FAST MOVING TECHNOLOGY

STÄUBLI

Original MC4
with barrel crimp contacts

Renewable Energy | Solar Photovoltaics

EN



MC4 connector

Socket and plug with barrel crimp contacts

MC4 socket



PV-KBT4...

MC4 plug



PV-KST4....

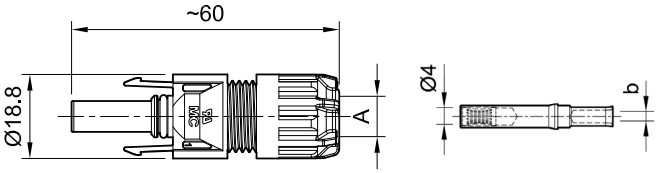
- Snap-in lock
- In accordance with NEC 2023, requires a tool to open
- Proven MULTILAM contact technology with high long-term stability, which ensures consistently low performance loss throughout the entire service life of the connector
- Tried and tested connectors, over 30 years of experience in the field
- Available for assembly with cross-sections up to 6 AWG
- Also available as ready made leads
- Leads made to customer's specifications available upon request
- To be used with suitable mated connectors from the MC4 product family and suitable lead.
- MC4 and MC4-Evo are registered trademarks owned by Stäubli.

Technical data	
Connector system	Ø 4 mm
Rated voltage	DC 1500 V
Rated current UL	30 A (14 AWG) 35 A (12 AWG) 50 A (10 AWG) 70 A (8 AWG) 95 A (6 AWG)
Ambient temperature range	-40 °C ... +85 °C
Degree of protection, mated unmated	IP65, IP68 (1 h/1 m) IP2X
Overvoltage category/Pollution degree	CATIII/3
Contact resistance of connectors	≤0.25 mΩ
Safety class	DC 1500 V: 0
Contact system	MULTILAM
Type of termination	Crimp (barrel crimp)
Contact material	Copper, tin plated
Insulation material	PC/PA
Locking system (UL)	Locking type, requiring tool
Flammability class	UL94-V0
Ammonia resistance (acc. to DLG)	yes
Salt mist spray test, degree of severity 6	yes
UL-File number (UL6703 and CSA C22.2 No. 182.5) (cULus Listed and UL Recognized)	E343181

Dimensional drawings

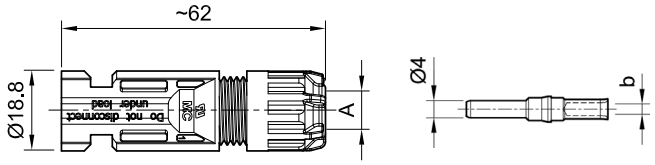
MC4 socket

Dimensions in mm



PV-KBT4...

MC4 plug



PV-KST4....

Ordering information

Socket		Plug		Ø range of cable gland	Conductor cross-section	Width of crimp opening
Order No.	**Type**	**Order No.**	**Type**	**A (mm)**	**AWG**	**b (mm)**
32.0094-URFL	PV-KBT4/5I-UR	**32.0095-URFL**	PV-KST4/5I-UR	4.80 – 6.20	14; 12; 10	3
32.0792-URFL	PV-KBT4/5X-UR	**32.0793-URFL**	PV-KST4/5X-UR	6.20 – 7.00	14; 12; 10	3
32.0096-URFL	PV-KBT4/5II-UR	**32.0097-URFL**	PV-KST4/5II-UR	7.00 – 8.60	14; 12; 10	3
32.0080-URFL	PV-KBT4/8II-UR	**32.0081-URFL**	PV-KST4/8II-UR	6.00 – 8.80	8	4.4
32.0336-URFL	PV-KBT4/13II-UR	**32.0337-URFL**	PV-KST4/13II-UR	7.00 – 9.00	6	5

Note:
For more detailed information concerning suitable cable glands, please consult the corresponding assembly instructions.

Note:
Unmated connectors must be protected from any contamination using Stäubli protective caps. For ordering information concerning Stäubli protective caps, please see page 8.

