

# Original MC4-Evo 2

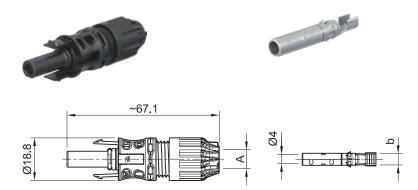
### Renewable Energy | Solar Photovoltaics

ΕN

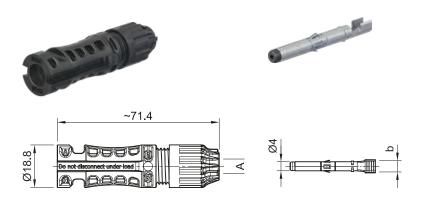


Female and male cable coupler as individual part (including insulating part)

PV-KBT4-EVO 2A/...



PV-KST4-EVO 2A/...





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Assembly instructions see MA298



Internationally certified with IEC, UL, JET, cTÜVus. Approved for DC 1500 V (IEC, JET), DC 1500 V (UL) unrestricted access. MULTILAM Technology, has proven the

quality and durability several 100 million times since 2004. Suited for all climatic environments due to UV resistance, ammonia and high IP degree. Available as a field and preassembled connector, standard crimping tools can be used. Mating compatibility with MC4 connector family.

Technical data	
Connector system	Ø 4 mm
Ambient temperature range	-40 °C +85 °C (IEC/UL)
Transportation/storage temperature range	-30 °C/+60 °C
Transportation/storage relative humidity	< 70 %
Upper limiting temperature	115 °C (IEC)
Degree of protection, mated	IP65/IP68 (1 m, 1 h)
Degree of protection, unmated	IP2X
Overvoltage category	III
Contact resistance of plug connectors	$< 0.2 \ \text{m}\Omega$
Locking system	Locking type
Class (IEC)	II
Contact system	MULTILAM
Type of termination	Crimping
Warning	Do not disconnect under load
Contact material	Copper, tin plated
Insulation material	PA
Flame class	UL94-V0
Ammonia resistance (TÜV Rheinland certified acc. to 2 PfG 1911/03.2011)	Q60139020-0001
TÜV-Rheinland certified according to IEC 62852:2014+Amd.1:2020	R 60127169
UL recognized component in accordance with UL6703	E343181
Maximum altitude above sea level for operation	5000 m
Temperature Level according to IEC TS 63126	Level 2



Female and male cable coupler as individual part (including insulating part)

Order No.	Туре	Socket	Plug	Outer diameter of cable	Width of crimp opening	IEC 62852		UL 6703			-	Approvais	
				A (mm)	b (mm)	mm²	DC V	A	AWG	DC V	A	TÜV Rheinland	UR
32.0310P0001	PV-KBT4-EVO 2A/2.5I	х		4.7-6.4	4	2.5	1500	39				Х	x
						2.5	1500	39	14	1500	30		
32.0311P0001	PV-KST4-EVO 2A/2.5I		х	4.7-6.4	4	2.0	1300	09	14	1500	30	x	х
00 00400004	DV VDTA EVO OA /O EV			5070	4	2.5	1500	39					
32.0312P0001	PV-KBT4-EVO 2A/2.5X	Х		5.9-7.3	4				14	1500	30	X	Х
32.0313P0001	PV-KST4-EVO 2A/2.5X		х	5.9-7.3	4	2.5	1500	39				x	x
						0.5	4500	00	14	1500	30		
32.0314P0001	PV-KBT4-EVO 2A/2.5II	х		6.4-8.4	4	2.5	1500	39	14	1500	30	x	х
						2.5	1500	39	17	1500	00		
32.0315P0001	PV-KST4-EVO 2A/2.5II		Х	6.4-8.4	4				14	1500	30	Х	Х
						4	1500	45					
32.0316P0001	PV-KBT4-EVO 2A/6I	х		4.7-6.4	5.8	6	1500	53				x	x
02.00101 0001	TV RDI4 EVO ZAVOI	^		4.7 0.4	5.0				12	1500	35	^	^
									10	1500	50		
						4	1500	45					
32.0317P0001	PV-KST4-EVO 2A/6I		х	4.7-6.4	5.8	6	1500	53	12	1500	35	x	х
									10	1500	50		
						4	1500	45		.555			
00 00405004	DV VDTA EVO SA (SV			5070	F. C	6	1500	53					
32.0318P0001	PV-KBT4-EVO 2A/6X	Х		5.9-7.3	5.8				12	1500	35	х	X
								10	1500	50			
						4	1500	45					
32.0319P0001	PV-KST4-EVO 2A/6X		x	5.9-7.3	5.8	6	1500	53				х	х
	1 V-NOT4-EVO 2/VON X 3.3-	3.8-7.3	5.8				12	1500	35				
						10	1500	50					

