

Catalog

Solution series MC4-Evo2 photovoltaic connectors

MC4-Evo2 PV connectors

The latest generation of photovoltaic connectors

The MC4-Evo2 range is the latest evolution of MC4 PV connectors. Combining the highest performances on the market and worldwide certifications, this new range benefits from years of expertise making it truly reliable.







Easy to install

Install it everywhere without any operational restriction:

- Installation in unrestricted access locations by any professional (Class A approval)
- Easy and quick preparation thanks to adapted tools
- Efficient locking system saving mounting time.

MC4 and MC4-Evo2 manufactured by Multi-Contact



Safety and protection

Protect personnel and secure installations with:

- Constant contact pressure maintained by a patented contact technology
- Quality track record over the past 20 years
- Integrated lock clip (NEC 2011 compliant).

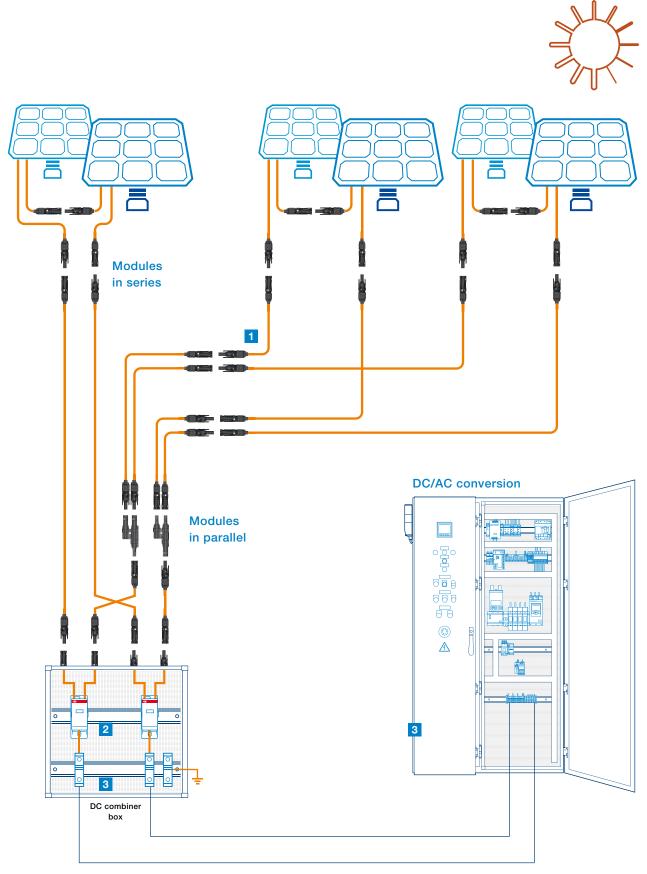


Reliable in harsh conditions

Trust your installation in all environmental conditions:

- Extensive environmental testing (UV, ammonia, salt-mist spray)
- High IP class (IP65/IP68, 1 m/60 min, mated)
- Impact-resistant polyamide housing
- Worldwide certified.

Connection devices for solar applications Connection products in PV installations



MC4 and MC4-Evo2 manufactured by Multi-Contact

Leading player in the solar power industry since the early 1990s, ABB's portfolio of products, systems and solutions for the solar power industry is extensive. Benefit from one single source for all connection needs thanks to ABB complete connection offering for solar applications.

1 MC4-Evo2 PV connectors

- Ensure connections of the DC circuits on commercial, industrial and residential rooftop PV installations: from the PV modules to the combiner boxes (in series or in parallel) and from the combiner boxes to the string inverter
- Products made by Multi-Contact and therefore fully compatible and equivalent to all MC4 family products
- Rated voltage up to 1500 V DC (IEC) / 1500 V DC (UL).



2 DBL range - Distribution blocks

- Grouping of several inputs into one output for DC applications, or single and multipole splitting for AC power applications
- Reversible cover that facilitates identification and wiring
- Modular and touch proof design that eliminates bus bars, isolators, fasteners or protection screens
- Saving up to 50% rail space
- Rated voltage up to 1500 V DC (IEC) / 1000 V DC (UL).





3 SNK series - Terminal blocks

- 2 technologies available with common accessories and suitable for AC power applications and DC photovoltaic systems
- Screwless PI-Spring technology that combines 2 connection modes: direct push-in mode for 50% time saving and screwdriver connection mode for improved comfort
- Screw clamp technology to connect 2 wires in 1 clamp
- Rated voltage up to 1500 V DC (IEC) / 1000 V DC (UL).



Connection devices for solar applications Selection guide



MC4-Evo2 PV connectors

Connector type	Cross sec	tion	Max rated	Max rated current		oltage	Туре	Order code	Pkg
	IEC	UL	IEC	UL	IEC	UL			qty
	mm²	in	Α	Α	V DC	V DC			
Female									
Plug	4 6	12 10	45/53	35/50	1500	1500	PV-PLUG-F6/6.1	1SNV420862R0000	10
			Ī					1SNV420864R0000	100
	4 6	6 12 10	45/53	35/50	1500	1500	PV-PLUG-F6/7.6	1SNV420882R0000	10
								1SNV420884R0000	100
	4 6	4 6 12 10	45/53	35/50	1500	1500	PV-PLUG-F6/8.5	1SNV420902R0000	10
								1SNV420904R0000	100
	10	8	69	70	1500	1500	PV-PLUG-F10/8.5	1SNV420924R0000	100
Panel receptacle (1)	4 6	12 10	39/45	30	1250	1000	PV-RECEP-F6	1SNV420944R0000	100
Branch connector	-	-	30	50	1000	1500	PV-BRANCH-F	1SNV420183R0000	20
Male									
Plug	4 6	12 10	45/53	35/50	1500	1500	PV-PLUG-M6/6.1	1SNV420872R0000	10
_								1SNV420874R0000	100
	4 6	12 10	45/53	35/50	1500	1500	PV-PLUG-M6/7.6	1SNV420892R0000	10
								1SNV420894R0000	100
	4 6	12 10	45/53	35/50	1500	1500	PV-PLUG-M6/8.5	1SNV420912R0000	10
								1SNV420914R0000	100
	10	8	69	70	1500	1500	PV-PLUG-M10/8.5	1SNV420934R0000	100
Panel receptacle (1)	4 6	12 10	39/45	30	1250	1000	PV-RECEP-M6	1SNV420954R0000	100
Branch connector	-	-	30	50	1000	1500	PV-BRANCH-M	1SNV420193R0000	20

