



日燭科技有限公司
JD Auspice Co., Ltd.

Prysmian
Group

Cables for Photovoltaics





Linking the future

As the worldwide leader in the cable industry, Prysmian Group believes in the effective, efficient and sustainable supply of energy and information as primary driver in the development of communities.

With this in mind, we provide major global organisations in many industries with best-in-class cable solutions, based on state-of-the-art technology.

Through two renowned commercial brands - Prysmian and Draka - based in almost 100 countries, we're constantly close to our customers, enabling them to further develop the world's energy and telecoms infrastructures, and achieve sustainable, profitable growth.

In our energy business, we design, produce, distribute and install cables and systems for the transmission and distribution of power at low, medium, high and extra-high voltage.

In telecoms, the Group is a leading manufacturer of all types of copper and fibre cables, system and accessories - covering voice, video and transmission.

Drawing on over 140 years' experience and continuously investing in R&D, we apply excellence, understanding and integrity to everything we do, meeting and exceeding the precise needs of our customers across all continents, at the same time shaping the evolution of our industry.



What links sustainable ideas to real-world results?

Cable solutions to enable the production and supply of renewable energy

To meet an ever-growing need for power, the world is increasingly turning to renewable and sustainably sourced wind and solar energy. In response to this demand, Prysmian cables are helping businesses in the renewable industry around the globe convert these new opportunities into reality.

Our technologies - which cover cables used in wind turbine and tower operations, submarine inter-array, platform connection and export cables to link the various turbines and underground power transmission and distribution cable system for wind

power applications - are at work across the renewables sector, supporting the operations of turbine manufacturers, contractors and developers, grid operators, system integrators and panel makers.

Always aware of our responsibility to the planet, we're constantly driving innovation in our industry, aiming to help renewable industry partners deliver projects with benefits for the future of both our world and their businesses.





TECSUN(PV) PV1-F 0,6/1kV AC (1,5kV DC)



TECSUN(PV) PV1-F 0,6/1kV AC (1,5kV DC) PV cables, rubber insulated



Application

PRYSMIAN Solar cables TECSUN (PV) PV1-F acc. to TÜV 2PFG 1169/08.2007, are intended for use in Photovoltaic Power Supply Systems at nominal voltage rate up to 1,5kV DC.

They are suitable for applications indoor and/or outdoor, in industrial and agriculture fields, in/at equipment with protective insulation (Protecting Class II) and in explosion hazard areas (PRYSMIAN Internal Testing). They may be installed fixed, freely suspended or free movable, in cable trays, conduits, on and in walls.

TECSUN(PV) cables are also suitable for direct burial (PRYSMIAN Internal Testing), where the corresponding guidelines for direct burial shall be considered.

Global data

| | |
|----------------------------|--------------------------|
| Brand | TECSUN(PV) |
| Type designation | PV1-F |
| Standard | TÜV 2 PFG 1169/08.2007 |
| Certifications / Approvals | TÜV Cert.-No. R 60013989 |

Design features

| | |
|---------------------|--|
| Conductor | Electrolytic tinned copper, Class 5 in accordance with IEC 60228 (VDE 0295) |
| Insulation | Cross-linked HEPR 120°C (compound type EI6/EI8) |
| Outer sheath | Cross-linked EVA rubber 120°C (compound type EM4/EM8). Insulation and sheath are solidly bonded (Two layer-insulation) |
| Outer Sheath Colour | Black |

