FAST MOVING TECHNOLOGY



Original MC4-Evo 2

Solarline | Connectors for renewable energy



ΕN

Female and male cable coupler MC4-Evo 2

Female and male cable coupler as individual part (including insulating part) PV-KBT4-EVO 2A/...



PV-KST4-EVO 2A/...





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MA

Assembly instructions see MA298

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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 class (IP68). 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/Pollution degree	CAT III/3
Contact resistance of plug connectors	< 0.2 mΩ
Locking system	Locking type
Safety 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 MC4-Evo 2

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

Order No.	Type	Socket	Plug	Outer diameter of cable	Width of crimp opening	IEC 62852			NL 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	x		4.7-6.4	4	2.5	1500	39	14	1500	30	х	x												
						2.5	1500	39	14	1500	30														
32.0311P0001	PV-KST4-EVO 2A/2.5I		х	4.7-6.4	4				14	1500	30	х	х												
32.0312P0001	PV-KBT4-EVO 2A/2.5X	x		6.1-7.3	4	2.5	1500	39	14	1500	00	х	x												
						2.5	1500	39	14	1500	30														
32.0313P0001	PV-KST4-EVO 2A/2.5X		х	6.1-7.3	4				14	1500	30	x	х												
32.0314P0001	PV-KBT4-EVO 2A/2.5II	x		6.4-8.4	4	2.5	1500	39	14	1500	20	х	x												
						2.5	1500	39	14	1500	30														
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	x		4.7-6.4	5.8	6	1500	53	40	4500	05	x	x												
									12 10	1500 1500	35 50														
						4	1500	45	10	1000	00														
32.0317P0001	PV-KST4-EVO 2A/6I		x	4.7-6.4	5.8	6	1500	53				х	x												
52.051770001	1 1-1014-200 2700		^	4.7-0.4	5.0				12	1500	35	^	^												
						4	1500	45	10	1500	50														
						4 6	1500	45 53																	
32.0318P0001	PV-KBT4-EVO 2A/6X	х		6.1-7.3	5.8				12	1500	35	х	х												
							10	1500	50																
						4	1500	45																	
32.0319P0001	PV-KST4-EVO 2A/6X		x	x 6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	6.1-7.3	5.8	6	1500	53	12	1500	35	х	x
										10	1500	50													

Note:

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

Order No.	Type	Socket	Socket Plug Outer diameter of cable Width of crimp opening opening UL 6703				IEC 62852			-	Approvais		
				A (mm)	b (mm)	mm²	DC V	A	AWG	DC V	A	TÜV Rheinland	UR
32.0320P0001	PV-KBT4-EVO 2A/6II	x		6.4-8.4	5.8	4 6	1500 1500	45 53	12 10	1500 1500	35 50	x	x
32.0321P0001	PV-KST4-EVO 2A/6II		x	6.4-8.4	5.8	4	1500 1500	45 53	12 10	1500 1500	35 50	x	x
32.0322P0001	PV-KBT4-EVO 2A/10X	x		6.1-7.3	6.5	10	1500	69	8	1500	70	x	x
32.0323P0001	PV-KST4-EVO 2A/10X		x	6.1-7.3	6.5	10	1500	69	8	1500	70	x	x
32.0324P0001	PV-KBT4-EVO 2A/10II	x		6.4-8.4	6.5	10	1500	69	8	1500	70	x	x
32.0325P0001	PV-KST4-EVO 2A/10II		x	6.4-8.4	6.5	10	1500	69	8	1500	70	x	x

Female and male cable coupler MC4-Evo 2

Contacts on carrier band (including insulating part)

PV-KBT4-EVO 2A/...



PV-KST4-EVO 2A/...









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ШMА

Assembly instructions see MA298

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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 class (IP68). 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) -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/Pollution degree	CAT III/3
Contact resistance of plug connectors	< 0.2 mΩ
Locking system	Locking type
Safety 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 MC4-Evo 2

Contacts on carrier band (including insulating part)

н х х
x
Х
x
x
x
x
х
Х
х
х

Note:

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

Order No.	Type	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	A		TÜV Rheinland	UR					
						4	1500	45											
32.0320P2000	PV-KBT4-EVO 2A/6II	х		6.4-8.4	5.8	6	1500	53				2000	х	x					
									12	1500	35								
							1500		10	1500	50								
				6.4-8.4		4 6	1500	45											
32.0321P2000	PV-KST4-EVO 2A/6II		х		6.4-8.4	5.8	0	1500	53	12	1500	35	2000	х	x				
									10	1500	50								
						10	1500	69	10	1000	00								
32.0322P1500	PV-KBT4-EVO 2A/10X	х		6.1-7.3	6.5				8	1500	70	1500	х	х					
00 000004500				0470	0.5	0.5	0.5	0.5	0.5		10	1500	69				1500		
32.0323P1500	PV-KST4-EVO 2A/10X		х	6.1-7.3	6.5				8	1500	70	1500	х	х					
32.0324P1500	PV-KBT4-EVO 2A/10II	x		6.4-8.4	6.5	10	1500	69				1500	х	x					
		^		6.4-8.4	0.0				8	1500	70	1000	~	~					
32.0325P1500	PV-KST4-EVO 2A/10II		х	6.4-8.4	6.5	10	1500	69				1500	x	x					
									8	1500	70								

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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MA

Assembly instructions see MA299 and MA713

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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 IP68 (1 m, 1 h) guarantees highest connec-

tion 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/Pollution degree	CAT III/3
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