⁽¹⁾ MC4 original to be replaced by MC4-Evo2 types end of 2016



DBL Distribution blocks

	Max curre	ent	Coi	nnectio	n type	Max cross	section					Туре	Order code	Pkg
	IEC	UL/CSA				-				_				qty
		<u> </u>		Diam	eter	Flexible wit	h ferrule	Stranded		Rigid (solid	igid (solid)			
				of cal										
			nb	mm	in	mm²	AWG	mm²	AWG	mm²	AWG			
$^{\circ}$	Cu: 80 A	Cu: 80 A	3	6.6	0.26	2.5 16	14 6	2.5 16	14 4	2.5 16	14 10	DBL80	1SNL308010R0000	1
	Al: 63 A		4	4.5	0.177	2.5 6	14 10	2.5 6	14 10	2.5 6	14 10			
	Cu: 125 A	Cu: 115 A	1	9.8	0.386	10 35	8 2	10 35	8 2	10 35	-	DBL125	1SNL312510R0000	1
	Al: 100 A		1	6.8	0.268	2.5 16	14 6	6 16	10 6	6 16	10			
0-700			6	6.5	0.256	2.5 16	14 6	2.5 16	14 6	2.5 16	14 10			
OT;;;	Cu: 160 A	Cu: 160 A	1	11.8	0.465	10 50	8 1/0	10 70	6 2/0	10 70	-	DBL160	1SNL316010R0000	1
	Al: 135 A		1	6.8	0.268	2.5 16	14 6	6 16	10 6	6 16	10			
			6	6.5	0.256	2.5 16	14 6	2.5 16	14 6	2.5 16	14 10			
O-£88	Cu: 175 A	Cu: 175 A	2	11.8	0.465	10 50	8 1/0	10 70	6 2/0	10 70	-	DBL175	1SNL317510R0000	1
Ŏ -	Al: 135 A		10	6.4	0.252	2.5 16	14 6	2.5 16	14 6	2.5 16	14 10			
	Cu: 250 A	Cu: 255 A	1	15.3	0.602	35 95	2 3/0	35 120	2 250 kcmil	35 120	-	DBL250	1SNL325010R0000	1
	Al: 200 A	•	2	8.7	0.343	2.5 25	14 4	2.5 35	14 2	2.5 35	14 10			
0.0		:	5	6.5	0.256	2.5 16	14 6	2.5 16	14 6	2.5 16	14 10			
_ 🚟			4	5.7	0.224	2.5 10	14 8	2.5 10	14 8	2.5 10	14 10			
OF	Cu: 400 A	Cu: 335 A	1		0.78			95 185	3/0 400 kcmil	95 185	-	DBL400	1SNL340010R0000	1
ت-	Al: 300 A		2	8.7	0.343	2.5 25	14 4	2.5 35	14 2	2.5 35	14 10			
			5	6.5	0.256	2.5 16	14 6	2.5 16	14 6	2.5 16	14 10			
			4	5.7	0.224	2.5 10	14 8	2.5 10	14 8	2.5 10	14 10			

Rated voltage 1000 V AC, 1500 V DC (IEC) / 1000 V AC/DC (UL/CSA)

MC4 and MC4-Evo2 manufactured by Multi-Contact



SNK series, terminal blocks - PI-Spring

Cross section		Rated current		:	Rated voltage		Туре		
IEC mm²	UL/CSA AWG	IEC A	UL/CSA A	connections	IEC	UL/CSA			
2.5 10	12 6	24 57	20 55	. 55 2 1000 V AC/DC		600 V AC/DC	ZK2.5, ZK4, ZK6, ZK10		
2.5 and 4	12 and 10	24 and 32	20 and 30	3 4			ZK2.5-3P, ZK4-3P, ZK6-3P, ZK10-3P ZK2.5-4P		
10 and 16	6 and 4	57 and 76	55 and 75	2			ZK4-4P ZK10		
							ZK16		
10 and 16	6 and 4	ad 4 57 and 76 5		3	1000 V AC / 1250 V DC	1000 V AC/DC	ZK10-3P ZK16-3P		



SNK series, terminal blocks - Screw clamp

Cross section		Rated current		Number of	Rated voltage		Туре
IEC	UL/CSA	IEC	UL/CSA	connections	IEC	UL/CSA	
mm²	AWG	Α	Α				
2.5 10	14 6	32 57	20 42	2	1000 V AC / 1030 V DC		ZS4, ZS6, ZS10
16	4	76	67	Ī	1000 V AC / 1050 V DC		ZS16
25	3	101	100	-		1000 V AC/DC (1)	ZS25
50 95	1/0 3/0	150 232	140 230		1000 V AC / 1250 V DC	1000 V AC/DC	ZS50, ZS70, ZS95

⁽¹⁾ With dedicated accessories



SNK series, terminal blocks - Pluggable

Cross section		Rated current		Number of	Rated voltage		Туре
IEC	UL/CSA	IEC	UL/CSA	connections	IEC	UL	
mm²	AWG	Α	Α				
2.5	12	24 A	22 A	4	1000 V AC/DC	600 V AC/DC	ZDK2.5-22
4	10	30 A	30 A				ZDK4-22
		29 A	28 A	1			ZDS4-22

MC4-Evo2 PV connectors Features and benefits

20 years of expertise

- ABB has selected the best and most reliable products on the market, manufactured by Multi-Contact
- Proven MULTILAM contact technology resulting in a low and constant contact resistance with long-term stability
- Designed in Switzerland, manufactured in Germany.



