44428279	DATA SHEET	LAPP
Valid from: 13.12.2024	EPIC® SOLAR 4 GEN2 PATCH CORD	

Description

- Low contact-resistance for efficient power transmission
- Crimp connection for field mounting



General Characteristics

Series	EPIC® SOLAR 4 GEN2
Rated voltage	1500 V DC
Rated impulse voltage	16 kV
Contact resistance	< 0.5 mOhm
Flammability Class	V-0
Protection	IP 65 / IP 68, (1m/1h)
Protection class	II
Temperature range	-40°C to +85°C

Materials and Surfaces

Insulating Body	Polycarbonate
Nut	Polyamid
Contact	Copper alloy, tin plated

Cable Data:

Design

Design	Sheathed single core cable acc. to IEC 62930 and EN 50618
Code Designation	62930 IEC 131: 1x4 mm² to 1x10 mm² H1Z2Z2-K: 1x4 mm² to 1x10 mm²
Certification	TÜV Rheinland certificate with No. R 50598420 (62930 IEC 131) TÜV Rheinland certificate with No. R 5059841B (H1Z2Z2-K) EN 13501-6 and EN 50575 Classification of fire behaviour (article/dimension range see www.lappkabel.com/cpr)
Core insulation	cross-linked polyolefin co-polymer acc. to IEC 62930 and EN 50618, halogen free Colour: White
Outer sheath	cross-linked polyolefin co-polymer acc. to IEC 62930 and EN 50618, halogen free Colour: black or blue or red

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Electrical properties

Rated voltage U_0/U	1.0/1.0 kV AC RMS acc. to IEC 62930 and EN 50618 1.5/1.5 kV DC acc. to IEC 62930 and EN 50618
Max. permissible operating voltage	1.8 kV DC acc. to IEC 62930 and EN 50618
Test voltage	6.5 kV AC acc. to IEC 62930 and EN 50618
Current carrying rating	IEC 62930, Table A.3 & A.4 and EN 50618, Table A.3 & A.4

Mechanical and thermal properties

Minimum ambient temperature, fixed installation	-40 °C
Conductor temperature, fixed installation	up to +90 °C maximum conductor temperature during normal continuous operation acc. to IEC 62930 and EN 50618
Minimum temperature, during installation and handling	-25 °C acc. to IEC 62930 and EN 50618
Max. storage temperature	+45 °C acc. to IEC 62930 +40 °C acc. to EN 50618
Max. short circuit temperature	+250 °C (5s) acc. to IEC 62930 and EN 50618
Minimum bending radius, occasional flexing	15 x outer diameter
Minimum bending radius, stationary use	4 x outer diameter for outer diameter ≤ 8 mm 5 x outer diameter for outer diameter > 8 mm
Weather/UV resistance	acc. to IEC 62930, Appendix E and EN 50618, Appendix E
Ozone resistance	acc. to IEC 62930 and EN 50618
Halogen-free	acc. to IEC 62930 and EN 50618 acc. to IEC 60754-1 resp. EN 60754-1 and IEC 60754-2 resp. EN 60754-2
Smoke density	acc. to IEC 62930 and EN 50618 acc. to IEC 61034-2 resp. EN 61034-2
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
Acid and alkali resistance	acc. to IEC 62930 and EN 50618 acc. to IEC 60811-404 resp. EN 60811-404 (oxalic acid and sodium hydroxide solution)
Underground use	acc. to UL 854, Section 23 (Impact Resistance Test) acc. to UL 854, Section 24 (Crushing Resistance Test)
Presence of water	Permanent submersion AD8 acc. to IEC 62440 and IEC 60364-5-51, tested acc. to EN-50525-2-21, appendix D and E

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General Requirements

These cables are conform to the EU Directive 2014/35/EU (Low voltage Derectives) A part of these cables (see www.lappkabel.com/cpr) are classified acc.to the EU- Regulation no. 305/2011 (CPR).