Female and male panel receptacle MC4-Evo 2

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

Order No.	Type	Socket	Plug	Width of crimp opening	IEC 62852			NL 6703			Approvals	:
				b (mm)	mm²	DC V	A	AWG	DC V	A	TÜV Rheinland	UR
32.0286P0001	PV-ADB4-EVO 2A/2.5	х		4.0	2.5	1500	32	14	1500	30	x	x
					2.5	1500	32	14	1500	30		
32.0287P0001	PV-ADS4-EVO 2A/2.5		х	4.0				14	1500	30	х	х
					4	1500	42					
32.0288P0001	PV-ADB4-EVO 2A/6	x		5.8	6	1500	47				x	x
								12	1500	35		
					4	1500	42	10	1500	50		
					4	1500	42					
32.0289P0001	PV-ADS4-EVO 2A/6		х	5.8				12	1500	35	х	х
								10	1500	50		
32.0290P0001	PV-ADB4-EVO 2A/10	x		6.5	10	1500	62				х	x
		~		0.0				8	1500	70	~	~
32.0291P0001	PV-ADS4-EVO 2A/10		x	6.5	10	1500	62	0	4500	70	x	x
								8	1500	70		

Note:

For more detailed information concerning the suitable cable gland range, please consult MA299. The article numbers on this page are subject to phase-out up until Aug 2023.

Note

When using panel receptacles in housings (e.g. inverter maker) confirm that the minimum plastic wall thickness shall be between 2 mm and 6 mm; on metal housings, wall thickness shall be between 2 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.



Order No.	Type	Socket	Plug	Width of crimp opening	IEC 62852		L 6703				Approvals	
				b (mm)	mm²	DC V	A	AWG	DC V	A	TÜV Rheinland	UR
32.0344P0001	PV-ADB4-EVO 2A/2.5	x		4.0	2.5	1500	32	14	1500	30	x	x
32.0345P0001	PV-ADS4-EVO 2A/2.5		x	4.0	2.5	1500	32	14	1000	00	x	x
02.00101 0001			~	4.0				14	1500	30	~	~
					4	1500	42					
32.0346P0001	PV-ADB4-EVO 2A/6	х		5.8	6	1500	47				х	x
								12	1500	35		
					4	1500	42	10	1500	50		
					4	1500	42					
32.0347P0001	PV-ADS4-EVO 2A/6		х	5.8	0	1000		12	1500	35	х	х
								10	1500	50		
32.0352P0001	PV-ADB4-EVO 2A/10	v		6 5	10	1500	62				Y	X
32.033220001	FV-AUD4-EVU 2AV IU	х		6.5				8	1500	70	х	х
32.0353P0001	PV-ADS4-EVO 2A/10		x	6.5	10	1500	62				x	x
			~	0.0				8	1500	70	~	~

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.



Female and male panel receptacle MC4-Evo 2

Contacts on carrier band (including insulating part)

PV-ADB4-EVO 2A/...







PV-ADS4-EVO 2A/...











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MA

Assembly instructions see MA299 and MA713

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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 IP68 (1 m, 1 h) guarantees highest connec-

tion 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/Pollution degree	CAT III/3
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

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Female and male panel receptacle MC4-Evo 2

Contacts on carrier band (including insulating part)

Order No.	Type	Socket	Plug	Width of crimp opening	IEC 62852			IEC 62852			Contacts per reel	Approvals	
				b (mm)	mm²	DC V	A	AWG	DC V	A		TÜV Rheinland	UR
32.0286P2000	PV-ADB4-EVO 2A/2.5	x		4.0	2.5	1500	32	14	1500	30	2000	x	x
32.0287P2000	PV-ADS4-EVO 2A/2.5		x	4.0	2.5	1500	32	14	1500	30	2000	x	x
32.0288P2000	PV-ADB4-EVO 2A/6	x		5.8	4 6	1500 1500	42 47	12 10	1500 1500	35 50	2000	x	x
32.0289P2000	PV-ADS4-EVO 2A/6		x	5.8	4	1500 1500	42 47	12 10	1500 1500	35 50	2000	x	x
32.0290P1500	PV-ADB4-EVO 2A/10	x		6.5	10	1500	62	8	1500	70	1500	x	x
32.0291P1500	PV-ADS4-EVO 2A/10		x	6.5	10	1500	62	8	1500	70	1500	x	x

Note:

For more detailed information concerning the suitable cable gland range, please consult MA299. The article numbers on this page are subject to phase-out up until Aug 2023.

Note

When using panel receptacles in housings (e.g. inverter maker) confirm that the minimum plastic wall thickness shall be between 2 mm and 6 mm; on metal housings, wall thickness shall be between 2 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.



Order No.	Type	Socket	Plug	Width of crimp opening	IEC 62852				NL 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		4500	00	2000	x	x
				4.0	2.5	1500	32	14	1500	30			
32.0345P2000	PV-ADS4-EVO 2A/2.5		х	4.0				14	1500	30	2000	х	х
					4	1500	42						
32.0346P2000	PV-ADB4-EVO 2A/6	x		5.8	6	1500	47	10			2000	x	x
								12 10	1500 1500	35 50			
					4	1500	42	10	1500	50			
					6	1500	47						
32.0347P2000	PV-ADS4-EVO 2A/6		х	5.8				12	1500	35	2000	x	х
								10	1500	50			
32.0352P1500	PV-ADB4-EVO 2A/10	х		6.5	10	1500	62				1500	x	x
				0.0	10	1500		8	1500	70			
32.0353P1500	PV-ADS4-EVO 2A/10		x	6.5	10	1500	62	8	1500	70	1500	x	x
								0	1300	10			

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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