



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

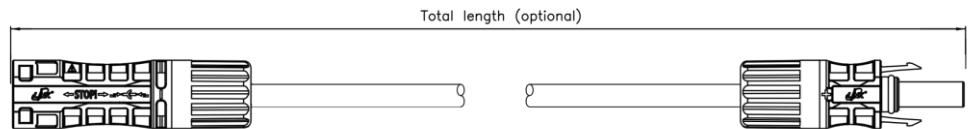
LINK AMERICAN CABLING



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 XLPO 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

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

Electrical Characteristic

Nominal Voltage U₀/U	AC 1000/1000V, DC 1500/1500V	
Rated Current	Cable	42A (For 4.0 mm ²)
	connector	46A
Max. DC voltage	1800V (conductor-conductor, non-earth system, circuit not under load)	
AC Test Voltage	6.5 KV	
DC Test Voltage	15 KV	
Contact Resistance	≤ 0.25 mΩ	
Min. Surface resistance of sheath	10 ⁹ Ω	

Environmental Characteristic

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



Mechanical Characteristic

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

Order Information

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

*Other length available on request

Specifications subject to change without notice.

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