

## RADOX® SOLAR connectors

RADOX® SOLAR connectors of HUBER+SUHNER consist of a housing and contact element. Lamella contacts made of high quality copper beryllium are considered to be core of the connectors.

Without a lamella contact these advantages cannot be achieved. The lamella contact as a flexible element provides mechanical compensation between socket and pin. The lamella produces a large contact surface between the elements and guarantees a low, constant transition resistance.

All HUBER+SUHNER solar connectors are intercompatible.

### General features

- Small dimensions
- Corrosion resistance
- High contact security
- High mechanical endurance (impact resistance)
- Low, constant transition resistance
- High current carrying capacity

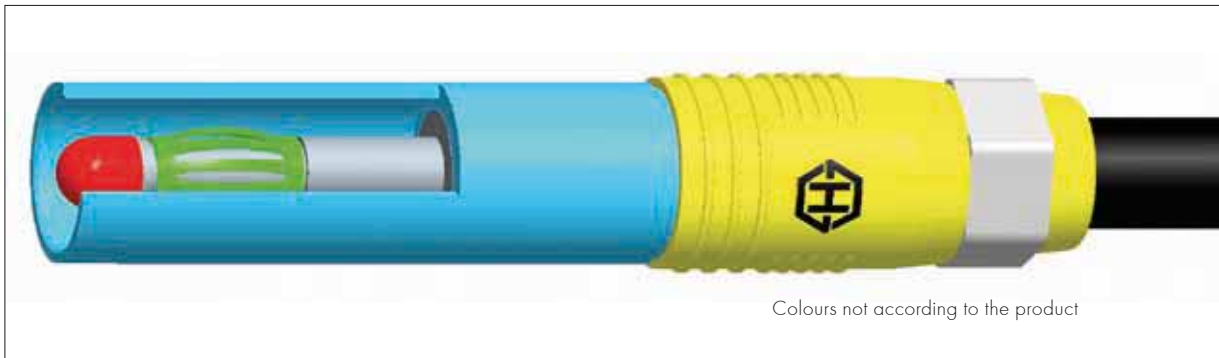
## RADOX® SOLAR connectors

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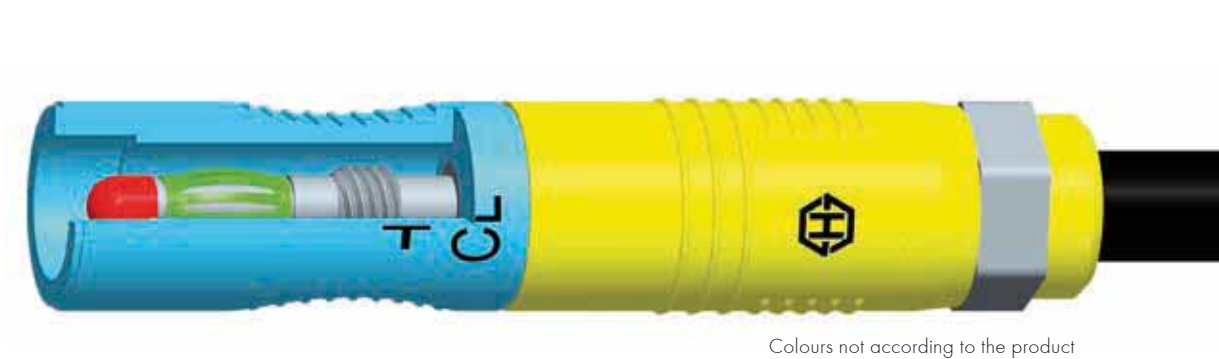
# RADOX® SOLAR connector

## Presentation of the contact principle

Connector without twist locking



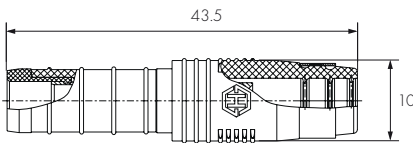
Connector with integrated twist locking



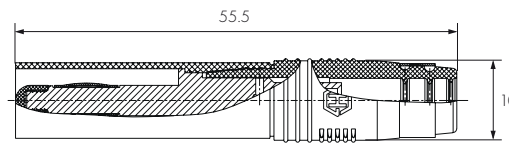
# RADOX® SOLAR connector 2.5 mm<sup>2</sup>



