



CB-5054B-XX  
CB-5054R-XX

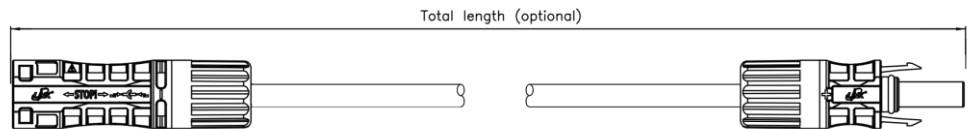
LINK AMERICAN CABLING



## Scope of Applications

LINK Patch Cord Solar Cable with MC4 connector covers the general requirements for photovoltaic cable used for outdoor and indoor installation and is suitable for photovoltaic power systems. Both ends of the cable shall have an MC4 connector no need for terminal processing exceeding IEC/EN 62852 with UV-resistant and waterproof protection class IP68. The outer jacket is made from electron beam XLPE with FR-LSZH to reduce the amount of toxic smoke, UV resistance, and resistance against water. The cable is made of fine wire strands of tinned copper wires to reduce oxidation or corrosion, according to IEC62930/IEC 60228 Class5 and RoHS compliant. Appointed length is acceptable. stable automatic lock system makes connectors open and close easily. The lock clip is specially designed to prevent personnel from unlocking by hand.

## Drawing



## Technical Standards

- IEC 62930:2017
- EN 50618:2014
- IEC 60228 Class 5
- DIN VDE 0295 Class 5
- IEC 62852:2014
- EN 62852:2015
- UL 6703
- TÜV Approvals
- RoHS compliant

## APPLICATION

Use in solar system, module, junction box and so on



## Technical Specification

<b>Cable</b>	<b>Conductor Material</b>	Fine wire stranded tinned copper according IEC 60228 Class 5
	<b>Conductor Cross section</b>	4.0 mm <sup>2</sup>
	<b>Insulation Material</b>	Halogen free, Copolymer Electron beam cross-linked polyolefin (XLPO) with FR-LSZH according to IEC 62930:2017 & EN 50618:2014
	<b>Insulation Thickness</b>	0.70 mm.
	<b>Jacket Material</b>	Halogen free, Copolymer Electron beam cross-linked polyolefin (XLPO) with FR-LSZH according to IEC 62930:2017 & EN 50618:2014
	<b>Jacket Thickness</b>	0.80 mm.
	<b>Jacket Color</b>	Red or Black
<b>Connector</b>	<b>Contact Material</b>	Copper Tin plating
	<b>Insulation Material</b>	PPE/PA
	<b>Flame Class</b>	UL 94V-0
	<b>Index Protection</b>	IP68
	<b>Safety Class</b>	Class II
	<b>Pollution Degree</b>	2
	<b>Overvoltage Level</b>	Class III

## Electrical Characteristic

<b>Nominal Voltage U<sub>0</sub>/U</b>	AC 1000/1000V, DC 1500/1500V	
<b>Rated Current</b>	<b>Cable</b>	42A (For 4.0 mm <sup>2</sup> )
	<b>connector</b>	46A
<b>Max. DC voltage</b>	1800V (conductor-conductor, non-earth system, circuit not under load)	
<b>AC Test Voltage</b>	6.5 KV	
<b>DC Test Voltage</b>	15 KV	
<b>Contact Resistance</b>	≤ 0.25 mΩ	
<b>Min. Surface resistance of sheath</b>	10 <sup>9</sup> Ω	

## Environmental Characteristic

<b>Max. temperature at conductor</b>	120°C
<b>Temperature Range</b>	-40°C to +90°C
<b>Halogen free</b>	according to IEC 62930:2017, IEC 60754-1, IEC 60754-2, IEC 62821-1 & EN50525-1
<b>Ozone resistance</b>	according to EN 50396 & IEC 60811-403
<b>Weathering/UV resistance</b>	according to IEC62930 Annex E, EN 60811-501 & EN 50289-4-17
<b>Mineral oil immersion</b>	according to IEC 60811-404
<b>Flame characteristics</b>	according to IEC 60332-1-2 & IEC 60332-1-3
<b>Smoke emission</b>	according to IEC 61034-1 & IEC 61034-2
<b>Acid and alkaline resistant</b>	according to IEC 62930 & IEC/EN 60811-404
<b>Water resistance</b>	according to Category AD8, IEC 62440: Annex A, IEC 60364-5-51: Table 51A, EN 50525-2-21:2011
<b>Damp heat test</b>	according to IEC/EN 60068-2-78
<b>Certified</b>	Approval TÜV Rheinland IEC 62930:2017 Certificate number. R 50635458 Approval TÜV Rheinland EN 50618:2014 Certificate number. R 50635463



## Mechanical Characteristic

<b>Min. bending radius</b>		5 x Cable diameter
<b>Tensile strength and elongation</b>		according IEC 60811-1-1
<b>Tensile Strength</b>	<b>Insulation</b>	≥ 8 N/mm <sup>2</sup>
	<b>Jacket</b>	≥ 8 N/mm <sup>2</sup>
<b>Cold bending</b>		according IEC 60811-504
<b>Cold elongation</b>		according IEC 60811-505
<b>Hot set test</b>		according IEC 60811-507
<b>Thermal endurance properties</b>		according IEC 60216-2

## Order Information

Part number	Description	Color	Length	Package
CB-5054B-03	Patch Cord Solar Cable (BLACK) 4.0 mm <sup>2</sup> w/MC4	Black	3 m	Sealed Packaging
CB-5054R-03	Patch Cord Solar Cable (Red) 4.0 mm <sup>2</sup> w/MC4	Red	3 m	Sealed Packaging
CB-5054B-05	Patch Cord Solar Cable (BLACK) 4.0 mm <sup>2</sup> w/MC4	Black	5 m	Sealed Packaging
CB-5054R-05	Patch Cord Solar Cable (Red) 4.0 mm <sup>2</sup> w/MC4	Red	5 m	Sealed Packaging
CB-5054B-10	Patch Cord Solar Cable (BLACK) 4.0 mm <sup>2</sup> w/MC4	Black	10 m	Sealed Packaging
CB-5054R-10	Patch Cord Solar Cable (Red) 4.0 mm <sup>2</sup> w/MC4	Red	10 m	Sealed Packaging

\*Other length available on request

Specifications subject to change without notice.

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