

# Original MC4

**Renewable Energy | Solar Photovoltaics**

EN



# Female and male cable coupler MC4

As individual part with open crimp contact (including insulating part)



Female cable coupler PV-KBT4...



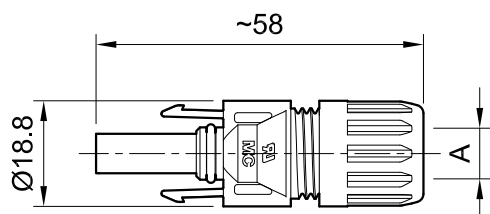
Male cable coupler PV-KST4...

- In accordance with NEC 2023, requires a tool to open.
- Proven MULTILAM technology with high long-term stability, which ensures consistently low performance loss throughout the entire service life of the plug connector.
- Approved for DC 1000 V (IEC) and DC 1500 V (UL).
- Tried and tested plug connectors, over 25 years of experience in the field.
- Available for assembly with cross-sections up to 10 mm<sup>2</sup>.
- Also available as ready made leads according to customer's specification.
- To be used with suitable mated connectors from the MC4 product family and suitable lead.

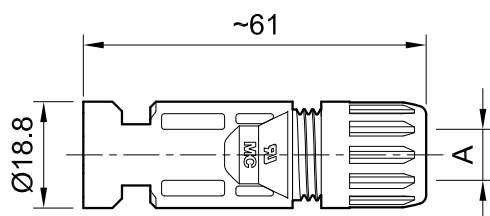
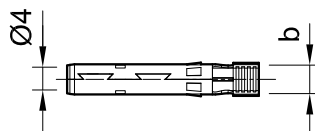
## Technical data

Technical data	
Ambient temperature range	-40 °C...+85 °C (TÜV/UL)
Upper limiting temperature	105 °C
Degree of protection, mated	IP65/IP68 (1 m, 168 h)
Degree of protection, unmated	IP2X
Degree of pollution	3
Max. contact resistance of the connector	0.25 mΩ
Rated Impulse Voltage	16 kV
Contact system	MULTILAM
Type of connection	Crimping
Contact material	Copper, tin plated
Insulation material	PC/PA
Locking system	Locking Type
Fire protection class	UL94:V-0
Ammonia resistance (acc. to DLG)	yes
Salt mist spray test, degree of severity 6	yes
TÜV Rheinland certifications number	R 60127190
TÜV Rheinland 2 PFG 2330	R 60087448
UL-File number	E343181
CSA number of certificate	250725
CQC number of certificate	CQC20024256431
JET number of certificate	B19T0013

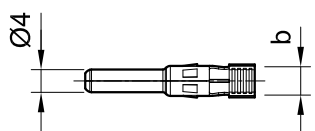
## Dimensional drawings



Female cable coupler PV-KBT4...



Male cable coupler PV-KST4...



## Ordering information

Order No.	Type	Socket	Plug	Outer diameter of cable	Width of crimp opening	IEC 62852			UL 6703			Approvals				
						mm <sup>2</sup>	DC V	A	AWG	DC V	A	TÜV	UR	CSA	CQC	JET
32.0010P0001-UR	PV-KBT4/2,5I-UR	x		5.0 – 6.0	4.0	2.5	1000	22.5				x	x	x		x
									14	1500	30					
32.0011P0001-UR	PV-KST4/2,5I-UR		x	5.0 – 6.0	4.0	2.5	1000	22.5				x	x	x		x
									14	1500	30					
32.0140P0001-UR	PV-KBT4/2,5X-UR	x		5.5 – 7.4	4.0	2.5	1000	22.5				x	x			x
									14	1500	30					
32.0141P0001-UR	PV-KST4/2,5X-UR		x	5.5 – 7.4	4.0	2.5	1000	22.5				x	x			x
									14	1500	30					
32.0012P0001-UR	PV-KBT4/2,5II-UR	x		5.9 – 8.8	4.0	2.5	1000	22.5				x	x	x	x	x
									14	1500	30					
32.0013P0001-UR	PV-KST4/2,5II-UR		x	5.9 – 8.8	4.0	2.5	1000	22.5				x	x	x	x	x
									14	1500	30					
32.0014P0001-UR	PV-KBT4/6I-UR	x		5.0 – 6.0	5.8	4	1000	39				x	x	x		x
						6	1000	39								
									12	1500	35					
									10	1500	50					
32.0015P0001-UR	PV-KST4/6I-UR		x	5.0 – 6.0	5.8	4	1000	39				x	x	x		x
						6	1000	39								
									12	1500	35					
									10	1500	50					
32.0142P0001-UR	PV-KBT4/6X-UR	x		5.5 – 7.4	5.8	4	1000	39				x	x			x
						6	1000	39								
									12	1500	35					
									10	1500	50					
32.0143P0001-UR	PV-KST4/6X-UR		x	5.5 – 7.4	5.8	4	1000	39				x	x			x
						6	1000	39								
									12	1500	35					
									10	1500	50					
32.0016P0001-UR	PV-KBT4/6II-UR	x		7.0 – 8.8	5.8	4	1000	39				x	x	x	x	x
						6	1000	39								
									12	1500	35					
									10	1500	50					