- Small profile
- High current capacity
- Constant low transition resistance
- High mechanical resistance
- UV- and ozone resistant
- Protection mode IP 67 in mated condition
- TÜV approval
- Easy assembly



Solar female part 2.5mm<sup>2</sup>



Solar male part 2.5 mm<sup>2</sup>



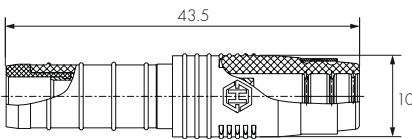
Ordering information	Item no.
Solar female part (entire unit)	24101616
Solar female part composed of a turned metal female plug 84039643 (no marking on the part) and grip hood 84039645 (designation GB -)	
Solar male part (entire unit)	24101617
Solar male part composed of a turned metal male plug 84039644 (no marking on the part) und grip hood 84039760 (designation GL +)	

Technical data	
Diameter	4 mm
Contact carrier	brass tin-plated
Contact principle	copper beryllium lamella contact
Disengagement force in mated condition	~ 55 N
Compatible cross-sections	2.5 mm <sup>2</sup> RADOX® SOLAR cable, RADOX® SMART, RADOX® SolarLink
Termination type	crimp with HUBER+SUHNER tongs with crimp insert 2.5 and 4 mm <sup>2</sup> , item no. 24101518
Plastic material	grip hood   lamella connector
Material	TPE   PA 6.6
Fire resistance	UL 94 - HB   UL 94 - VO
Halogen free	halogen free acc. to DIN VDE 0472 (part 815)
Chemical resistance	UV and ozone resistant
Temperature range	-40 °C up to +110 °C
Current carrying capacity	28 A at +85 °C
Max. system voltage	1000 V/DC
Transition resistance	< 4 mΩ
Protection type	II
Protection mode	IP 67 in mated condition
TÜV Rheinland approval	certificate no. R 60017637, DIN V VDE V 0126-3/12.06

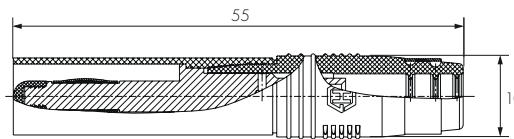
# RADOX® SOLAR connector 4 mm<sup>2</sup>



- Small profile
- High current capacity
- Constant low transition resistance
- High mechanical resistance
- UV- and ozone resistant
- Protection mode IP 67 in mated condition
- TÜV approval
- Easy assembly



Solar female part 4 mm<sup>2</sup>



Solar male part 4 mm<sup>2</sup>



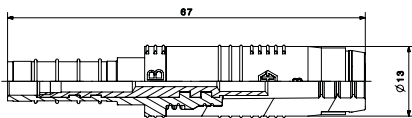
Ordering information	Item no.
Solar female part (entire unit)	24500072
Solar female part composed of a turned metal female plug 84039643 (no marking on the part) and grip hood 84039646 (designation GB -)	
Solar male part (entire unit)	24500070
Solar male part composed of a turned metal male plug 84039644 (no marking on the part) und grip hood 84039761 (designation GL +)	

Technical Data	
Diameter	4 mm
Contact carrier	brass tin-plated
Contact principle	copper beryllium lamella contact
Disengagement force in mated condition	~ 55N
Compatible cross-sections	4 mm <sup>2</sup> RADOX® SOLAR cable, RADOX® SMART, RADOX® Solartlink
Termination type	crimp with HUBER+SUHNER tongs with crimp insert 2.5 and 4 mm <sup>2</sup> , item no. 24101518
Plastic material	grip hood   lamella connector
Material	TPE   PA 6.6
Fire resistance	UL 94 - HB   UL 94 - VO
Halogen free	halogen free, DIN VDE 0472 (part 815)
Chemical resistance	UV- and ozone resistant
Temperature range	-40 °C up to +110 °C
Current carrying capacity	38 A at +85 °C
Max. system voltage	1000 V/DC
Transition resistance	< 4 mΩ
Protection type	II
Protection mode	IP 67 in mated condition
TÜV Rheinland approval	certificate no. R 60017637, DIN V VDE V 0126-3/12.06

