

SOLAR CABLE

CATALOG 2022 - 2023



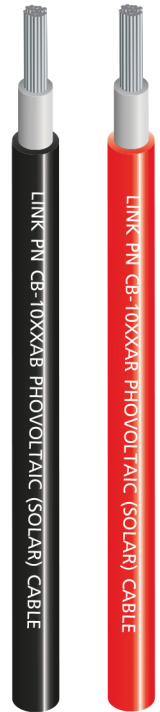
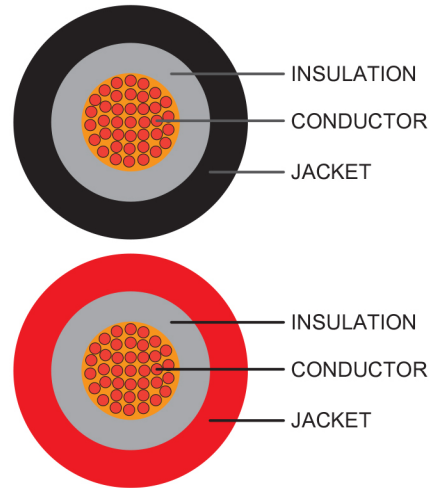
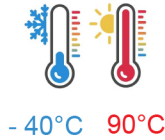


SOLAR CABLE

(Photovoltaic Cable)

STANDARD

- IEC 62930:2017
- EN 50618:2014
- IEC/EN 60228 Class 5
- DIN VDE 0295 Class 5
- TÜV Approvals R50495554
- RoHS compliant



ELECTRICAL CHARACTERISTIC

Nominal Voltage U ₀ /U	AC 1000/1000V, DC 1500/1500V
Max. DC voltage	1800V (conductor-conductor, non-earth system, circuit not under load)
AC Test Voltage	6.5 KV
DC Test Voltage	15 KV
Min. Surface resistance of sheath	10 ⁹ Ω

TEMPERATURE

Max. temperature at conductor	-40°C to + 120°C
Temperature Range	-40°C to + 90°C

CABLE CONSTRUCTION

Conductor Material	Fine wire stranded tinned copper according IEC/EN 60228 Class 5
Insulation Material	Halogen free, Copolymer Electron beam cross-linked polyethylene (XLPE)
Jacket Material	Halogen free, Copolymer Electron beam cross-linked polyethylene (XLPE) with FR-LSZH
Jacket Color	Red or Black

TECHINCAL SPECIFICATION

Size (mm ²)	Insulation Thickness (mm)	Jacket Thickness (mm)	Jacket Diameter (mm)	Conductor Resistance at 20°C (Ω/km)	Insulation Resistance at 20°C (MΩ/km)	Rated Current (A)	
						@ 30°C (IEC62930)	@ 60°C (EN50618)
2.5	0.70	0.80	5.05±0.30	≤ 8.21	≥ 690	42	41
4	0.70	0.80	5.40±0.30	≤ 4.85	≥ 580	57	55
6	0.70	0.80	6.30±0.30	≤ 3.25	≥ 500	72	70
10	0.70	0.80	7.20±0.30	≤ 1.95	≥ 420	98	98

ORDER INFORMATION

Part Number	Description	Length	Package
CB-1025AX	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, 1500 V, 1x2.5 mm ² , (Black or Red)	100/500/1000 m.	Box./Roll.
CB-1040AX	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, 1500 V, 1x4 mm ² , (Black or Red)	100/500/1000 m.	Box./Roll.
CB-1060AX	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, 1500 V, 1x6 mm ² , (Black or Red)	100/500/1000 m.	Box./Roll.
CB-1100AX	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, 1500 V, 1x10 mm ² , (Black or Red)	100/500/1000 m.	Box./Roll.

X=Color : B (Black) , R(Red)

Add "-1" at the end of the P/N = 100 m / Box.e.g. CB-1040AB-1

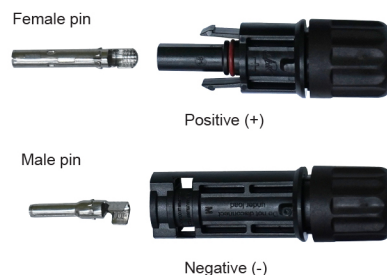
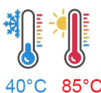
"-5" at the end of the P/N = 500 m / Roll.e.g. CB-1040AB-5

CONNECTOR for SOLAR CABLE (MC4 SERIES)



MC4 CONNECTOR (PAIR)

