1	1
PVCK-02S	PVCA-MC4F-30	1
	PVCA-R04-10	1
	PVCA-B04-10	1
	PVCA-TBC	1

Ordering Information

Ref Number	Description
PVCK-L1-2S	PV Cabling Kit, Level1, Including combining box for up to 2 series
PVCK-L1-4S	PV Cabling Kit, Level1, Including combining box for up to 4 series
PVCK-L1-6S	PV Cabling Kit, Level1, Including combining box for up to 6 series
PVCK-L1-8S	PV Cabling Kit, Level1, Including combining box for up to 8 series
PVCK-L1-10S	PV Cabling Kit, Level1, Including combining box for up to 10 series
PVCK-02S	PV Cable Kit for 2 Panels in Series (2 Panels)



PV Panels

PV Cabling Kits

PV Mounting Kits



E24 Modular Range Of Products For Building Easy, Flexible & Evolutive Solutions

E24 products dynamically evolve with the lifestyle and work style of its customers while easing the installation process.

E24 products are conceived in modules allowing for an easy upgrade to adjust with the needs of the customers. Being modular and easy to connect E24 products allow installers to easily configure the required modules for an optimal solution while offering easy upgrade options.



REGIONAL SALES OFFICES

North America:

1250, Rene Levesque West, #2200
Montreal, Quebec,
Canada H3B 4W8
Phone: +1-514-9893700
Sales_R1@e24solutions.com

Europe:

20-22 Wenlock Road
London N1 7GU
United Kingdom
Phone: +44-2038242497
Sales_R4@e24solutions.com

Eurasia:

5th and 6th Floors,
14 Tsar Osvoboditel Blvd.,
1000 Sofia, Bulgaria
Phone: +359-2-811-1445
Sales_R5@e24solutions.com

Middle East & Africa:

May Tabet Building,
Sin El Fil
Beirut, Lebanon
Phone: +961-1-492705
Sales_R6@e24solutions.com

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