Further information

Tools and accessories
For related Stäubli tools and accessories please consult page 6 and 8

Assembly instructions
For assembly instructions for “MC4 connector” please consult:
www.staubli.com/re-downloads.html ➞ English ➞ Assembly info ➞ **MA728, MA730**

MC4 panel receptacle

Socket panel receptacle and plug panel receptacle with barrel crimp contacts

MC4 socket panel receptacle



PV-ADBP4-S2-UR/8

MC4 plug panel receptacle



PV-ADSP4-S2-UR/8

MC4 panel receptacle are the interface between an inverter or junction box or junction and a branch cable.

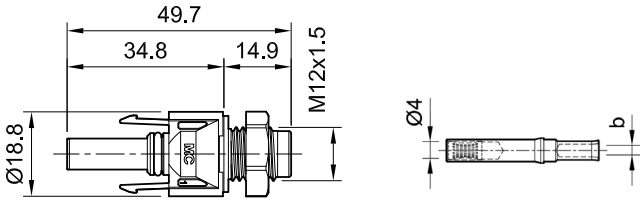
- Mounting directly by means of screw thread or in perforated plate with plastic nut (included in delivery).
- Rapid, precise plugging.
- Protection class (IP65 and IP68) guarantees a high level of tightness.
- To be used with suitable mated connectors from the MC4 product family and suitable lead.
- Includes sealing element for enclosure.
- MC4 and MC4-Evo are registered trademarks owned by Stäubli.

Technical data	
Connector system	Ø 4 mm
Rated voltage	DC 1500 V
Rated current UL	70 A (8 AWG)
Ambient temperature range	-40 °C ... +85 °C
Degree of protection, mated unmated	IP65, IP68 (1 h/1 m) IP2X
Overvoltage category/Pollution degree	CATIII/3
Contact resistance of connectors	≤0.25 mΩ
Safety class	DC 1500 V: 0
Contact system	MULTILAM
Type of termination	Crimp (barrel crimp)
Contact material	Copper, tin plated
Insulation material	PC/PA
Locking system (UL)	Locking type, requiring tool
Flammability class	UL94-V0
Ammonia resistance (acc. to DLG)	yes
Salt mist spray test, degree of severity 6	yes
UL-File number (UL6703 and CSA C22.2 No. 182.5) (cULus Listed and UL Recognized)	E343181

Dimensional drawings

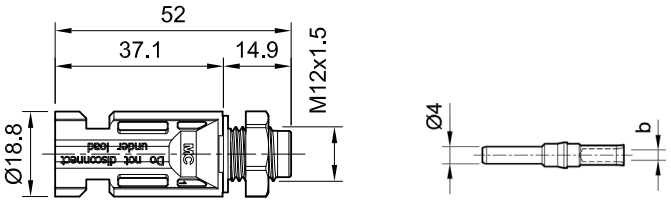
MC4 socket panel receptacle

Dimensions in mm



PV-KBT4...

MC4 plug panel receptacle



PV-KST4....

Ordering information

Socket		Plug		Ø range of gland	Conductor cross-section	Width of crimp opening
Order No.	Type	Order No.	Type	A (mm)	AWG	b (mm)
32.0354-URFL	PV-ADBP4-S2-UR/8	**32.0355-URFL**	PV-ADSP4-S2-UR/8	6.00 – 8.80	8	4.4

Note:
For more detailed information concerning suitable cable glands, please consult the corresponding assembly instructions.

Note:
Unmated connectors must be protected from any contamination using Stäubli protective caps. For ordering information concerning Stäubli protective caps, please see page 8.

Further information

Tools and accessories
For related Stäubli tools and accessories please consult page 6 and 8

Assembly instructions
For assembly instructions for “MC4 panel receptacle connectors” please consult:
www.staubli.com/re-downloads.html ➞ English ➞ Assembly info ➞ **MA729**

Crimping pliers

MC4 and MC4-Evo 2 crimping pliers



PV-CZM...

- Crimping pliers set PV-CZM-64100 comes with crimping die PV-ES-CZM-61100 and locator for MC4 open crimp contacts and crimping die PV-ES-CZM-63100 and locator for MC4 barrel crimp contacts.
- TÜV and UL certified product.
- Registered design feature providing traceability information about crimping tool on each individual crimped connection.