### Note:

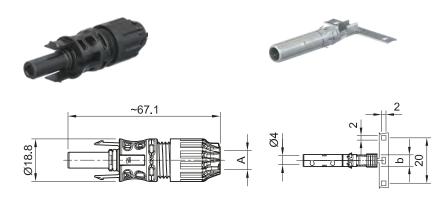
For detailed information concerning the suitable cable gland range, please consult MA298.



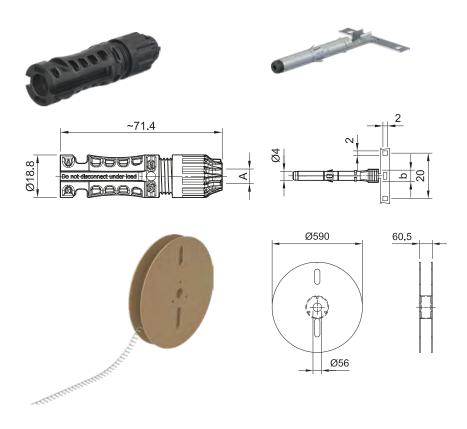
Order No.	Туре	Socket	Plug	Outer diameter of cable	Width of crimp opening	IEC 62852		UL 6703				Approvais	
				A (mm)	b (mm)	mm²	DC V	A	AWG	DC V	A	TÜV Rheinland	UR
32.0320P0001	PV-KBT4-EVO 2A/6II	х		6.4-8.4	5.8	6	1500 1500	45 53	12	1500	35	x	x
32.0321P0001	PV-KST4-EVO 2A/6II		x	6.4-8.4	5.8	6	1500 1500	45 53	12	1500	35	×	x
32.0322P0001	PV-KBT4-EVO 2A/10X	х		5.9-7.3	6.5	10	1500	69	10	1500	70	х	х
32.0323P0001	PV-KST4-EVO 2A/10X		х	5.9-7.3	6.5	10	1500	69	8	1500	70	x	х
32.0324P0001	PV-KBT4-EVO 2A/10II	х		6.4-8.4	6.5	10	1500	69	8	1500	70	х	х
32.0325P0001	PV-KST4-EVO 2A/10II		х	6.4-8.4	6.5	10	1500	69	8	1500	70	х	×

### Contacts on carrier band (including insulating part)

PV-KBT4-EVO 2A/...



PV-KST4-EVO 2A/...





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Assembly instructions see MA298



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Technical data	
Connector system	Ø 4 mm
Ambient temperature range	-40 °C +85 °C (IEC) -40 °C +90 °C (UL)
Transportation/storage temperature range	-30 °C/+60 °C
Transportation/storage relative humidity	< 70 %
Upper limiting temperature	115 °C
Degree of protection, mated	IP65/IP68 (1 m, 1 h)
Degree of protection, unmated	IP2X
Overvoltage category	III
Contact resistance of plug connectors	$< 0.2 \text{ m}\Omega$
Locking system	Locking type
Class (IEC)	II
Contact system	MULTILAM
Type of termination	Crimping
Warning	Do not disconnect under load
Contact material	Copper, tin plated
Insulation material	PA
Flame class	UL94-V0
Ammonia resistance (TÜV Rheinland certified acc. to 2 PfG 1911/03.2011)	Q60139020-0001
TÜV-Rheinland certified according to IEC 62852:2014+Amd.1:2020	R 60127169
UL recognized component in accordance with UL6703	E343181
Maximum altitude above sea level for operation	5000 m
Temperature Level according to IEC TS 63126	Level 2