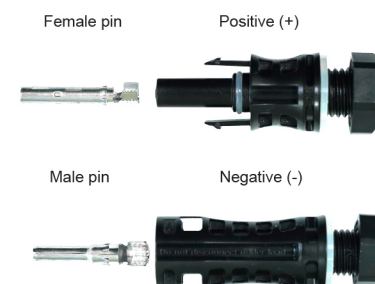
- Compliant with MC4 Connector
- Compatible Cable : 2.5 mm², 4.0 mm², 6.0 mm² and 10.0 mm²
- Rated Voltage : 1500V DC
- Rate Current : 40A, 55A
- UV-resistance & Waterproof with Protection class IP68
- High voltage carrying capacity
- The connector can be used in the atrocious weather.
- Stable automatic lock-system makes connectors open and close easily
- The lock-clip has special designed to prevent personnel unlocked by hand.



Part Number	Description
CB-1002A	MC4 Connector (Pair) 1500V, TUV Standard, (2.5, 4.0 and 6.0 mm ²)
CB-1003	MC4 Connector (Pair) 1500V, TUV Standard, (10.0 mm ²)

MC4 PANEL CONNECTOR (PAIR)

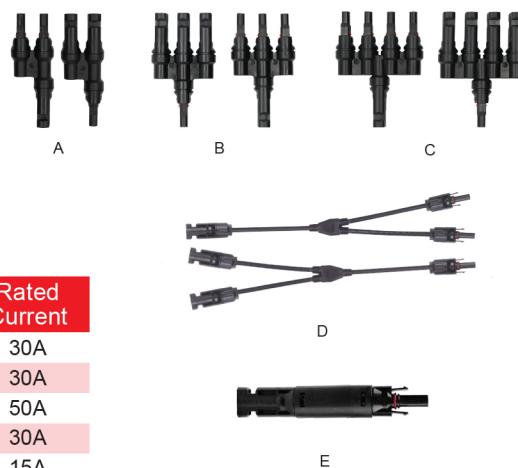
- Compliant with MC4 connector
- Compatible Cable : 2.5 mm², 4 mm² and 6 mm²
- Rated Voltage : 1500V DC
- Rated Current : 50A
- UV-resistance & Waterproof with Protection class IP68
- High voltage carrying capacity
- The connector can be used in the atrocious weather.
- Stable automatic lock-system makes connectors open and close easily
- The lock-clip has special designed to prevent personnel unlocked by hand.



Part Number	Description
CB-1006A	MC4 Panel Connector (Pair) 1500V, TUV Standard, (2.5, 4.0 and 6.0 mm ²)

MC4 BRANCH, MC4 T-TYPE and MC4 FUSE CONNECTOR

- Compliant with MC4 Connector
- Compatible Cable : 2.5 mm², 4 mm² and 6 mm²
- Rated Voltage : 1500V DC
- Rated Current : 30A, 50A
- UV-resistance & Waterproof with Protection class IP67
- High voltage carrying capacity
- The connector can be used in the atrocious weather.
- Stable automatic lock-system makes connectors open and close easily



Part Number	Description	Figure	Rated Current
CB-1004	MC4 Y Branch, 2 to 1 Connector (Pair), 1500V, TUV Standard	A	30A
CB-1008	MC4 T-Type, 3 to 1 Connector (Pair), 1500V, TUV Standard	B	30A
CB-1010	MC4 T-Type, 4 to 1 Connector (Pair), 1500V, TUV Standard	C	50A
CB-1014	MC4 Y-Branch Cable with Connector (Pair), 1500V, TUV Standard	D	30A
CB-1020	MC4 Fuse Connector, w/15A fuse, 1500V, TUV Standard	E	15A

PATCH CORD SOLAR CABLE

- Cable : 4 mm² and 6 mm² with MC4 Connector
- Rated Voltage : 1500V DC
- Rated Current : Connector 40A, Cable 42A, 57A
- UV-resistance & Waterproof with Protection class IP68
- The connector can be used in the atrocious weather.
- According IEC 62930:2017, IEC/EN 60228 Class 5 TÜV Approvals and RoHS compliant



Part Number	Description
CB-5054B-XX	Patch Cord Solar Cable (BLACK) 4.0 mm ² w/MC4
CB-5054R-XX	Patch Cord Solar Cable (Red) 4.0 mm ² w/MC4
CB-5056B-XX	Patch Cord Solar Cable (BLACK) 6.0 mm ² w/MC4
CB-5056R-XX	Patch Cord Solar Cable (Red) 6.0 mm ² w/MC4

XX = 03 : 3m., 05 : 5m., 10 : 10m., 20 : 20m., 30 : 30m., 50 : 50m.
* Available other length on request.