Electrical parameters

| | |
|---------------------------------------|--|
| Rated voltage | 0.6/1 kV (600/1000V) |
| Maximum PV-System voltage | DC up to 2000 V possible |
| Max. permissible operating voltage AC | 0.7/1.2 kV |
| Max. permissible operating voltage DC | 0.9/1.8 kV |
| Test voltage | AC: 6,5 kV / DC: 15 kV (5 Min.) |
| Current Carrying Capacity description | Meets requirements for PV-Wire per TÜV 2 PFG 1169/08.2007 |
| Electrical Tests | TÜV 2PFG 1169/08.2007: meets VDE 0282 Section 2, HD 22.2 and EN 50395 Conductor Resistance, Test Voltages AC and DC, Electric Strength, Surface Resistance, Spark Test on Insulation, EN 50305 Part 6 DC stability (10 days, 85° C, salt water, 1500 V DC), Insulation Resistance at 20° C and 90° C in Water. PRYSMIAN Internal Testing: Insulation Resistance at 120° C in Air. |

TECSUN(PV) PV1-F 0,6/1kV AC (1,5kV DC)

PV cables, rubber insulated



Chemical parameters

| | |
|------------------------------|---|
| Resistance to fire | TÜV 2 PFG 1169/08.2007: <ul style="list-style-type: none"> • Flame propagation acc. to IEC 60332-1-2, DIN EN 60332-1-2 (Single Cable Flame Test) • Halogen-free acc. to IEC 60754-1 • No Corrosivity acc. to IEC 60754-2 PRYSMIAN Internal Testing: <ul style="list-style-type: none"> • Multiple Cable Flame Test acc. to DIN EN 50305-9 • Low Smoke Emission acc. to IEC 61034, EN 61034 (Light Transmittance > 70%) • Low Toxicity acc. to DIN EN 50305, ITC < 3 |
| Resistance to oil | Acc. to VDE 0473-811-404, DIN EN 60811-404, 24h 100° C |
| Weather resistance | TÜV 2PFG 1169/08.2007: <ul style="list-style-type: none"> • Ozone resistance: acc. to DIN EN 50396 Test Type B, HD 22.2 Test Type B • UV-Resistance: acc. to UL 1581 (Xeno-Test), ISO 4892-2 (Method A) and HD605/A1-2.4.20 PRYSMIAN Internal Testing: <ul style="list-style-type: none"> • Absorption of Water (Gravimetric) per DIN EN 60811-1-3 |
| Acid and alkaline resistance | Meets TÜV 2 PFG 1169/08.2007: 7 days, 23° C (N-Oxalic Acid, N-Sodium Hydroxide) as per EN 60811-404 |
| Ammonia Resistance | 30 days in Saturated Ammonia Atmosphere (PRYSMIAN Internal Testing) |
| Environmentally Friendly | TECSUN(PV) cables comply with RoHS directives 2011/65/EU of the European Union |

Thermal parameters

| | |
|---|--|
| Max. operating temperature of the conductor | Max. 90°C at the conductor (lifetime acc. to Arrhenius-Diagram = 30 years). 20.000 hours of operation at conductor temperature of 120°C (and 90°C ambient temperature) are permitted. |
| Max. short circuit temperature of the conductor | 250 °C (5 s.) |
| Ambient temperature for fixed installation | min -40 °C ; max +90 °C |
| Ambient temperature in fully flexible operation | min -40 °C ; max +90 °C |
| Resistance to cold | Cold Bend Test at -40° C temperature per DIN EN 60811-1-4. Impact Test -40° C temperature similar to DIN EN 50305 |
| Damp-Heat Test | Meets TÜV 2 PFG 1169/08.2007 and EN 60068-2-78: 1.000 h at 90° C and 85% humidity |

Mechanical parameters

| | |
|-----------------------------------|---|
| Max. tensile load | 15 N/mm ² in operation, 50 N/mm ² during installation |
| Min. bending radius | 4 x D |
| Abrasion resistance | PRYSMIAN Internal Testing: <ul style="list-style-type: none"> • Acc. to DIN ISO 4649 against abrasive paper • Sheath against sheath • Sheath against metal • Sheath against plastics |
| Shrinkage Test | Meets TÜV 2PFG 1169/08.2007 <2% acc. to EN 60811-1-3 |
| Pressure Test at High Temperature | Meets TÜV 2PFG 1169/08.2007 <50% acc. to EN 60811-3-1 |
| Dynamic Penetration Test | Meets requirements as per TÜV 2 PFG 1169/08.2007 |
| Shore-Hardness | Type A: min. 85 nach DIN EN ISO 868 (PRYSMIAN Internal Testing) |
| Rodent resistance | Safety can be optimized by utilizing protective hoses, or protective element, such as a metallic screen braid. |