Order No.	Type	Socket	Plug	Outer diameter of cable	Width of crimp opening	IEC 62852			UL 6703			Approvals				
						mm <sup>2</sup>	DC V	A	AWG	DC V	A	TÜV	UR	CSA	CQC	JET
32.0017P0001-UR	PV-KST4/6II-UR		x	7.0 – 8.8	5.8	4	1000	39				x	x	x	x	x
						6	1000	39								
									12	1500	35					
								10	1500	50						
32.0034P0001	PV-KBT4/10II	x		7.0 – 8.8	6.5	10	1000	45				x				x
32.0035P0001	PV-KST4/10II		x	7.0 – 8.8	6.5	10	1000	45				x				x

**Note:**

For more detailed information concerning the suitable cable gland range, please consult corresponding assembly instructions (see “Further information”).

**Note:**

Unmated connectors must be protected from any contamination using Stäubli sealing caps. For ordering information concerning Stäubli sealing caps, please consult corresponding catalog (see “Further information”).

## Further information



**Female and male cable coupler with barrel crimp contacts**

For cable coupler with barrel crimp contacts, please consult:  
[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Catalog → **Cable coupler with barrel crimp contacts**



**Tools and accessories**

For related Stäubli tools and accessories please consult:  
[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Catalog → **Tools and accessories**



**Assembly instructions**

For assembly instructions for “Female and male cable coupler MC4” please consult:  
[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Assembly info → **MA231**

# Female and male cable coupler MC4

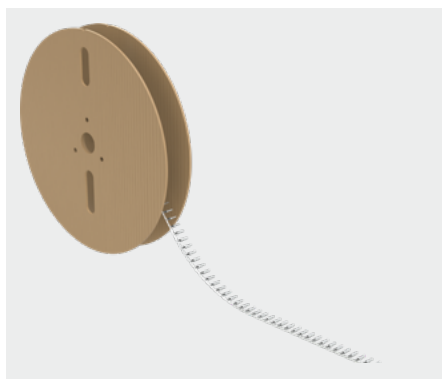
## Open crimp contacts on carrier band (including insulating part)



Female cable coupler PV-KBT4...



Male cable coupler PV-KST4...



Reel with contacts

- In accordance with NEC 2023, requires a tool to open.
- Proven MULTILAM technology with high long-term stability, which ensures consistently low performance loss throughout the entire service life of the plug connector.
- Approved for DC 1000 V (IEC) and DC 1500 V (UL).
- Tried and tested plug connectors, over 25 years of experience in the field.
- Available for assembly with cross-sections up to 10 mm<sup>2</sup>.
- To be used with suitable mated connectors from the MC4 product family and suitable lead.
- Also available as ready made leads according to customer's specification.