Highest performances on the market

- Highest voltage levels: 1500 V DC (IEC) / 1500 V DC (UL)
- High current levels: up to 70 A
- Class A: installation in unrestricted access locations by any professional.



Complete range of connectors and accessories

- Plugs, panel receptacles and branch connectors for all solar connection needs
- Multi-Contact ensures full compatibility and conformity with other connectors from MC4 family
- Certifications received for the combination of plugs and crimping tool.



Worldwide tested and certified products

- Internationally certified: TÜV (IEC), UL, EAC, JET, cTÜVus, RoHS
- Suited for all climatic environments
- NEC 2011 compliant: integrated lock clip.



MC4-Evo2 PV connectors Range overview





Plug connectors				Female	Male
DIA cable in:	sulation	Cross sec	tion	 _	-
mm	in	mm²	AWG	, 0	- ~
4.7 6.1	0.18 0.24	4 6	12 10	PV-PLUG-F6/6.1	PV-PLUG-M6/6.1
6.1 7.6	0.24 0.29	4 6	12 10	PV-PLUG-F6/7.6	PV-PLUG-M6/7.6
7.6 8.5	0.29 0.33	4 6	12 10	PV-PLUG-F6/8.5	PV-PLUG-M6/8.5
7.6 8.5	0.29 0.33	10	8	PV-PLUG-F10/8.5	PV-PLUG-M10/8.5





Panel r	eceptacles	MC4 origi	inal (1)	Female	Male
DIA cable	insulation in	Cross sec	ction AWG) —0	■—○
_	_	4 6	12 10	PV-RECEP-F6	PV-RECEP-M6

⁽¹⁾ MC4 original to be replaced by MC4-Evo2 types end of 2016 $\,$





Branch connectors	Female	Male
In / out		
2 females / 1 male	PV-BRANCH-F	
2 males / 1 female		PV-BRANCH-M

PV-PLUG-F6/6.1, PV plug connector Female - 4 ... 6 mm² - 12 ... 10 AWG cross section

Ø 4.7 ... 6.1 mm - 0.18 ... 0.24 in cable insulation





PV-PLUG-F6/6.1



Description

Combines the highest performances on the market with proven long-term efficiency:

- 1500 V DC (IEC), 1500 V DC (UL),
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 273.

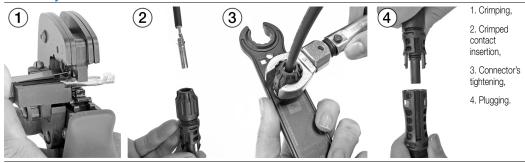
Ordering details

_	•						
Description		Color	Туре	Order code	Pkg	Weight	
					qty	(1 pce) g	
Female	PV plug connector	Black	PV-PLUG-F6/6.1	1SNV420862R0000	10	10.5	
			PV-PLUG-F6/6.1	1SNV420864R0000	100	10.5	

Main technical data **Mounting instructions**

Connecting capacity	IEC	UL	Wire stripping		6 7.5 mm
			length		0.236 0.275 in
Cross section	4 6 mm²	12 10 AWG			į
Cable insulation diameter	4.7 6.1 mm -	0.18 0.24 in		:	
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	45 / 53 A	35 / 50 A	Torque	<u> </u>	3.4 3.5 Nm
Rated voltage	1500 V DC	1500 V DC		((),	30.131 lb.in
Rated impulse voltage	16000 V	12000 V		\bigcirc	
Protection (mated)	IP65 / IP68				
Ambient temperature range	-40 +85 °C				
Upper limiting temperature	115 °C				
All other data are provided as supplementary information only. For n	noro dotaile, plages cons	ult our portification and to	chnical datachast availal	olo on http://www.AR	P com

Assembly instructions





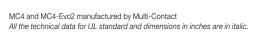
Tools

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For plug connectors 4 6 mm ²	Blue-black	PV-CRIMP-PLUG	1SNV420411R0000	1	735
2	Wrench tool	To tighten	Grey 🔲	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
3	Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.



	Description		Color	Type	Order code	Pkg	Weight
						qty	(1 pce) g
1	Sealing cap	For unmated female connectors	Black	PV-CAP-F	1SNV420164R0000	100	3.7



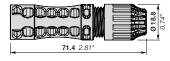
PV-PLUG-M6/6.1, PV plug connector

Male - 4 ... 6 mm² - 12 ... 10 AWG cross section Ø 4.7 ... 6.1 mm - 0.18 ... 0.24 in cable insulation





PV-PLUG-M6/6.1



Description

Combines the highest performances on the market with proven long-term efficiency:

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- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 273.

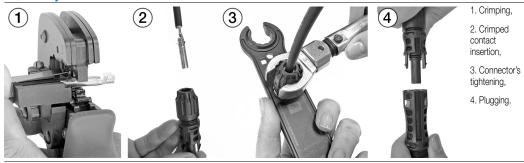
Ordering details

_						
Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Male	PV plug connector	Black	PV-PLUG-M6/6.1	1SNV420872R0000	10	14.4
			PV-PLUG-M6/6.1	1SNV420874R0000	100	14.4

Main technical data	Mounting	Mounting instructions			
Connecting capacity	IEC	UL	Wire stripping length		6 7.5 mm 0.236 0.275 ir
Cross section	4 6 mm ²	12 10 AWG	_		:
Cable insulation diameter	4.7 6.1 mm	- 0.18 0.24 in			
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	45 / 53 A	35 / 50 A	Torque	<u> </u>	3.4 3.5 Nm
Rated voltage	1500 V DC	1500 V DC		((),	30.131 lb.in
Rated impulse voltage	16000 V	12000 V			:
Protection (mated)	IP65 / IP68				
Ambient temperature range	-40 +85 °C	•••••			
Upper limiting temperature	115 °C	•••••			:

RoHS EAC

Assembly instructions





Tools

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For plug connectors 4 6 mm ²	Blue-black	PV-CRIMP-PLUG	1SNV420411R0000	1	735
2	Wrench tool	To tighten	Grey 🔙	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
3	Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.