Datasheet

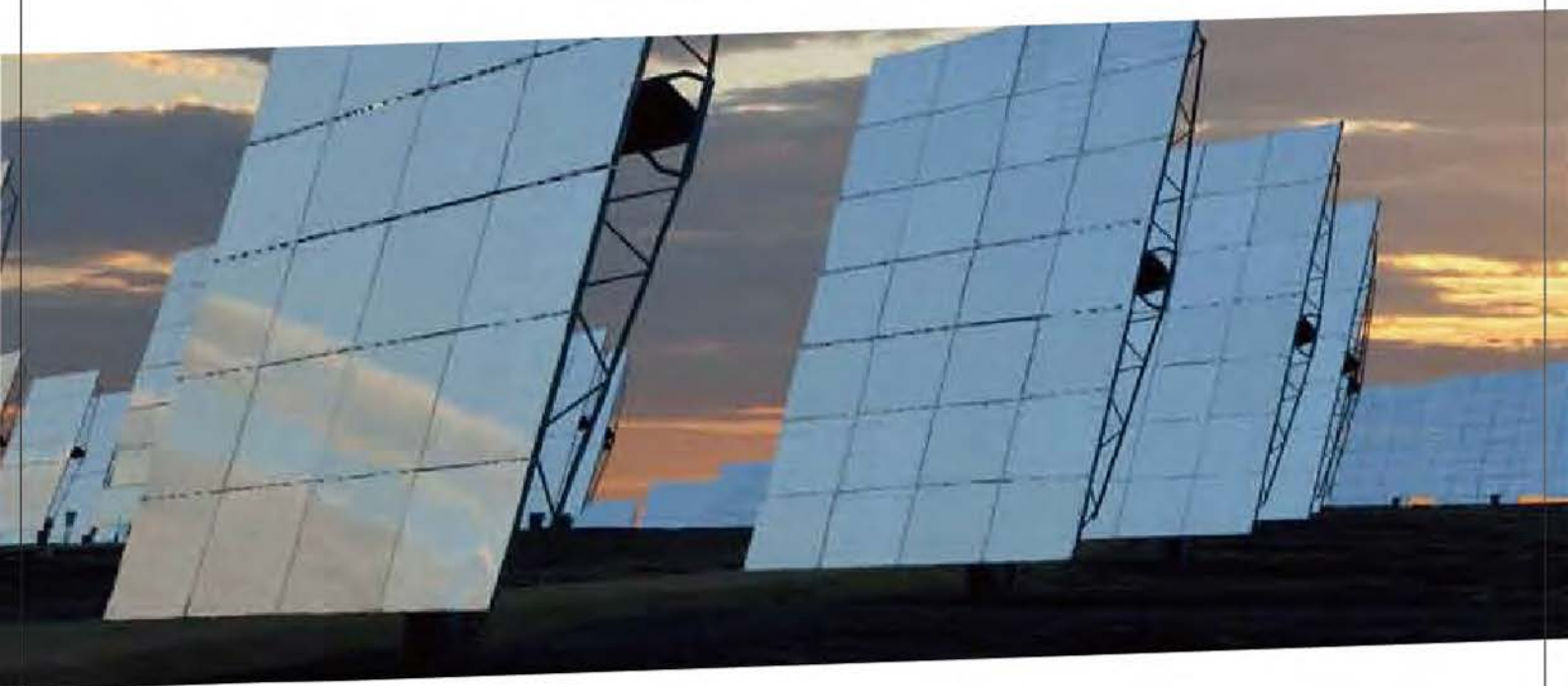
| Number of cores x cross section | Colour | Conductor diameter max. mm | Outer diameter min. mm | Outer diameter max. mm | Bending radius fixed min. mm | Weight (ca.) kg/km | Permissible tensile force max. N | Conductor resistance at 20°C max. Ω/km | Current carrying capacity for single cable free in air (60°C ambient temp.) A | Current carrying capacity for single cable on a surface (60°C ambient temp.) A | Short Circuit Current (1s. from 90°C to 250°C) kA |
|---------------------------------|--------|----------------------------|------------------------|------------------------|------------------------------|--------------------|----------------------------------|--|---|--|---|
| 1x1,5 | black | 1.6 | 4.4 | 4.8 | 14.4 | 34 | 23 | 13.7 | 30 | 29 | 0.21 |
| 1x2,5 | black | 1.9 | 4.7 | 5.1 | 15.3 | 44 | 38 | 8.21 | 41 | 39 | 0.36 |
| 1x4 | black | 2.4 | 5.2 | 5.6 | 16.8 | 59 | 60 | 5.09 | 55 | 52 | 0.57 |