TOOL for SOLAR CONNECTOR

Part Number	Description	Figure
CB-1084	MC4 Crimping Tool for MC4 Connector	A
CB-1086	MC4 Spanner for MC4 Connector	B

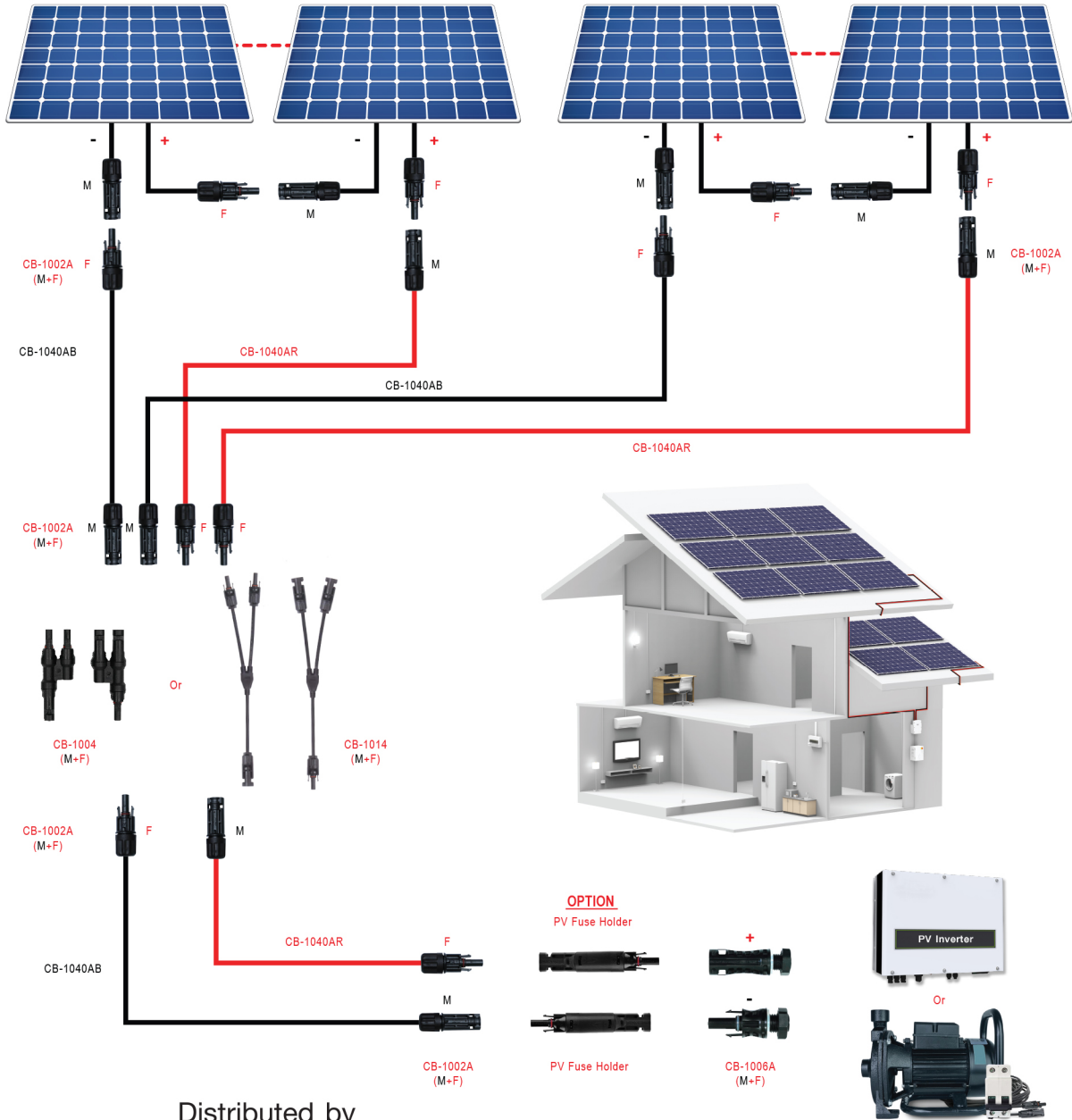


A



B

SOLAR CABLE & CONNECTOR SOLUTION



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