Accessories

Color	Туре	Order code	Pkg	Weight
			qty	(1 pce) g
Black	PV-CAP-M	1SNV420174R0000	100	2.8
		Color Type Black PV-CAP-M	7	qty



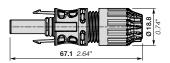
PV-PLUG-F6/7.6, PV plug connector

Female – 4 ... 6 mm² - 12 ... 10 AWG cross section Ø 6.1 ... 7.6 mm - 0.24 ... 0.29 in cable insulation





PV-PLUG-F6/7.6



Description

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- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 273.

Ordering details

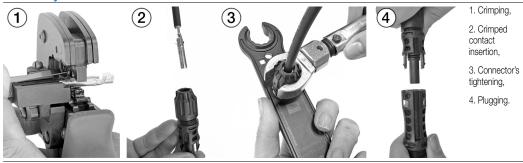
			,	,			,
Description		Color	Туре	Order code	Pk	Pkg	Weight
			-			qty	(1 pce) g
Female	PV plug connector	Black	PV-PLUG-F6/7.6	1SNV420882R0000		10	10.5
			PV-PLUG-F6/7.6	1SNV420884R0000		100	10.5

Main technical data Mounting instructions

Connecting capacity	IEC	UL	Wire stripping length		6 7.5 mm 0.236 0.275 in
Cross section	4 6 mm²	12 10 AWG	_	:	
Cable insulation diameter	6.1 7.6 mm	- 0.24 0.29 in	••••		
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	45 / 53 A	35 / 50 A	Torque	<u> </u>	3.4 3.5 Nm
Rated voltage	1500 V DC	1500 V DC		((),	30.131 lb.in
Rated impulse voltage	16000 V	12000 V			:
Protection (mated)	IP65 / IP68	•			
Ambient temperature range	-40 +85 °C		•••		
Upper limiting temperature	115 °C		•••		
All other data are provided as aupplementary information only. For r	noro dotoilo, placas ac	poult our portificates and to	ahniaal dataahaat availa	blo on http://www.AE	P com

All other data are provided as supplementary information only. For more details, please consult our certificates and technical datasheet available on http://www.ABB.com

Assembly instructions





Tools

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For plug connectors 4 6 mm ²	Blue-black	PV-CRIMP-PLUG	1SNV420411R0000	1	735
2	Wrench tool	To tighten	Grey 🔲	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
3	Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.



Accessories

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Sealing cap	For unmated female connectors	Black	PV-CAP-F	1SNV420164R0000	100	3.7

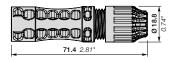
PV-PLUG-M6/7.6, PV plug connector Male - 4 ... 6 mm² - 12 ... 10 AWG cross section

Ø 6.1 ... 7.6 mm - 0.24 ... 0.29 in cable insulation





PV-PLUG-M6/7.6



Description

Combines the highest performances on the market with proven long-term efficiency:

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- User manual MA 273.

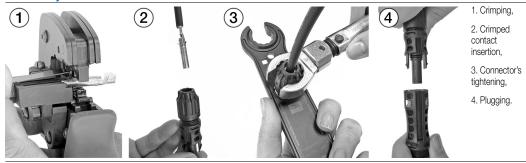
Ordering details

Description		Color	Туре	Order code	P	kg Weight
					qt	y (1 pce) g
Male	PV plug connector	Black	PV-PLUG-M6/7.6	1SNV420892R0000	1(14.4
			PV-PLUG-M6/7.6	1SNV420894R0000	1(00 14.4

Main technical data			Mounting instructions					
Connecting capacity	IEC	UL	Wire stripping length		6 7.5 mm 0.236 0.275 ir			
Cross section	4 6 mm²	12 10 AWG	_		:			
Cable insulation diameter	6.1 7.6 mm	- 0.24 0.29 in	····					
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	45 / 53 A	35 / 50 A	Torque	<u> </u>	3.4 3.5 Nm			
Rated voltage	1500 V DC	1500 V DC		((),	30.131 lb.in			
Rated impulse voltage	16000 V	12000 V		\bigcirc	:			
Protection (mated)	IP65 / IP68							
Ambient temperature range	-40 +85 °C							
Upper limiting temperature	115 °C	•••••	••••					

RoHS RoHS	SN USR	EAC EAC				TUV	§JET JET	cTL

Assembly instructions





Tools

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For plug connectors 4 6 mm ²	Blue-black	PV-CRIMP-PLUG	1SNV420411R0000	1	735
2	Wrench tool	To tighten	Grey 🔙	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
3	Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.

Accessories

• • •	0000001100						
	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Sealing cap	For unmated male connectors	Black	PV-CAP-M	1SNV420174R0000	100	2.8

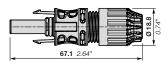
PV-PLUG-F6/8.5, PV plug connector

Female - 4 ... 6 mm² - 12 ... 10 AWG cross section Ø 7.6 ... 8.5 mm - 0.29 ... 0.33 in cable insulation





PV-PLUG-F6/8.5



Description

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- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 273.

Ordering details

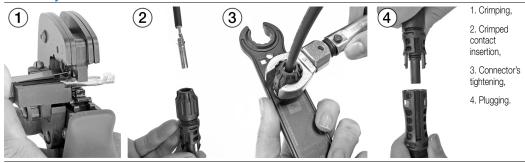
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Description		Color	Туре	Order code	Pkg	Weight	
					qty	(1 pce) g	
Female	PV plug connector	Black	PV-PLUG-F6/8.5	1SNV420902R0000	10	10.5	
			PV-PLUG-F6/8.5	1SNV420904R0000	100	10.5	

Main technical data **Mounting instructions**

Connecting capacity	IEC	UL	Wire stripping length		6 7.5 mm 0.236 0.275 in			
Cross section	4 6 mm²	12 10 AWG	_					
Cable insulation diameter	7.6 8.5 mm	- 0.29 0.33 in						
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	45 / 53 A	35 / 50 A	Torque	<u> </u>	3.4 3.5 Nm			
Rated voltage	1500 V DC	1500 V DC	•	((),	30.131 lb.in			
Rated impulse voltage	16000 V	12000 V		\bigcirc				
Protection (mated)	IP65 / IP68							
Ambient temperature range	-40 +85 °C							
Upper limiting temperature	115 °C							
All other data are provided as aupplementary information only. For r	noro dotoilo, placas ac	noult our cortificates and to	obnical datasheat availa	blo on http://www.AE	IP com			

All other data are provided as supplementary information only. For more details, please consult our certificates and technical datasheet available on http://www.ABB.com

Assembly instructions





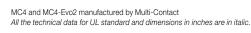
Tools

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For plug connectors 4 6 mm ²	Blue-black	PV-CRIMP-PLUG	1SNV420411R0000	1	735
2	Wrench tool	To tighten	Grey 🔲	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
3	Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.