| 1x6 | black | 2.9 | 5.7 | 6.13 | 18.3 | 81 | 90 | 3.39 | 70 | 67 | 0.86 |
| 1x10 | black | 4 | 6.8 | 7.2 | 21.6 | 120 | 150 | 1.95 | 98 | 93 | 1.43 |
| 1x16 | black | 5.6 | 8.3 | 8.9 | 36 | 190 | 240 | 1.24 | 132 | 125 | 2.29 |
| 1x25 | black | 6.4 | 10 | 10.7 | 43 | 280 | 375 | 0.795 | 176 | 167 | 3.58 |
| 1x35 | black | 7.5 | 11.1 | 11.8 | 47 | 380 | 525 | 0.565 | 218 | 207 | 5.01 |
| 1x50 | black | 9 | 12.6 | 13.3 | 53 | 530 | 750 | 0.393 | 276 | 262 | 7.15 |
| 1x70 | black | 10.8 | 14.8 | 15.8 | 61 | 720 | 1050 | 0.277 | 347 | 330 | 10.01 |
| 1x95 | black | 12.6 | 16.2 | 17 | 68 | 900 | 1425 | 0.21 | 416 | 395 | 13.59 |
| 1x120 | black | 14.2 | 17.7 | 18.7 | 75 | 1150 | 1800 | 0.164 | 488 | 464 | 17.16 |
| 1x150 | black | 15.8 | 19.7 | 20.7 | 83 | 1420 | 2250 | 0.132 | 566 | 538 | 21.45 |
| 1x185 | black | 17.4 | 21.3 | 22.3 | 89 | 1710 | 2775 | 0.108 | 644 | 612 | 26.46 |
| 1x240 | black | 20.4 | 24.2 | 25.5 | 102 | 2200 | 3600 | 0.082 | 775 | 736 | 34.32 |