### Contacts on carrier band (including insulating part)

Order No.	Туре	Socket	Plug	Outer diameter of cable	Width of crimp opening	IEC 62852		UL 6703			Contacts per reel		Approvais																			
				A (mm)	b (mm)	mm²	DC V	A	AWG	DC V	Α		TÜV Rheinland	UR																		
32.0310P2000	PV-KBT4-EVO 2A/2.5I	х		4.7-6.4	4.0	2.5	1500	39	1.4	1500	30	2000	х	Х																		
						2.5	1500	39	14	1500	30																					
32.0311P2000	PV-KST4-EVO 2A/2.5I		Х	4.7-6.4	4.0				14	1500	30	2000	X	X																		
32.0312P2000	PV-KBT4-EVO 2A/2.5X	х		5.9-7.3	4.0	2.5	1500	39	14	1500	30	2000	x	х																		
32.0313P2000	PV-KST4-EVO 2A/2.5X		х	5.9-7.3	4.0	2.5	1500	39	14	1500	30	2000	x	x																		
32.0314P2000	PV-KBT4-EVO 2A/2.5II	х		6.4-8.4	4.0	2.5	1500	39	14	1500	30	2000	х	х																		
32.0315P2000	PV-KST4-EVO 2A/2.5II		х	6.4-8.4	4.0	2.5	1500	39	14	1500	30	2000	х	х																		
						4	1500	45																								
32.0316P2000	PV-KBT4-EVO 2A/6I	х		4.7-6.4	5.8	6	1500	53				2000	х	х																		
									12 10	1500 1500	35 50																					
						4	1500	45	10	1300	30																					
00 004=0000	DV 1/OT4 EVO 04/01			4704		6	1500	53				0000																				
32.0317P2000	PV-KST4-EVO 2A/6I		Х	4.7-6.4	5.8				12	1500	35	2000	Х	X																		
									10	1500	50																					
						4	1500	45																								
32.0318P2000	PV-KBT4-EVO 2A/6X	х		5.9-7.3	5.8	6	1500	53				2000	x	х																		
	FV-ND14-EVO 2A/0A X 5.9-7.3						12	1500	35																							
						4	1500	15	10	1500	50																					
	<b>2000</b> PV-KST4-EVO 2A/6X x 5.9-7				6	1500 1500	45 53																									
32.0319P2000		5.9-7.3	5.9-7.3	5.9-7.3 5.8	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.9-7.3	5.8		1000		12	1500	35	2000	x
									10	1500	50																					

### Note:

For more detailed information concerning the suitable cable gland range, please consult MA298.



Order No.	Туре	Socket	Plug	Outer diameter of cable	Width of crimp opening	IEC 62852		IEC 62852 UL 6703			Contacts per reel		Approvais								
				A (mm)	b (mm)	mm²	DC V	A	AWG	DC V	A		TÜV Rheinland	H.							
				6.4-8.4	6.4-8.4		4	1500	45					x							
32.0320P2000	PV-KBT4-EVO 2A/6II	A/6II x 6.4-8.4	6.4-8.4			5.8	6	1500	53				2000		Х						
<b>5</b> 05_0550									12	1500	35	2000		Α							
									10	1500	50										
				x 6.4-8.4		4	1500	45													
32.0321P2000	PV-KST4-EVO 2A/6II		Х		6.4-8.4	6.4-8.4	5.8	6	1500	53	12	1500	35	2000	х	х					
									10	1500	50										
						10	1500	69	10	1500	30										
32.0322P1500	PV-KBT4-EVO 2A/10X	Х		5.9-7.3	6.5	5			8	1500	70	1500	Х	Х							
						10	1500	69													
32.0323P1500	PV-KST4-EVO 2A/10X		Х	5.9-7.3	6.5				8	1500	70	1500	Х	Х							
32.0324P1500	PV-KBT4-EVO 2A/10II	х		6.4-8.4	6.5	10	1500	69				1500	х	х							
32.0324F 1300	1 V-ND14-LVO 2AV 1011	۸		0.4-0.4	0.5				8	1500	70	1300	^	^							
32.0325P1500	PV-KST4-EVO 2A/10II		Х	6 4-8 4	6.4-8.4	6.4-8.4	6.4-8.4	6.4-8.4	6.4-8.4	6.4-8.4	6.4-8.4	6.5	10	1500	69				1500	x	x
			,	3	2.0				8	1500	70	.000	,	,							