	Description		Color	Type	Order code	Pkg	Weight
						qty	(1 pce) g
1	Sealing cap	For unmated female connectors	Black	PV-CAP-F	1SNV420164R0000	100	3.7



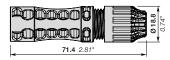
PV-PLUG-M6/8.5, PV plug connector

Male - 4 ... 6 mm² - 12 ... 10 AWG cross section Ø 7.6 ... 8.5 mm - 0.29 ... 0.33 in cable insulation





PV-PLUG-M6/8.5



Description

Combines the highest performances on the market with proven long-term efficiency:

- 1500 V DC (IEC), 1500 V DC (UL),
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 273.

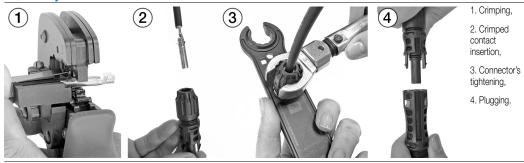
Ordering details

Description		Color	Туре	pe Order code		g Weight
					qty	(1 pce) g
Male	PV plug connector	Black	PV-PLUG-M6/8.5	1SNV420912R0000	10	14.4
			PV-PLUG-M6/8.5	1SNV420914R0000	100	14.4

Main technical data			Mounting	Mounting instructions				
Connecting capacity	IEC	UL	Wire stripping length		6 7.5 mm 0.236 0.275 in			
Cross section	4 6 mm ²	12 10 AWG	_					
Cable insulation diameter	7.6 8.5 mm	- 0.29 0.33 in	····					
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	45 / 53 A	35 / 50 A	Torque	<u> </u>	3.4 3.5 Nm			
Rated voltage	1500 V DC	1500 V DC		((),	30.131 lb.in			
Rated impulse voltage	16000 V	12000 V		\bigcirc				
Protection (mated)	IP65 / IP68	•••••	••••					
Ambient temperature range	-40 +85 °C		••••					
Upper limiting temperature	115 °C							

RoHS EAC

Assembly instructions





Tools

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For plug connectors 4 6 mm ²	Blue-black	PV-CRIMP-PLUG	1SNV420411R0000	1	735
2	Wrench tool	To tighten	Grey 🔲	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
3	Open-end spanners	s 2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.



• • •	0000001100						
	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Sealing cap	For unmated male connectors	Black	PV-CAP-M	1SNV420174R0000	100	2.8

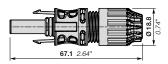


PV-PLUG-F10/8.5, PV plug connector Female - 10 mm² - 8 AWG cross section Ø 7.6 ... 8.5 mm - 0.29 ... 0.33 in cable insulation





PV-PLUG-F10/8.5



Description

Combines the highest performances on the market with proven long-term efficiency:

- 1500 V DC (IEC), 1500 V DC (UL),
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 273.

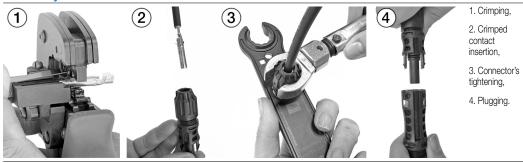
Ordering details

Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Female	PV plug connector	Black	PV-PLUG-F10/8.5	1SNV420924R0000	100	10.6

Main technical data Mounting instructions Connecting capacity IEC UL Wire stripping 6 ... 7.5 mm length 0.236 ... 0.275 in Cross section 8 AWG 10 mm² Cable insulation diameter 7.6 ... 8.5 mm - 0.29 ... 0.33 in Maximum rated current 4 / 6 mm² - 12 / 10 AWG 69 A 3.4 ... 3.5 Nm 70 A Torque 1500 V DC Rated voltage 1500 V DC 30.1 ...31 lb.in Rated impulse voltage 16000 V 12000 V Protection (mated) IP65 / IP68 Ambient temperature range -40 ... +85 °C Upper limiting temperature 115 °C

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Assembly instructions





Tools

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For plug connectors 4 6 mm ²	Blue-black	PV-CRIMP-PLUG	1SNV420411R0000	1	735
2	Crimping tool	Insert for plug connectors 10 mm ²	Black 🔣	PV-INSERT	1SNV420421R0000	1	44
3	Wrench tool	To tighten	Grey 🔲	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
4	Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.



Accessories

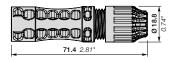
	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Sealing cap	For unmated female connectors	Black	PV-CAP-F	1SNV420164R0000	100	3.7

PV-PLUG-M10/8.5, PV plug connector Male - 10 mm² - 8 AWG cross section Ø 7.6 ... 8.5 mm - 0.29 ... 0.33 in cable insulation





PV-PLUG-M10/8.5



Description

Combines the highest performances on the market with proven long-term efficiency:

- 1500 V DC (IEC), 1500 V DC (UL),
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 273.