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TECSUN(PV) H1Z2Z2-K 1/1kV AC (1,5/1,5kV DC)



TECSUN(PV) H1Z2Z2-K 1/1kV AC (1,5/1,5kV DC) PV cables, rubber insulated, TÜV and VDE certified as per EN 50618



Application

PRYSMIAN Solar cables TECSUN (PV) H1Z2Z2-K acc. to EN 50618, are intended for use in Photovoltaic Power Supply Systems at nominal voltage rate up to 1,5/1,5kV DC.

They are suitable for applications indoor and/or outdoor, in industrial and agriculture fields, in/at equipment with protective insulation (Protecting Class II), in explosion hazard areas (PRYSMIAN Internal Testing). They may be installed fixed, freely suspended or free movable, in cable trays, conduits, on and in walls.

TECSUN(PV) H1Z2Z2-K cables are suitable for direct burial (PRYSMIAN Internal Testing), where the corresponding guidelines for direct burial shall be considered.

Global data

| | |
|----------------------------|------------------------------|
| Brand | TECSUN(PV) |
| Type designation | H1Z2Z2-K |
| Standard | DIN EN 50618 |
| Certifications / Approvals | TÜV-Certificate nr. 50360241 |

Design features

| | |
|---------------------|--|
| Conductor | Electrolytic tinned copper, finely stranded class 5 in accordance with IEC 60228 |
| Insulation | Cross-linked HEPR 120°C |
| Outer sheath | Cross-linked EVA rubber 120°C. Insulation and sheath are solidly bonded (Two-layer-insulation) |
| Outer Sheath Colour | Black |

Electrical parameters

| | |
|---------------------------------------|---|
| Rated voltage | DC: 1,5/1,5 kV |
| Maximum PV-System voltage | AC: 1,0/1,0 kV |
| Max. permissible operating voltage AC | 1,2/1,2 kV |
| Max. permissible operating voltage DC | 1,8/1,8 kV |
| Test voltage | AC: 6,5 kV / DC: 15 kV (5 Min.) |
| Current Carrying Capacity description | According to EN 50618, Table A-3 |
| Electrical Tests | Acc. to EN 50618, Table 2: • Conductor Resistance; • Voltage Test on completed cable (AC and DC); • Spark Test on insulation; Insulation Resistance (at 20°C and 90°C in water); • Insulation Long-Term Resistance to DC (10 days, in 85°C water, 1,8 kV DC); • Surface Resistance of Sheath. PRYSMIAN internal test: • Dielectric Strength; • Insulation Resistance at 120°C in air. |

TECSUN(PV) H1Z2Z2-K 1/1kV AC (1,5/1,5kV DC) PV cables, rubber insulated, TÜV and VDE certified as per EN 50618



Chemical parameters

| | |
|------------------------------|--|
| Reaction to fire | <p>Acc. to EN 50618, Table 2:</p> <ul style="list-style-type: none"> • Single Cable Flame Test per EN 60332-1-2; • Low Smoke Emission per EN 61034-2 (Light Transmittance > 70%); • Halogen-free per EN 50525-1, Annex B. <p>PRYSMIAN internal test:</p> <ul style="list-style-type: none"> • Multiple Cable Flame Test per EN 50305-9; • Low Toxicity per EN 50305 (ITC < 3). |
| Resistance to oil | <p>PRYSMIAN internal test, on sheath:</p> <ul style="list-style-type: none"> • 24h, 100°C (meets VDE 0473-811-404, EN 60811-404). |
| Weather resistance | <p>Acc. to EN 50618, Annex E and Table 2:</p> <ul style="list-style-type: none"> • UV Resistance on sheath: tensile strength and elongation at break after 720h (360 Cycles) of exposure to UV lights acc. to EN 50289-4-17, Method A; • Ozone resistance: per Test Type B (DIN EN 50396). <p>PRYSMIAN internal test:</p> <ul style="list-style-type: none"> • Water Absorption (Gravimetric) per DIN EN 60811-402. |
| Acid and alkaline resistance | <p>Acc. to EN 50618, Annex B:</p> <ul style="list-style-type: none"> • 7 days, 23°C (N-Oxalic Acid, N-Sodium Hydroxide) acc. to EN 60811-404. |
| Ammonia Resistance | <p>PRYSMIAN Internal Testing:</p> <ul style="list-style-type: none"> • 30 days in Saturated Ammonia Atmosphere. |
| Environmentally Friendly | <p>TECSUN(PV) cables comply with the RoHS directive 2011/65/EU of the European Union.</p> |