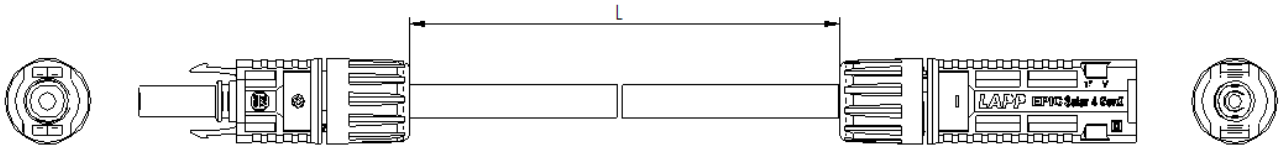
Environmental information

These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

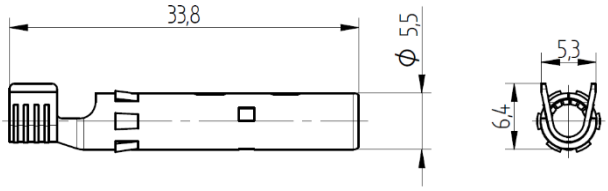
Article Number	Description	L = cable length
44428279	EPIC SOLAR 4 GEN2 PATCH 1M	1 m
44428280	EPIC SOLAR 4 GEN2 PATCH 2M	2 m
44428281	EPIC SOLAR 4 GEN2 PATCH 3M	3 m
44428282	EPIC SOLAR 4 GEN2 PATCH 4M	4 m
44428283	EPIC SOLAR 4 GEN2 PATCH 5M	5 m
44428284	EPIC SOLAR 4 GEN2 PATCH 6M	6 m
44428285	EPIC SOLAR 4 GEN2 PATCH 7M	7 m
44428286	EPIC SOLAR 4 GEN2 PATCH 8M	8 m
44428287	EPIC SOLAR 4 GEN2 PATCH 9M	9 m
44428288	EPIC SOLAR 4 GEN2 PATCH 10M	10 m
44428289	EPIC SOLAR 4 GEN2 PATCH 2,5M	2,5 m
44428997	EPIC SOLAR 4 GEN2 PATCH 1,5m	1,5 m
44428998	EPIC SOLAR 4 GEN2 PATCH 3,5m	3,5 m
44428999	EPIC SOLAR 4 GEN2 PATCH 4,5m	4,5 m
44428291	EPIC SOLAR 4 GEN2 PATCH 3,15m	3,15 m
44428292	EPIC SOLAR 4 GEN2 PATCH 0,5m	0,5 m

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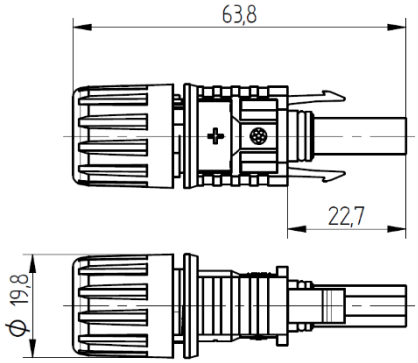
Technical Drawings



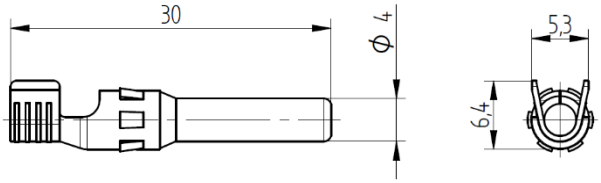
EPIC® SOLAR 4 GEN2 PIN F 4-6 mm²



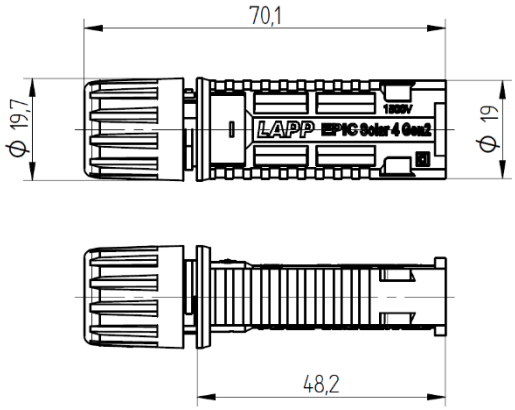
EPIC® SOLAR 4 GEN2 F



EPIC® SOLAR 4 GEN2 PIN M 4-6 mm²



EPIC® SOLAR 4 GEN2 M



Solar Energy

UV-resistant

Waterproof

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Info
4 mm connector system with double hook
Field-mountable solar connector

Application range
Photovoltaic plants
Crystalline and thin-film constructions
Solartracker

Product features
TÜV SÜD certified
Inclusive contacts

Remark
Photographs are not to scale and do not represent detailed images of the respective products.

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