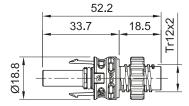
### Female and male panel receptacle MC4-Evo 2

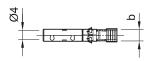
Female and male panel receptacles as individual part (including insulating part)

PV-ADB4-EVO 2A/...





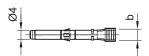




### PV-ADS4-EVO 2A/...









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Assembly instructions see MA713



MC4-Evo 2 panel-receptacle connectors are the interface between the inverter or the distributor housing and string. Assembly directly via the threads or in the perforated plate with the plastic nut (contained in scope of delivery). Thanks to the D-shape thread the connection is secured against twisting. For 1500 DC V (IEC), 1500 DC V (UL) approved without constraints. Degree of protection IP65/IP68 (1 m, 1 h) guarantees

highest connection safety. Fast and clean connection. Plug compatible with the original MC4 plug connector family. With preassembled flat seal.

Technical data	
Connector system	Ø 4 mm
Ambient temperature range	-40 °C+85 °C (IEC) -40 °C+90 °C (UL)
Upper limiting temperature	115 °C
Degree of protection, mated	IP65/IP68 (1 m, 1 h)
Degree of protection, unmated	IP2X
Overvoltage category	III
Locking system	Locking type
Contact system	MULTILAM
Type of termination	Crimping
Contact material	Copper, tin plated
Insulation material	PA
Flame class	UL94-V0
TÜV Rheinland certified according to IEC 62852:2014+Amd.1:2020	R 60127171
UL recognized component in accordance with UL6703	E343181
Maximum altitude above sea level for operation	5000 m
Temperature level according to IEC TS 63126	Level 2

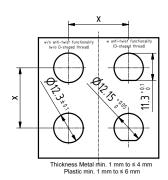
Туре	Socket	Plug	Width of crimp opening	IEC 62852		UL 6703			Approvals		
			b (mm)	mm²	DC V	A	AWG	DC V	A	TÜV Rheinland	UR
PV-ADB4-EVO 2A/2.5	х		4.0	2.5	1500	32	1/	1500	30	х	х
			4.0	2.5	1500	32	14	1300	30		
PV-ADS4-EVO 2A/2.5		Х					14	1500	30	Х	Х
				4	1500	42					
PV-ADB4-EVO 2A/6	Х		5.8	6	1500	47				х	х
				Δ	1500	42	10	1500	50		
				6	1500	47					
PV-ADS4-EVO 2A/6		Х	5.8				12	1500	35	X	Х
							10	1500	50		
PV-ADB4-EVO 2A/10	х		6.5	10	1500	62				x	
					4500		8	1500	70		Х
PV-ADS4-EVO 2A/10		х	6.5	10	1500	62	Q	1500	70	x	х
	PV-ADB4-EVO 2A/2.5  PV-ADS4-EVO 2A/2.5  PV-ADB4-EVO 2A/6  PV-ADS4-EVO 2A/6  PV-ADB4-EVO 2A/10	PV-ADB4-EVO 2A/2.5 x  PV-ADS4-EVO 2A/2.5  PV-ADB4-EVO 2A/6 x  PV-ADS4-EVO 2A/6  PV-ADB4-EVO 2A/10 x	PV-ADB4-EVO 2A/2.5	b (mm)         PV-ADB4-EVO 2A/2.5       x       4.0         PV-ADS4-EVO 2A/2.5       x       4.0         PV-ADB4-EVO 2A/6       x       5.8         PV-ADS4-EVO 2A/6       x       5.8         PV-ADB4-EVO 2A/10       x       6.5	b (mm)       mm²         PV-ADB4-EVO 2A/2.5       x       4.0         PV-ADS4-EVO 2A/2.5       x       4.0         4       6         PV-ADB4-EVO 2A/6       x       5.8         4       6         PV-ADS4-EVO 2A/6       x       5.8         4       6         -       -         4       6         -       -         10       -	b (mm) mm² DC V  PV-ADB4-EVO 2A/2.5	PV-ADB4-EVO 2A/2.5	b (mm) mm² DC V A AWG  PV-ADB4-EVO 2A/2.5	b (mm) mm² DC V A AWG DC V  PV-ADB4-EVO 2A/2.5	Double   D	PV-ADB4-EVO 2A/2.5   X   4.0   2.5   1500   32   32   32   32   32   33   34   34