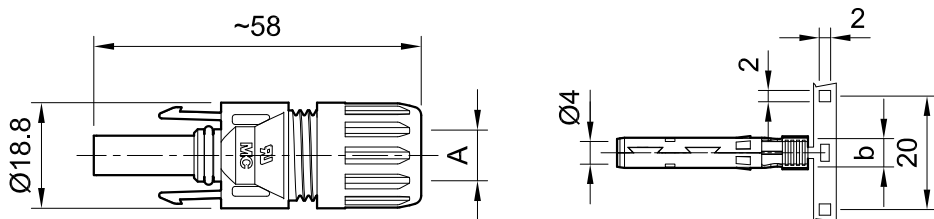
## Technical data

Technical data	
Ambient temperature range	-40 °C...+85 °C (TÜV/UL)
Upper limiting temperature	105 °C
Degree of protection, mated	IP65/IP68 (1 m, 168 h)
Degree of protection, unmated	IP2X
Degree of pollution	3
Max. contact resistance of the connector	0.25 mΩ
Rated Impulse Voltage	16 kV
Contact system	MULTILAM
Type of connection	Crimping
Contact material	Copper, tin plated
Insulation material	PC/PA
Locking system	Locking Type

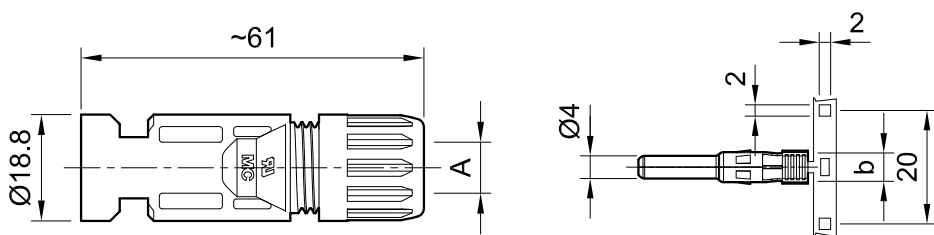
**Technical data**

Fire protection class	UL94:V-0
Ammonia resistance (acc. to DLG)	yes
Salt mist spray test, degree of severity 6	yes
TÜV Rheinland certifications number	R 60127190
TÜV Rheinland 2 PFG 2330	R 60087448
UL-File number	E343181
CSA number of certificate	250725
CQC number of certificate	CQC20024256431
JET number of certificate	B19T0013

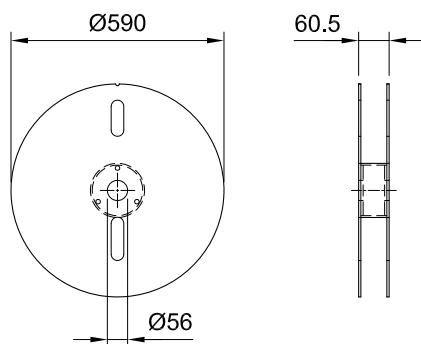
Dimensional drawings



Female cable coupler PV-KBT4...



Male cable coupler PV-KST4...