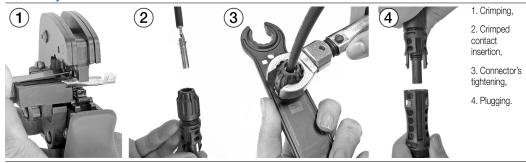
Ordering details

Description		Color	Туре	Order code	Pkg	Weight
		:	; ;		qty	(1 pce) g
Male	PV plug connector	Black 🔳	PV-PLUG-M10/8.5	1SNV420934R0000	100	14.5

Main technical data	Mounting	Mounting instructions			
Connecting capacity	IEC	UL	Wire stripping length		6 7.5 mm 0.236 0.275 in
Cross section	10 mm ²	8 AWG	_		
Cable insulation diameter	7.6 8.5 mm	- 0.29 0.33 in			
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	69 A	70 A	Torque	<u> </u>	3.4 3.5 Nm
Rated voltage	1500 V DC	1500 V DC		$(\bigcirc,$	30.131 lb.in
Rated impulse voltage	16000 V	12000 V			
Protection (mated)	IP65 / IP68	•••••			
Ambient temperature range	-40 +85 °C	•••••			
Upper limiting temperature	115 °C	•••••			
All other data are provided as supplementary information only. For r	nore details, please co	onsult our certificates and	technical datasheet availa	ble on http://www.Al	BB.com

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All other data are provided as supplementary information only. For mo				more de	tails nlease	consult our	certificates	and technic	al datashe	t available o	n http://www.ARR.com	
All other data are provided as supplementary information only. For mi				nore de	taio, pioaoc	oorloak oal	oortinoatoo	dia tooriiic	ai dataoi ioc	or available o	1111(tp://11111131BB:00111	
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Assembly instructions







Tools

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For plug connectors 4 6 mm ²	Blue-black	PV-CRIMP-PLUG	1SNV420411R0000	1	735
2	Crimping tool	Insert for plug connectors 10 mm ²	Black	PV-INSERT	1SNV420421R0000	1	44
3	Wrench tool	To tighten	Grey 🔙	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
4	Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.



Accessories

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Sealing cap	For unmated male connectors	Black	PV-CAP-M	1SNV420174R0000	100	2.8

PV-RECEP-F6, PV panel receptacle Female - 4 ... 6 mm² - 12 ... 10 AWG cross section







Description

- Installed on combiner boxes and inverters,
- 1250 V DC (IEC), 1000 V DC (UL),
- MC4-Evo2 version (1500 V DC IEC and UL) available at the end of 2016,
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 275.

Ordering details

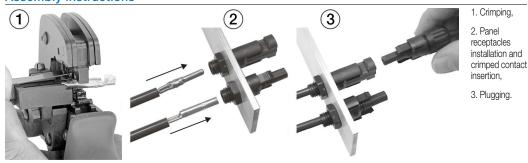
Description		Color	Туре	Order code	Pkg	Weight
			•		qty	(1 pce) g
Female	PV panel receptacle	Black 📕	PV-RECEP-F6	1SNV420944R0000	100	7.3

Main technical data Mounting instructions

Connecting capacity	IEC	UL	length		0.236 0.275 in
Cross section	4 6 mm²	12 10 AWG			
Cable insulation diameter			••••		
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	39 / 45 A	30 A	Torque	/=	2 Nm
Rated voltage	1250 V DC	1000 V DC		((),	17.7 lb.in
Rated impulse voltage	16000 V	12000 V			
Protection (mated)	IP65 / IP68				
Ambient temperature range	-40 +85 °C				
Upper limiting temperature	105 °C				
All other data are provided as supplementary information only. For n	nore details, please co	onsult our certificates and te	echnical datasheet availal	ble on http://www.AB	B.com

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Assembly instructions







Tools

_	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For panel receptacles 4 6 mm ²	Blue-black	PV-CRIMP-RECEP	1SNV420191R0000	1	728
2	Wrench tool	To secure	Black 🔣	PV-SECU-TOOL	1SNV420261R0000	1	12.9
3	Wrench tool	To tighten	Grey 🔲	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
4	Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.

Accessories

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Sealing cap	For unmated female connectors	Black	PV-CAP-F	1SNV420164R0000	100	3.7

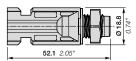


PV-RECEP-M6, PV panel receptacle Male - 4 ... 6 mm² - 12 ... 10 AWG cross section





PV-RECEP-M6



Description

- Installed on combiner boxes and inverters,
- 1250 V DC (IEC), 1000 V DC (UL),
- MC4-Evo2 version (1500 V DC IEC and UL) available at the end of 2016,
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 275.

Ordering details

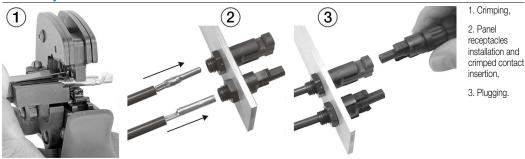
Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Male	PV panel receptacle	Black	PV-RECEP-M6	1SNV420954R0000	100	8.7
		,	,			

Main technical data **Mounting instructions**

Connecting capacity	IEC	UL	Wire stripping length		6 7.5 mm 0.236 0.275 in
Cross section	4 6 mm²	12 10 AWG	_		
Cable insulation diameter					
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	39 / 45 A	30 A	Torque	<u> </u>	2 Nm
Rated voltage	1250 V DC	1000 V DC		((),	17.7 lb.in
Rated impulse voltage	16000 V	12000 V			
Protection (mated)	IP65 / IP68	•			
Ambient temperature range	-40 +85 °C	••••	••••		
Upper limiting temperature	105 °C	***************************************	••••		
All other data are provided as supplementary information only. For r	nore details inlease con	nsult our certificates and to	echnical datasheet availal	ole on http://www.AF	RB com

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RoHS	USR	EAC				TUV	

Assembly instructions









Tools

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Crimping tool	For panel receptacles 4 6 mm ²	Blue-black	PV-CRIMP-RECEP	1SNV420191R0000	1	728
2	Wrench tool	To secure	Black	PV-SECU-TOOL	1SNV420261R0000	1	12.9
3	Wrench tool	To tighten	Grey 🔲	PV-TIGHT-TOOL	1SNV420061R0000	1	123.5
4	Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.