Thermal parameters

| | |
|--|---|
| Max. operating temperature of the conductor | <p>Max. 90°C at conductor (lifetime acc. to Arrhenius-Diagram TECSUN = 30 years). 20.000 hours of operation at conductor temperature of 120°C (and 90°C ambient temperature) are permitted.</p> |
| Max. short circuit temperature of the conductor Ambient temperature (for fixed and flexible installation) | <p>250 °C (5 s) Installation and handling: -25°C up to 60°C In operation: -40°C up to +90°C</p> |
| Resistance to cold | <p>Acc. to EN 50618, Table 2:</p> <ul style="list-style-type: none"> • Cold Bending Test at -40°C acc. to DIN EN 60811-504; • Cold Elongation Test at -40°C acc. to DIN EN 60811-505; • Cold Impact Test at -40°C acc. to DIN EN 60811-506 and EN 50618 Annex C. |
| Damp-Heat Test | <p>Acc. to EN 50618, Table 2:</p> <ul style="list-style-type: none"> • 1.000h at 90°C and 85% humidity (test acc. to EN 60068-2-78). |

Mechanical parameters

| | |
|-----------------------------------|---|
| Max. tensile load | <p>15 N/mm² in operation, 50 N/mm² during installation</p> |
| Min. bending radius | <p>Acc. to EN 50565-1</p> |
| Abrasion resistance | <p>PRYSMIAN Internal Testing:</p> <ul style="list-style-type: none"> • Acc. to DIN ISO 4649 against abrasive paper; • Sheath against sheath; • Sheath against metal; • Sheath against plastics. |
| Shrinkage Test | <p>Acc. to EN 50618, Table 2:</p> <ul style="list-style-type: none"> • Maximum Shrinkage <2% (test acc. to EN 60811-503). |
| Pressure Test at High Temperature | <p>PRYSMIAN Internal Testing:</p> <ul style="list-style-type: none"> • <50% acc. to EN 60811-508. |
| Dynamic Penetration Test | <p>Acc. to EN 50618, Annex D:</p> <ul style="list-style-type: none"> • Meets requirements of EN 50618. |
| Shore-Hardness | <p>PRYSMIAN Internal Testing:</p> <ul style="list-style-type: none"> • Type A: 85 acc. to DIN EN ISO 868 |
| Durability of Print | <p>Acc. to EN 50618:</p> <ul style="list-style-type: none"> • Test acc. to EN 50396. |
| Rodent resistance | <p>Safety can be optimized by utilizing protective hoses, or protective element, such as a metallic screen braid.</p> |

Datasheet

| Number of cores x cross section | Colour | Conductor diameter max. mm | Outer diameter min. mm | Outer diameter max. mm | Bending radius fixed min. mm | Weight (approx.) kg/km | Permissible tensile force max. N | Conductor resistance at 20°C max. Ω/km | Current carrying capacity for single cable free in air (60°C ambient temp.) A | Current carrying capacity for single cable on a surface (60°C ambient temp.) A | Short Circuit Current (1s. from 90°C to 250°C) kA |
|---------------------------------|--------|----------------------------|------------------------|------------------------|------------------------------|------------------------|----------------------------------|--|---|--|---|
| 1x1,5 | black | 1.6 | 4.4 | 5.2 | 15 | 35 | 23 | 13.7 | 30 | 29 | 0.21 |
| 1x2,5 | black | 1.9 | 4.9 | 5.7 | 17 | 46 | 38 | 8.21 | 41 | 39 | 0.36 |
| 1x4 | black | 2.4 | 5.4 | 6.2 | 18 | 61 | 60 | 5.09 | 55 | 52 | 0.57 |
| 1x6 | black | 2.9 | 5.9 | 6.7 | 20 | 80 | 90 | 3.39 | 70 | 67 | 0.86 |
| 1x10 | black | 4 | 7.1 | 7.8 | 23 | 122 | 150 | 1.95 | 98 | 93 | 1.43 |
| 1x16 | black | 5.6 | 9 | 9.8 | 30 | 200 | 240 | 1.24 | 132 | 125 | 2.29 |
| 1x25 | black | 6.4 | 10.4 | 11.5 | 34 | 290 | 375 | 0.795 | 176 | 167 | 3.58 |
| 1x35 | black | 7.5 | 11.7 | 12.8 | 50 | 400 | 525 | 0.565 | 218 | 207 | 5.01 |
| 1x50 | black | 9 | 13.5 | 14.5 | 58 | 560 | 750 | 0.393 | 276 | 262 | 7.15 |
| 1x70 | black | 10.8 | 15.5 | 16.5 | 66 | 750 | 1050 | 0.277 | 347 | 330 | 10.01 |
| 1x95 | black | 12.6 | 17.7 | 18.7 | 75 | 970 | 1425 | 0.21 | 416 | 395 | 13.59 |
| 1x120 | black | 14.2 | 19.2 | 20.4 | 82 | 1220 | 1800 | 0.164 | 488 | 464 | 17.16 |
| 1x150 | black | 15.8 | 21.4 | 22.6 | 91 | 1500 | 2250 | 0.132 | 566 | 538 | 21.45 |
| 1x185 | black | 17.4 | 23.7 | 25.1 | 101 | 1840 | 2775 | 0.108 | 644 | 612 | 26.46 |
| 1x240 | black | 20.4 | 27.1 | 28.5 | 114 | 2400 | 3600 | 0.082 | 775 | 736 | 34.32 |