Reel with contacts

## Ordering information

Order No.	Type	Socket	Plug	Outer diameter of cable	Width of crimp opening	IEC 62852			UL 6703			Contacts per reel	Approvals					
						mm <sup>2</sup>	DC V	A	AWG	DC V	A		TÜV	UR	CSA	CQC	JET	
				A (mm)	b (mm)													
32.0010P2000-UR	PV-KBT4/2,5I-UR	x		5.0 – 6.0	4.0	2.5	1000	22.5				2000	x	x	x			x
									14	1500	30							
32.0011P2000-UR	PV-KST4/2,5I-UR		x	5.0 – 6.0	4.0	2.5	1000	22.5				2000	x	x	x			x
									14	1500	30							
32.0140P2000-UR	PV-KBT4/2,5X-UR	x		5.5 – 7.4	4.0	2.5	1000	22.5				2000	x	x				x
									14	1500	30							
32.0141P2000-UR	PV-KST4/2,5X-UR		x	5.5 – 7.4	4.0	2.5	1000	22.5				2000	x	x				x
									14	1500	30							
32.0012P2000-UR	PV-KBT4/2,5II-UR	x		5.9 – 8.8	4.0	2.5	1000	22.5				2000	x	x	x	x	x	x
									14	1500	30							
32.0013P2000-UR	PV-KST4/2,5II-UR		x	5.9 – 8.8	4.0	2.5	1000	22.5				2000	x	x	x	x	x	x
									14	1500	30							
32.0014P2000-UR	PV-KBT4/6I-UR	x		5.0 – 6.0	5.8	4	1000	39				2000	x	x	x			x
						6	1000	39										
									12	1500	35							
									10	1500	50							
32.0015P2000-UR	PV-KST4/6I-UR		x	5.0 – 6.0	5.8	4	1000	39				2000	x	x	x			x
						6	1000	39										
									12	1500	35							
									10	1500	50							
32.0142P2000-UR	PV-KBT4/6X-UR	x		5.5 – 7.4	5.8	4	1000	39				2000	x	x				x
						6	1000	39										
									12	1500	35							
									10	1500	50							
32.0143P2000-UR	PV-KST4/6X-UR		x	5.5 – 7.4	5.8	4	1000	39				2000	x	x				x
						6	1000	39										
									12	1500	35							
									10	1500	50							
32.0016P2000-UR	PV-KBT4/6II-UR	x		7.0 – 8,8	5.8	4	1000	39				2000	x	x	x	x	x	x
						6	1000	39										
									12	1500	35							
									10	1500	50							



Order No.	Type	Socket	Plug	Outer diameter of cable	Width of crimp opening	IEC 62852			UL 6703			Contacts per reel	Approvals				
						mm <sup>2</sup>	DC V	A	AWG	DC V	A		TÜV	UR	CSA	CQC	JET
32.0017P2000-UR	PV-KST4/6II-UR		x	7.0 – 8,8	5.8	4	1000	39				2000	x	x	x	x	x
						6	1000	39									
									12	1500	35						
								10	1500	50							
32.0034P1500	PV-KBT4/10II	x		7.0 – 8,8	6.5	10	1000	45				1500	x				x
32.0035P1500	PV-KST4/10II		x	7.0 – 8,8	6.5	10	1000	45				1500	x				x

**Note:**

For more detailed information concerning the suitable cable gland range, please consult corresponding assembly instructions (see “Further information”).

**Note:**

Unmated connectors must be protected from any contamination using Stäubli sealing caps. For ordering information concerning Stäubli sealing caps, please consult corresponding catalog (see “Further information”).

## Further information



**Tools and accessories**

For related Stäubli tools and accessories please consult:

[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Catalog → **Tools and accessories**



**Assembly instructions**

For assembly instructions for “Female and male cable coupler MC4” please consult:

[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Assembly info → **MA231**

# Female and male panel receptacle MC4

As individual part (including insulating part)



Female panel receptacle PV-ADBP4-S2...



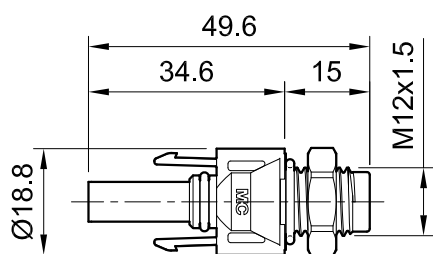
Male panel receptacle PV-ADSP4-S2...

- MC4 panel-receptacle connectors are the interface between an inverter or junction box or junction and a branch cable.
- Mounting directly by means of screw thread or in perforated plate with plastic nut (included in delivery).
- Rapid, precise plugging.
- Protection class (IP66 and IP 68) guarantees maximum tightness.
- To be used with suitable mated connectors from the MC4 product family and suitable lead.
- Includes sealing element for enclosure.