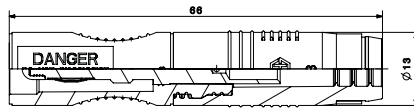
# RADOX® SOLAR connector 4 mm<sup>2</sup> with integrated twist locking



- Small profile
- Integrated twist locking
- High current capacity
- Constant low transition resistance
- High mechanical resistance
- UV- and ozone resistant
- Protection mode IP 67 in mated condition
- Easy assembly



Solar female part with locking 4 mm<sup>2</sup>



Solar male part with locking 4 mm<sup>2</sup>



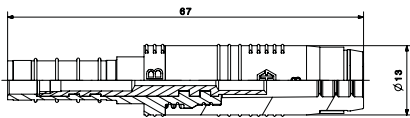
Ordering information	Item no.
Solar female part (entire unit)	24500095
Solar female part composed of a turned metal female plug 84039625 (designation CB -) and grip hood 84039627 (designation C4)	
Solar male part (entire unit)	24500094
Solar male part composed of a turned metal male plug 84039626 (designation CL +) und grip hood 84039627 (designation C4)	

Technical data		
Diameter	4 mm	
Contact carrier	brass tin-plated	
Contact principle	copper beryllium lamella contact	
Disengagement force	~ 55 N	
Compatible cross-sections	4 mm <sup>2</sup> RADOX® SOLAR cable, RADOX® SMART, RADOX® SolarLink	
Termination type	crimp with HUBER+SUHNER tongs with crimp insert 4 and 6 mm <sup>2</sup> , item no. 24101803	
Plastic material	grip hood	lamella connector
Material	TPE	PA 6.6
Fire resistance	UL 94- HB	UL 94- VO
Halogen free	halogen free, DIN VDE 0472 (part 815)	
Chemical resistance	UV and ozone resistant	
Temperature range	-40 °C up to +110 °C	
Current carrying capacity	38 A at +85 °C	
Max. system voltage	1000 V/DC	
Transition resistance	< 4 mΩ	
Protection type	II	
Protection mode	IP 67 in mated condition	
TÜV Rheinland approval	certificate no. R 60017637, DIN V VDE V	

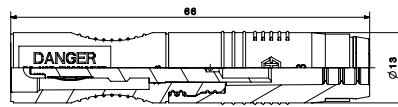
# RADOX® SOLAR connector 6 mm<sup>2</sup> with integrated twist locking



- Small profile
- Integrated twist locking
- High current capacity
- Constant low transition resistance
- High mechanical resistance
- UV- and ozone resistant
- Protection mode IP 67 in mated condition
- Easy assembly



Solar female part with twist locking



Solar male part with twist locking



Ordering information	Item no.
Solar female part (entire unit)	24500093
Solar female part composed of a turned metal female plug 84039625 (designation CB -) and grip hood 84039641 (designation C6)	
Solar male part (entire unit)	24500092
Solar male part composed of a turned metal male plug 84039626 (designation CL +) und grip hood 84039641 (designation C6)	

Technical data	
Diameter	4 mm
Contact carrier	brass tin-plated
Contact principle	copper beryllium lamella contact
Disengagement force	~ 55 N
Compatible cross-sections	6 mm <sup>2</sup> RADOX® SOLAR cable, RADOX® SMART, RADOX® Solartlink
Termination type	crimp with HUBER+SUHNER tongs with crimp insert 4 and 6 mm <sup>2</sup> , item no. 24101803
Plastic material	grip hood   lamella connector
Material	TPE   PA 6.6
Fire resistance	UL 94 - HB   UL 94 - VO
Halogen free	halogen free, DIN VDE 0472 (part 815)
Chemical resistance	UV and ozone resistant
Temperature range	-40 °C up to +110 °C
Current carrying capacity	38 A at +85 °C
Max. system voltage	1000 V/DC
Transition resistance	< 4 mΩ
Protection type	II
Protection mode	IP 67 in mated condition
TÜV Rheinland approval	certificate no. R 60017637, DIN V VDE V

# Notes