PRYSUN H1Z2Z2-K 1/1kV AC (1.5/1.5kV DC)



PRYSUN H1Z2Z2-K 1/1kV AC (1.5/1.5kV DC) PV cables, elastomer insulated Per EN50618



Application

Designed and tested acc. to EN50618:2014, PRYSMIAN Solar cables PRYSUN H1Z2Z2-K are intended for use in Photovoltaic Power Supply Systems: Indoor and/or outdoor, in industrial and agriculture fields. They are suitable for applications in/at equipment with protective insulation (Protecting Class II), and may be installed as fixed or freely suspended or free movable. Installation in cable trays, conduits, on and in walls is permissible.

Global data

| | |
|----------------------------|-----------------------------|
| Brand | PRYSUN |
| Type designation | H1Z2Z2-K |
| Standard | Refer to EN50618:2014 |
| Certifications / Approvals | TÜV-Certificate nr.50430405 |

Design features

| | |
|---------------------|---|
| Conductor | Class 5 Tinned copper conductor |
| Insulation | Halogen free cross-linked elastomer Natural color - white or Red |
| Outer sheath | Halogen free cross-linked elastomer |
| Outer Sheath Colour | Black or Red |

Electrical parameters

| | |
|---------------------------------------|--|
| Rated voltage | DC: 1,5/1,5 kV |
| Maximum PV-System voltage | AC: 1,0/1,0 kV |
| Max. permissible operating voltage AC | 1,2/1,2 kV |
| Max. permissible operating voltage DC | 1,8/1,8 kV |
| Test voltage | AC: 6,5 kV / DC: 15 kV (5 Min.) |
| Current Carrying Capacity description | According to EN 50618, Table A-3 |
| Electrical Tests | Acc. to EN 50618, Table 2: • Conductor Resistance; • Voltage Test on completed cable (AC and DC); • Spark Test on insulation; Insulation Resistance (at 20°C and 90°C in water); • Insulation Long-Term Resistance to DC (10 days, in 85°C water, 1,8 kV DC); • Surface Resistance of Sheath. |

PRYSUN H1Z2Z2-K 1/1kV AC (1.5/1.5kV DC) PV cables, elastomer insulated Per EN50618