Accessories

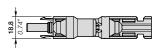
	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1 8	Sealing cap	For unmated male connectors	Black	PV-CAP-M	1SNV420174R0000	100	2.8
2 L	Lock clip	Nec 2011 compliant	Black 📰	PV-LOCK	1SNV420804R0000	100	2.14

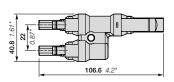
PV-BRANCH-F, PV branch connector Female





PV-BRANCH-F





Description

- For a safe and simple parallel or serial-parallel connection of PV modules,
- Highest performances on the market: 1000 V DC (IEC), 1500 V DC (UL),
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 250.

Ordering details

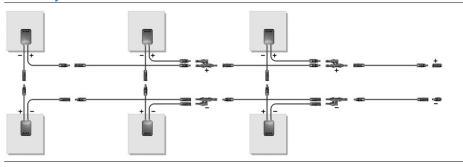
Description		Color	Туре	Order code	Pkg	Weight
			-		qty	(1 pce) g
Female	PV branch connector	Black	PV-BRANCH-F	1SNV420183R0000	20	60.1

Main technical data

Connecting capacity	IEC	UL			
Maximum rated current 4 / 6 mm ² - 12 / 10 AWG	30 A	50 A	-		
Rated voltage	1000 V DC	1500 V DC			
Rated impulse voltage	12000 V	12000 V		:	
Protection (mated)	IP67		•	:	Ī
Ambient temperature range	-40 +90 °C		-	:	Ī
Upper limiting temperature	105 °C	•••••	•	:	Ī

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Assembly instructions





Tools

	Description	Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
1	Open-end spanners 2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.





Accessories

	Description		Color	Туре	Order code	Pkg	Weight
						qty	(1 pce) g
1	Sealing cap	For unmated female connectors	Black	PV-CAP-F	1SNV420164R0000	100	3.7
2	Sealing cap	For unmated male connectors		PV-CAP-M	1SNV420174R0000	100	2.8
3	Lock clip	Nec 2011 compliant	Black	PV-LOCK	1SNV420804R0000	100	2.14

Complete information available in the accessories section of the catalog.

MC4 and MC4-Evo2 manufactured by Multi-Contact All the technical data for UL standard and dimensions in inches are in italic.

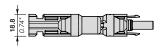
Example of PV modules in parallel thanks to branch connectors

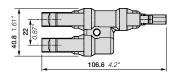
PV-BRANCH-M, PV branch connector Male





PV-BRANCH-M





Description

- For a safe and simple parallel or serial-parallel connection of PV modules,
- Highest performances on the market: 1000 V DC (IEC), 1500 V DC (UL),
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 250.

Ordering details

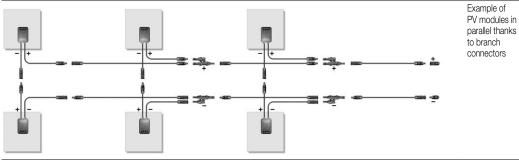
Description		Color	Туре	Order code	Р	kg	Weight
					qt	ty	(1 pce) g
Male	PV branch connector	Black	PV-BRANCH-M	1SNV420193R0000	21	0	61.9

Main technical data

Connecting capacity	IEC	UL				
Maximum rated current 4 / 6 mm² - 12 / 10 AWG	30 A	50 A	_			
Rated voltage	1000 V DC	1500 V DC				:
Rated impulse voltage	12000 V	12000 V				:
Protection (mated)	IP67	•••••				
Ambient temperature range	-40 +90 °C					
Upper limiting temperature	105 °C	•••••	·····			
All other data are provided as supplementary information only. For n	nore details, please co	onsult our certificates and	echnical datasheet a	vailable on ht	tp://www.AE	B.com
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All other data are provided	d as supple	ementary ir	nformation of	only. For mo	re details, p	lease consu	ult our certif	icates and t	echnical dat	tasheet avai	lable on http	o://www.AE	B.com	
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Assembly instructions





Tools

	Description	Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
1	Open-end spanners 2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1

Complete information available in the tools section of the catalog.





Accessories

_	Description		Color	Туре	Order code	Pkg	Weight
			:			qty	(1 pce) g
1	Sealing cap	For unmated male connectors	Black	PV-CAP-M	1SNV420174R0000	100	2.8
2	Sealing cap	For unmated female connectors		PV-CAP-F	1SNV420164R0000	100	3.7
3	Lock clip	Nec 2011 compliant	Black	PV-LOCK	1SNV420804R0000	100	2.14

MC4-Evo2 PV accessories



PV-CAP-F



PV-CAP-M

PV-CAP Sealing cap

Description

- Unmated connectors must be protected from moisture and dirt with a sealing cap,
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 258.

Ordering details

Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Sealing cap	For unmated female connectors	_		1SNV420164R0000		3.7
	For unmated male con- nectors			1SNV420174R0000	100	



PV-LOCK

PV-LOCK Lock clip

Description

- To secure the connection of MC4 panel receptacles and branch connectors (NEC 2011 compliant),
- The lock clip is already integrated in the plug connectors,
- Can be unlocked with the PV-SPANNER tool,
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 252.

Ordering details

Description		Color	Type	Order code	Pk	g Weight
					qty	(1 pce) g
Lock clip	Nec 2011 compliant	Black 🔳	PV-LOCK	1SNV420804R0000	10	0 2.14

MC4-Fvo2 PV tools



PV-SPANNER

PV-SPANNER Open-end spanners

Description

- To tighten the nuts of plug connectors and panel receptacles,
- To unlock the lock clip and MC4-Evo2 plug connectors (NEC 2011 compliant),
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 270.

Ordering details

Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Open-end spanners	2 in metal	Black-red	PV-SPANNER	1SNV420581R0000	1	307.1



PV-TIGHT-TOOL

PV-WRENCH wrench tool

Description

- To tighten plug connectors and panel receptacles (PV-TIGHT-TOOL),
- To secure the tightening of panel receptacles (PV-SECU-TOOL),
- Full compatibility with all Multi-Contact MC4 family products,
- Use the tools specified by ABB and Multi-Contact to guarantee the connection quality and reliability,
- User manual MA 275.