#### Note:

For more detailed information concerning the suitable cable gland range, please consult MA713

#### Note

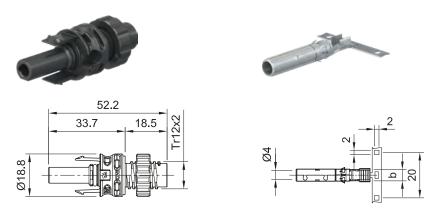
When using panel receptacles in housings (e.g. inverter maker) confirm that the minimum plastic wall thickness shall be between 1 mm and 6 mm; on metal housings, wall thickness shall be between 1 mm and 4 mm. In case of wall thickness undercut or exceedance, the panel receptacle usage in the end-application has to be verified by the installer.



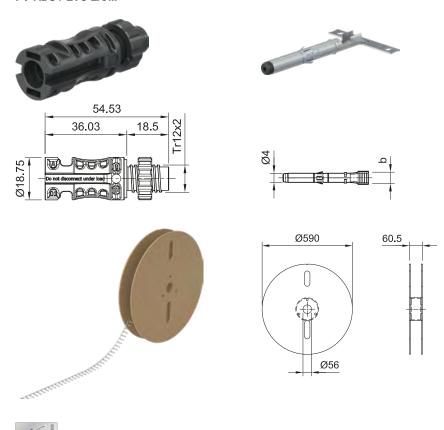
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### Contacts on carrier band (including insulating part)

PV-ADB4-EVO 2A/...



### PV-ADS4-EVO 2A/...



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Ambient temperature range	-40 °C+85 °C (IEC) -40 °C+90 °C (UL)
Upper limiting temperature	115 °C
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Degree of protection, unmated	IP2X
Overvoltage category	III
Locking system	Locking type
Contact system	MULTILAM
Type of termination	Crimping
Contact material	Copper, tin plated
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Flame class	UL94-V0
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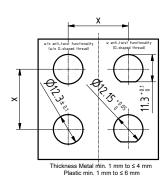
Order No.	Туре	Socket	Plug	Width of crimp opening	IEC 62852			UL 6703			Contacts per reel	Approvals	
				b (mm)	mm²	DC V	A	AWG	DC V	A		TÜV Rheinland	UR
32.0344P2000	PV-ADB4-EVO 2A/2.5	х		4.0	2.5	1500	32	14	1500	30	2000	x	x
32.0345P2000	PV-ADS4-EVO 2A/2.5		х	4.0	2.5	1500	32	14	1500	30	2000	х	х
32.0346P2000	PV-ADB4-EVO 2A/6	х		5.8	6	1500 1500	42 47	12 10	1500 1500	35 50	2000	x	х
32.0347P2000	PV-ADS4-EVO 2A/6		x	5.8	6	1500 1500	42 47	12	1500 1500	35 50	2000	x	х
32.0352P1500	PV-ADB4-EVO 2A/10	х		6.5	10	1500	62	8	1500	70	1500	х	х
32.0353P1500	PV-ADS4-EVO 2A/10		x	6.5	10	1500	62	8	1500	70	1500	х	х

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