

Master Tec[®]
Wire & Cable

SOLAR CABLES

Master Tec TÜV EN50618 H1Z2Z2-K DC 1.5KV 1x*mm²
IEC 62930:2017

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IEC 62930:2017

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TÜV EN50618 H1Z2Z2-K DC 1.5KV IEC 62930:2017



Advantages

- E-beam cross-linked compounds
- High resistance against UV, ozone and hydrolyzation
- High temperature resistance, materials will not melt or flow
- Flexibility under cold conditions
- Long usable life, expected usable life over 25 years (90°C)
- Applicable to all common connectors

Application

In a solar power system of rated voltage $U_0=1.5KV$, PV cables are used to connect between solar panels and inverters.

Construction

- Conductor : Soft tinned annealed copper according to IEC 60228, class 5
- Insulation : XLPO, flame retardant, halogen free, E-Beam cross-linked compounds
- Jacket : XLPO, flame retardant, halogen free, E-Beam cross-linked compounds, UV and ozone resistant, black/white marking
- Jacket color : All the chromatographic

Electrical performance

- Rated Voltage : $U_0=1.5KV$ DC
- Test Voltage : 6.5kV AC 5min

Thermal performance

- Operation temperature : $-40^{\circ}C \sim +120^{\circ}C$
- Ambient temperature : $-40^{\circ}C \sim +90^{\circ}C$
- Maximum short circuit temperature : $250^{\circ}C$, $+536^{\circ}F$, 5s

Bending radius

- Fixed setting : $>4 \times \phi$
- Moves on occasion : $>5 \times \phi$

Material characteristics / standard

- Fireproof performance : EN 60332-1-2
- Smoke emission : EN 61034-1; EN 61034-2
- Low fire load : DIN 51900
- Approval : TÜV EN50618
- Applied Standard : TÜV EN50618

Part Number	Size n X mm ²	Color	Structure mm	Outer Diameter mm	Maximum Resistance max.mΩ/m	Weight kg/km	Ampacity A
TD-H1Z272-K-1CX2.5	1 X 2.5	Black / Red	49/0.25	5.54	8.21	51.15	41
TD-H1Z272-K-1CX4	1 X 4.0	Black / Red	56/0.285	6.00	5.09	65.22	55
TD-H1Z272-K-1CX6	1 X 6.0	Black / Red	84/0.285	6.87	3.39	91.11	70
TD-H1Z272-K-1CX10	1 X 10.0	Black / Red	80/0.40	8.23	1.95	148.71	98
TD-H1Z272-K-1CX16	1 X 16.0	Black / Red	126/0.40	9.42	1.24	228.03	132
TD-H1Z272-K-1CX25	1 X 25.0	Black / Red	196/0.40	11.40	0.79	324.69	176
TD-H1Z272-K-1CX35	1 X 35.0	Black / Red	273/0.40	12.83	0.57	440.92	218

SOLAR CONNECTOR

Model: PV-ST101/M



Model: PV-ST101/F



Technical parameters of PV-ST101

Certification mark	TÜV UL
The diameter of the connection	1x4mm ² (12AWG)
Plug Housing (RTI)	PC (115°C)
Receptacle contact material	Copper/silver plated
Max. system voltage	1500VDC
Rated impulse voltage	8000VAC
Rated insulation voltage	16000VDC
Rated current	30A(1x4mm ² , 12AWG)
Waterproof grade	IP67
Temperature range	-40°C - 85°C
Flame retardance	UL94-VO
Weather-resistance	No serious appearance defects after Ultraviolet irradiation and humid heat test
Contact resistance	<0.35m Ω

PV INSTALLATION TOOLS

PV-TOPBOX-01



Solar Crimping Tool
PV-CT01



Solar Cable Stripping Tools
PV-CT02



Solar Cable Cutter
PV-CT03



MC4 PV Connector Spanner
PV-CT04



CERTIFICATION AND RECOGNITIONS

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50450053

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Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	Date of Issue
A.L.	01-SYF-15087164 005	13.01.2020	(day/month/year)

Genehmigungsinhaber <i>License Holder</i>	Fertigungsstätte <i>Manufacturing Plant</i>
Master Tec Wire & Cable Sdn Bhd RM1299-A, Kawasan Perindustrian Rembia, 78000 Alor Gajah, Melaka Malaysia	030-0000414147

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 50618:2014
IEC 62930:2017

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Cables (Electric Cables for Photovoltaic Systems)

Type Designation	: 704412	
Code Designation	: H1Z2Z2-K or 62930 IEC 131 Master Tec Wire & Cable Sdn Bhd	
Scope of Sizes	: 1X2,5...35mm ²	11
Rated Voltage	: DC 1,5kV AC 1,0/1,0kV	
Ambient Temperature	: -40°C to +90°C	
Max. Temperature at Conductor	: 120°C	

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Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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Zertifizierungsstelle



PRODUCT LIST

XLPE – Insulated Cables	PVC – Insulated Cables
Flexible Cables	LSZH Fire Resistant Cables
Instrumentation Cables	LSZH Flame Resistant Cables
Special Cables (Client's Special Request)	DC Cables
Fiber Optics	

COMPANY GENERAL INFORMATION

Company Name	:	Master Tec Wire & Cable Sdn Bhd
Company Registration No	:	705279-P
Country of Incorporation	:	Malaysia
Company Location	:	RM1299-A, Kawasan Perindustrian Rembia, 78000 Alor Gajah, Melaka, Malaysia
Corporate Sale Office	:	B-2-19, Block B Oasis Square, Jalan PJU 1A/7A, Ara Damansara, 47301 Petaling Jaya, Selangor
Principal Activities	:	Manufacturer of wire and cable
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