PV-SECU-TOOL

Ordering details

Description		Color	Type	Order code	I	Pkg	Weight
					c	qty	(1 pce) g
Wrench tool	To tighten	Grey 🔲	PV-TIGHT-TOOL	1SNV420061R0000	1	1	123.5
	To secure	Black	PV-SECU-TOOL	1SNV420261R0000	1	1	12.9



PV-CRIMP-PLUG





PV-INSERT

PV-CRIMP crimping tool

Description

- For an easy and safe preparation of crimped contacts and cables,
- Crimping tools suitable for 4 ... 6 mm² sections,
- Additional insert to be used for 10 mm² section,
- Crimping is an essential part of connectors' installation: use the crimping tool specified by ABB and Multi-Contact to guarantee the crimping quality and safety,
- User manual MA 251.

Ordering details

Ordonnig (Jotano					
Description		Color	Туре	Order code	Pkg	Weight
					qty	(1 pce) g
Crimping tool	For plug connectors 4 6 mm ²	Blue-black	PV-CRIMP-PLUG	1SNV420411R0000	1	735
	For panel receptacles 4 6 mm ²	; :	PV-CRIMP-RECEP	1SNV420191R0000	1	728
	Insert for plug connectors 10 mm ²	Black 📕	PV-INSERT	1SNV420421R0000	1	44

MC4 and MC4-Evo2 manufactured by Multi-Contact All the technical data for UL standard and dimensions in inches are in italic.

MC4-Evo2 PV connectors Ranges' compatibility

As ABB MC4-Evo2 connectors, accessories and tools are manufactured by Multi-Contact, they are fully compatible with Multi-Contact MC4 PV connectors.

				ABB range	Comp	patible with MC4 ran	nge (1)
						300 - 300	150 JF
Female	plug connec	tors cor	mpatibility	Female Plug connectors	Male Plug connectors	Male Panel receptacles	Male and Female Branch connectors
Dia. cable i	nsulation	Cross sec	ction		_ ^	_ ^	•¬ , >¬ _
mm	in	mm²	AWG)— 0	■—○		
4.7 6.1	0.18 0.24	4 6	12 10	PV-PLUG-F6/6.1	PV-KST4/6I-UR	PV-ADSP4-S2/6-UR	PV-AZB4 + PV-AZS4
6.1 7.6	0.24 0.29	4 6	12 10	PV-PLUG-F6/7.6	PV-KST4/6II-UR	PV-ADSP4-S2/6-UR	PV-AZB4 + PV-AZS4
7.6 8.5	0.29 0.33	4 6	12 10	PV-PLUG-F6/8.5	PV-KST4/6II-UR	PV-ADSP4-S2/6-UR	PV-AZB4 + PV-AZS4
7.6 8.5	0.29 0.33	10	8	PV-PLUG-F10/8.5	PV-KST4/8II-UR + PV-KST4/10II	PV-ADSP4-S2/6-UR	PV-AZB4 + PV-AZS4

⁽¹⁾ Check the compatibility between cable insulation diameters of both ranges

				ABB range	Con	npatible with MC4 ra	ange
				O STATE OF THE PARTY OF THE PAR			4500F
Male plu	g connecto	rs comp	atibility	Male Plug connectors	Female Plug connectors	Female Panel receptacles	Female and Male Branch connectors
Dia. cable in	sulation	Cross sec	tion	■—0) —0) —0)—_ _
mm	in	mm²	AWG		, 0	, ,	,
4.7 6.1	0.18 0.24	4 6	12 10	PV-PLUG-M6/6.1	PV-KBT4/6I-UR	PV-ADBP4-S2/6-UR	PV-AZB4 + PV-AZS4
6.1 7.6	0.24 0.29	4 6	12 10	PV-PLUG-M6/7.6	PV-KBT4/6II-UR	PV-ADBP4-S2/6-UR	PV-AZB4 + PV-AZS4
7.6 8.5	0.29 0.33	4 6	12 10	PV-PLUG-M6/8.5	PV-KBT4/6II-UR	PV-ADBP4-S2/6-UR	PV-AZB4 + PV-AZS4
7.6 8.5	0.29 0.33	10	8	PV-PLUG-M10/8.5	PV-KBT4/8II-UR + PV-KBT4/10II	PV-ADBP4-S2/6-UR	PV-AZB4 + PV-AZS4

(1) MC4 original to be replaced by MC4-Evo2 types end of 2016

 mm^2

4 ... 6



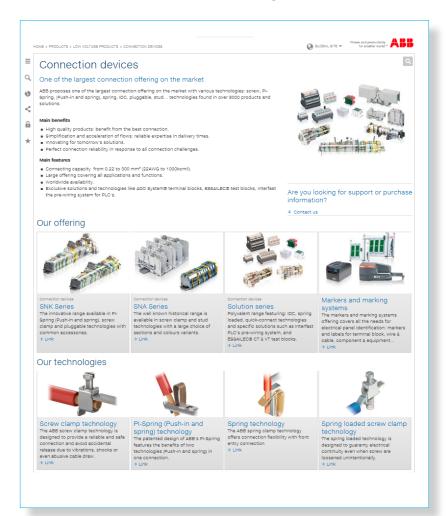
⁽¹⁾ MC4 original to be replaced by MC4-Evo2 types end of 2016

	ABB range	Compatible with MC4 range
Branch connectors compatibility	Female and Male Branch connectors	Female and Male Plug connectors
In / out	— —	>—○ ■—○
2 females / 1 male	PV-BRANCH-F	All plug references
2 males / 1 female	PV-BRANCH-M	All plug references

ISNC160240S0201

Marketing material

http://new.abb.com/low-voltage/connection





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Tools



For product detailed information, use product type or order code, ex: www.abb.com/productdetails/ZS4 or www.abb.com/productdetails/1SNK505010R0000



 $\begin{tabular}{ll} \textbf{Cadenas portal:} Download 2D or 3D files according to your needs (STEP, IGES...) \end{tabular}$





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