



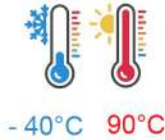
SOLAR CABLE

CATALOG 2020-2021



SOLAR CABLE

(Photovoltaic Cable)



STANDARD

- EN 50618:2014
- IEC 62930:2017
- EN 60288, Class 5
- DIN VDE 0295 Class 5
- TÜV Approvals
- 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	$10^9 \Omega$
Electrical tests	according EN50618:2014

TEMPERATURE

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

TECHINICAL SPECIFICATION

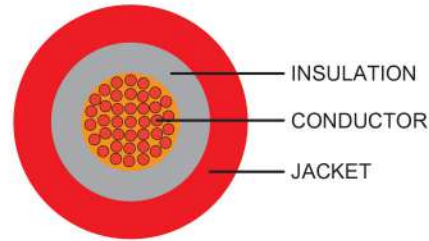
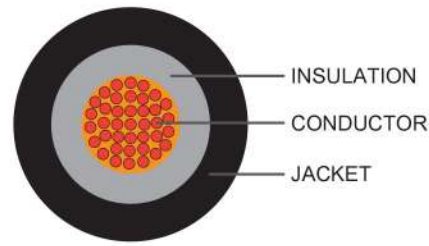
Size (mm ²)	Conductor Diameter (N/mm)	Insulation Thickness (mm)	Insulation Diameter (mm)	Jacket Thickness (mm)	Jacket Diameter (mm)	Conductor Resistance at 20°C (Ω/km)	Insulation Resistance at 20°C (MΩ/km)	Rated Current at 60°C (A)
2.5	50/0.25	0.80	3.65±0.2	0.80	5.80±0.3	≤ 8.21	≥ 690	41
4	56/0.30	0.80	4.20±0.2	0.80	6.05±0.3	≤ 4.85	≥ 580	55
6	84/0.30	0.80	4.90±0.2	0.80	6.50±0.3	≤ 3.10	≥ 500	70
10	84/0.4	0.80	5.75±0.2	0.80	8.66±0.3	≤ 1.95	≥ 420	98
16	126/0.4	0.80	7.55±0.2	0.90	10.10±0.3	≤ 1.24	≥ 340	132

ORDER INFORMATION

Part Number	Description	Length	Package
CB-1025X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x2.5 mm ² , (Black or Red)	100/1000 m	Box./Roll.
CB-1040X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x4 mm ² , (Black or Red)	100/1000 m	Box./Roll.
CB-1060X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x6 mm ² , (Black or Red)	100/1000 m	Box./Roll.
CB-1100X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x10 mm ² , (Black or Red)	100/1000 m	Box./Roll.
CB-1160X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x16 mm ² , (Black or Red)	100/1000 m	Box./Roll.

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

Add "-1" at the end of the P/N = 100 m / Box.



CABLE CONSTRUCTION

Conductor Material	Fine wire stranded tinned copper according EN 60288 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

CONNECTOR for SOLAR CABLE (MC4 SERIES)



MC4 CONNECTOR (PAIR)

- Compliant with MC4 connector
- Compatible Cable : 2.5 mm², 4 mm² and 6 mm²
- Rated Voltage : 1500V DC
- 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



Part Number	Description
CB-1002	MC4 Connector (Pair) 1500V, TUV Standard

MC4 PANEL CONNECTOR (PAIR)

- Compliant with MC4 connector
- Compatible Cable : 2.5 mm², 4 mm² and 6 mm²
- Rated Voltage : 1000V DC
- Rated Current : 30A
- Test Voltage : 6kV
- Rated Current : 30A
- 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
CB-1006	MC4 Panel CONNECTOR (Pair) 1000V, TUV Standard

MC4 BRANCH and MC4 T-TYPE

- Compliant with MC4 connector
- Compatible Cable : 2.5 mm², 4 mm² and 6 mm²
- Rated Voltage : 1000V 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

TOOL for SOLAR CONNECTOR

Part Number	Description	Figure
CB-1084	Crimping Tool for MC4 Connector	A
CB-1088	Assembly and unlocking tool for MC4 Connector	B



A



B



SOLAR CELL SOLUTION



CB-1002
MC4 Connector (Pair) 1500V, TUV Standard



CB-1010
MC4 T-Type, 4 to 1 Connector (Pair), 1500V, TUV Standard

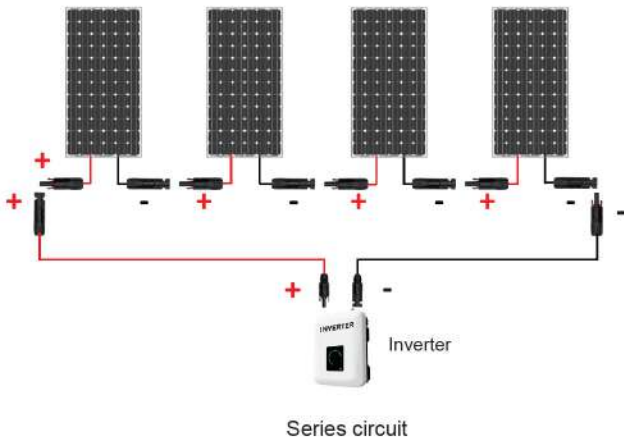


CB-1040B
Solar Cable, H1Z2Z2-K, 4.0 mm², Black



CB-1040R
Solar Cable, H1Z2Z2-K, 4.0 mm², Red

CIRCUIT of SOLAR CELL



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