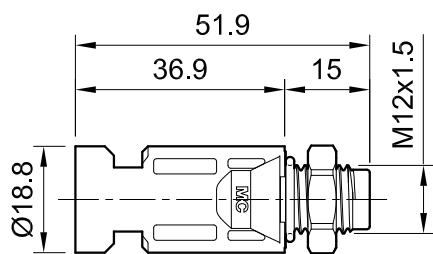
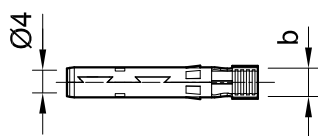
## Technical data

Technical data	
Ambient temperature range	-40 °C...+85 °C (TÜV/UL)
Upper limiting temperature	105 °C
Degree of protection, mated	IP66/IP68 (1 m, 1 h)
Degree of protection, unmated	IP2X
Degree of pollution	3
Max. contact resistance of the connector	0.25 mΩ
Rated Impulse Voltage	16 kV
Contact system	MULTILAM
Type of connection	Crimping
Contact material	Copper, tin plated
Insulation material	PC/PA
Locking system	Locking Type
Fire protection class	UL94:V-0
TÜV Rheinland certifications number	R 60127181
UL-File number	E343181
CSA number of certificate	250725

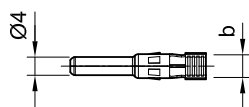
## Dimensional drawings



Female panel receptacle PV-ADBP4-S2...



Male panel receptacle PV-ADSP4-S2...



## Ordering information

Order No.	Type	Socket	Plug	Width of crimp opening	IEC 62852			UL 6703			Approvals			
					b (mm)	mm <sup>2</sup>	DC V	A	AWG	DC V	A	TÜV	UR	CSA
32.0076P0001-UR	PV-ADBP4-S2-UR/2,5	x		4.0	1.5	1250	17.5							
					2.5	1250	22.5				x	x	x	
								14	1500	30				
32.0077P0001-UR	PV-ADSP4-S2-UR/2,5		x	4.0	1.5	1250	17.5							
					2.5	1250	22.5				x	x	x	
								14	1500	30				
32.0078P0001-UR	PV-ADBP4-S2-UR/6	x		5.8	4	1250	39							
					6	1250	45				x	x	x	
								12	1500	35				
								10	1500	50				
32.0079P0001-UR	PV-ADSP4-S2-UR/6		x	5.8	4	1250	39							
					6	1250	45				x	x	x	
								12	1500	35				
								10	1500	50				
32.0150P0001	PV-ADBP4-S2/10	x		6.5	10	1250	51					x		
32.0151P0001	PV-ADSP4-S2/10		x	6.5	10	1250	51					x		

### Note:

For more detailed information concerning the suitable cable gland range, please consult corresponding assembly instructions (see “Further information”).

### Note:

Unmated connectors must be protected from any contamination using Stäubli sealing caps. For ordering information concerning Stäubli sealing caps, please consult corresponding catalog (see “Further information”).

## Further information



### Tools and accessories

For related Stäubli tools and accessories please consult:

[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Catalog → **Tools and accessories**



### Assembly instructions

For assembly instructions for “Female and male panel receptacle MC4” please consult:

[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Assembly info → **MA275**

# Female and male panel receptacle MC4

As individual part (including insulating part)

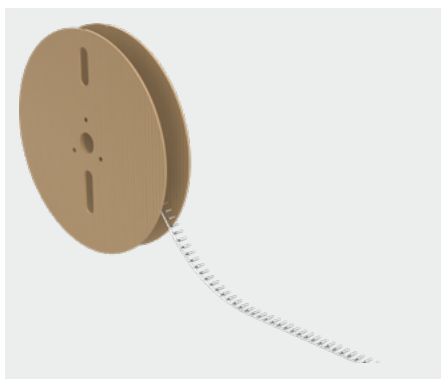


Female panel receptacle PV-ADBP4-S2...



Male panel receptacle PV-ADSP4-S2...

- MC4 panel-receptacle connectors are the interface between an inverter or junction box or junction and a branch cable.
- Mounting directly by means of screw thread or in perforated plate with plastic nut (included in delivery).
- Rapid, precise plugging.
- Protection class (IP66 and IP68) guarantees maximum tightness.
- To be used with suitable mated connectors from the MC4 product family and suitable lead.
- Includes sealing element for enclosure.