MC4 crimping pliers for barrel crimp contacts



PV-CZLX/6AWG...

- Manual crimping pliers for 6 AWG barrel crimp terminals of the MC4 product family (PV-KBT4/13II-UR and PV-KST/13II-UR).
- Locator included for correct positioning of the crimping.

Ordering information

Order No.	Type	Designation	Crimp range	Crimp type		Assembly instruction
			AWG	Open crimp AWG	Barrel crimp AWG	
32.6020-64100	PV-CZM-64100	MC4 and MC4-Evo 2 crimping pliers set (incl. locators and crimping dies)	14; 12; 10; 8	14; 12; 10	14; 12; 10; 8	MA704
32.0349	PV-CZLX/6AWG	MC4 crimping pliers (incl. locator)	6		6	MA730
Individual parts for PV-CZM-64100						
32.6021-61100	PV-ES-CZM-61100	Crimping die	14; 12; 10	14; 12;10		MA704
32.6021-63100	PV-ES-CZM-63100	Crimping die	14; 12; 10; 8		14; 12; 10; 8	MA704
32.6082	PV-LOC-MC4 2.5/4/6	Locator	14; 12; 10	14; 12; 10		MA704
32.6085	PV-LOC-MC4 14/12-10/8	Locator	14; 12; 10; 8		14; 12; 10; 8	MA704
Individual parts for PV-CZLX/6AWG						
32.0350	PV-CZL/6AWG-LOC	Locator	6		6	MA730

Note:
Please contact us for information on pneumatic crimp station options.

Further information

Operating instructions

For operating instructions for “MC4 and MC4-Evo 2 crimping pliers” please consult:
www.staubli.com/re-downloads.html ➞ English ➞ Assembly info ➞ **MA704**

Assembly instructions

For assembly instructions for “MC4 crimping pliers for barrel crimp contacts (PV-CZLX/6AWG)” please consult:
www.staubli.com/re-downloads.html ➞ English ➞ Assembly info ➞ **MA730**

MC4 open-end spanner set

MC4 open-end spanner set



- For pre-tightening and loosening the cap nut.
- For MC4 and MC4-Evo 2, also for releasing the locking of the plug-in connection.

PV-MS

Ordering information

Order No.	Type	Designation	Material	Connector system	Piece
32.6024	PV-MS	MC4 open-end spanner set	Plastic	MC4 and MC4-Evo 2	Set (2 pcs.)

MC4 and MC4-Evo 2 protective cap

MC4 and MC4-Evo 2 socket protective cap



PV-BVK4

MC4 and MC4-Evo 2 plug protective cap

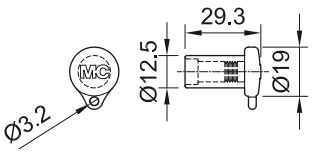


PV-SVK4

- Protective caps for protective purpose of unplugged PV connectors.

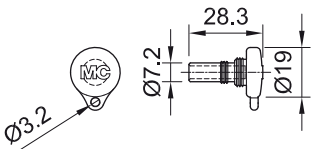
Dimensional drawings

MC4 and MC4-Evo 2 socket protective cap



PV-BVK4

MC4 and MC4-Evo 2 plug protective cap



PV-SVK4

Dimensions in mm

Ordering information

Order No.	Type	Designation	Suitable for socket side	Suitable for plug side	Material	Connector system	Piece
32.0716P100	PV-BVK4	MC4 and MC4-Evo 2 socket protective cap	×		TPE	MC4 and MC4-Evo 2	100
32.0717P100	PV-SVK4	MC4 and MC4-Evo 2 plug protective cap		×	TPE	MC4 and MC4-Evo 2	100

Further information

Assembly instructions

For assembly instructions for “MC4 and MC4-Evo 2 protective caps” please consult:
www.staubli.com/re-downloads.html ➞ English ➞ Assembly info ➞ **MA258**



● Stäubli Units ○ Representatives/Agents

Global presence of the Stäubli Group

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