Reel with contacts

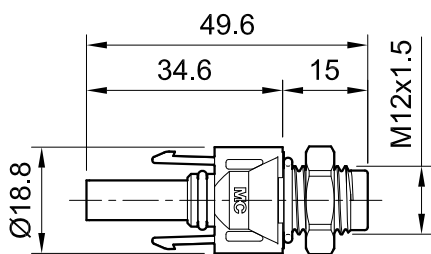
## Technical data

Technical data	
Ambient temperature range	-40 °C...+85 °C
Upper limiting temperature	105 °C
Degree of protection, mated	IP66/IP68 (1 m, 1 h)
Degree of protection, unmated	IP2X
Degree of pollution	3
Max. contact resistance of the connector	0.25 mΩ
Rated Impulse Voltage	16 kV
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Insulation material	PC/PA

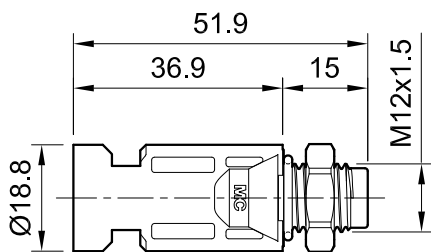
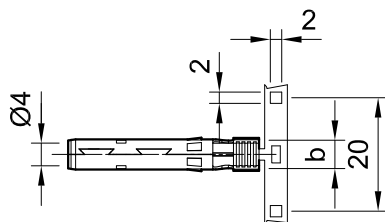
**Technical data**

Locking system	Locking Type
Fire protection class	UL94:V-0
TÜV Rheinland certifications number	R 60127181
UL-File number	E343181
CSA number of certificate	250725

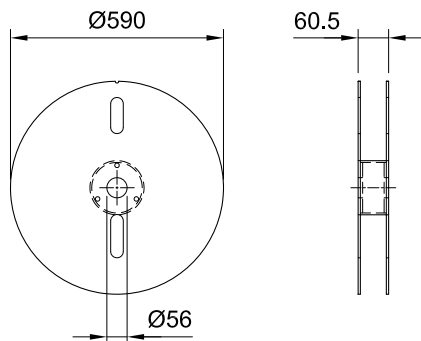
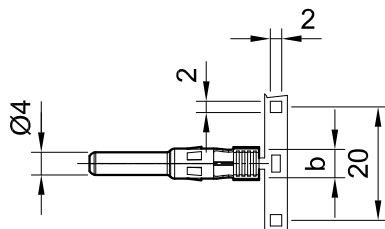
Dimensional drawings



Female panel receptacle PV-ADBP4-S2...



Male panel receptacle PV-ADSP4-S2...



Reel with contacts

## Ordering information

Order No.	Type	Socket	Plug	Width of crimp opening	IEC 62852			UL 6703			Contacts per reel	Approvals		
					mm <sup>2</sup>	DC V	A	AWG	DC V	A		TÜV	UR	CSA
32.0076P2000-UR	PV-ADBP4-S2-UR/2,5	x		4.0	1.5	1250	17.5				2000	x	x	x
					2.5	1250	22.5							
								14	1500	30				
32.0077P2000-UR	PV-ADSP4-S2-UR/2,5		x	4.0	1.5	1250	17.5				2000	x	x	x
					2.5	1250	22.5							
								14	1500	30				
32.0078P2000-UR	PV-ADBP4-S2-UR/6	x		5.8	4	1250	39				2000	x	x	x
					6	1250	45							
								12	1500	35				
								10	1500	50				
32.0079P2000-UR	PV-ADSP4-S2-UR/6		x	5.8	4	1250	39				2000	x	x	x
					6	1250	45							
								12	1500	35				
								10	1500	50				
32.0150P1500	PV-ADBP4-S2/10	x		6.5	10	1250	51				1500	x		
32.0151P1500	PV-ADSP4-S2/10		x	6.5	10	1250	51				1500	x		

## Further information



### Tools and accessories

For related Stäubli tools and accessories please consult:

[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Catalog → **Tools and accessories**



### Assembly instructions

For assembly instructions for “Female and male panel receptacle MC4” please consult:

[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Assembly info → **MA275**



● Staubli Units ○ Representatives/Agents

# Global presence of the Staubli Group

[www.staubli.com](http://www.staubli.com)