Chemical parameters

| | |
|------------------------------|--|
| Reaction to fire | Acc. to EN 50618, Table 2: <ul style="list-style-type: none"> • Single Cable Flame Test per EN 60332-1-2; • Low Smoke Emission per EN 61034-2 (Light Transmittance > 70%); • Halogen-free per EN 50525-1, Annex B. |
| Weather resistance | Acc. to EN 50618, Annex E and Table 2: <ul style="list-style-type: none"> • UV Resistance on sheath: tensile strength and elongation at break after 720h (360 Cycles) of exposure to UV lights acc. to EN 50289-4-17, Method A; • Ozone resistance: per Test Type B (EN 50396). |
| Acid and alkaline resistance | Acc. to EN 50618, Annex B: <ul style="list-style-type: none"> • 7 days, 23°C (N-Oxalic Acid, N-Sodium Hydroxide) acc. to EN 60811-404. |

Thermal parameters

| | |
|--|---|
| Max. operating temperature of the conductor | Max. 90°C at conductor. 20.000 hours of operation at conductor temperature of 120°C (and 90°C ambient temperature) are permitted. |
| Max. short circuit temperature of the conductor Ambient temperature (for fixed and flexible installation) | 250 °C (5 s) Installation and handling: -25°C up to 60°C In operation: -40°C up to +90°C |
| Resistance to cold | Acc. to EN 50618, Table 2: <ul style="list-style-type: none"> • Cold Bending Test at -40°C acc. to DIN EN 60811-504; • Cold Elongation Test at -40°C acc. to DIN EN 60811-505; • Cold Impact Test at -40°C acc. to DIN EN 60811-506 and EN 50618 Annex C. |
| Damp-Heat Test | Acc. to EN 50618, Table 2: <ul style="list-style-type: none"> • 1.000h at 90°C and 85% humidity (test acc. to EN 60068-2-78). |

Mechanical parameters

| | |
|--------------------------|---|
| Max. tensile load | 15 N/mm ² in operation, 50 N/mm ² during installation |
| Min. bending radius | Acc. to EN 50565-1 |
| Shrinkage Test | Acc. to EN 50618, Table 2: <ul style="list-style-type: none"> • Maximum Shrinkage <2% (test acc. to EN 60811-503). |
| Dynamic Penetration Test | Acc. to EN 50618, Annex D: <ul style="list-style-type: none"> • Meets requirements of EN 50618. |
| Durability of Print | Acc. to EN 50618: <ul style="list-style-type: none"> • Test acc. to EN 50396. |



Datasheet

| Number of cores x cross section | Colour | Conductor diameter max. mm | Outer diameter min. mm | Outer diameter max. mm | Bending radius fixed min. mm | Weight (approx.) kg/km | Permissible tensile force max. N | Conductor resistance at 20°C max. Ω/km | Current carrying capacity for single cable free in air (60°C ambient temp.) A | Current carrying capacity for single cable on a surface (60°C ambient temp.) A | Short Circuit Current (1s. from 90°C to 250°C) kA |
|---------------------------------|--------|----------------------------|------------------------|------------------------|------------------------------|------------------------|----------------------------------|--|---|--|---|
| 1x1,5 | black | 1.6 | 4.4 | 5.2 | 15 | 35 | 23 | 13.7 | 30 | 29 | 0.21 |
| 1x2,5 | black | 1.9 | 4.9 | 5.7 | 17 | 47 | 38 | 8.21 | 41 | 39 | 0.36 |
| 1x4 | black | 2.4 | 5.4 | 6.2 | 18 | 61 | 60 | 5.09 | 55 | 52 | 0.57 |
| 1x6 | black | 2.9 | 5.9 | 6.4 | 20 | 81 | 90 | 3.39 | 70 | 67 | 0.86 |
| 1x10 | black | 4 | 7.1 | 7.8 | 23 | 124 | 150 | 1.95 | 98 | 93 | 1.43 |
| 1x16 | black | 5.6 | 9 | 9.8 | 30 | 190 | 240 | 1.24 | 132 | 125 | 2.29 |
| 1x25 | black | 6.4 | 10.4 | 11.5 | 34 | 285 | 375 | 0.795 | 176 | 167 | 3.58 |
| 1x35 | black | 7.5 | 11.7 | 12.8 | 50 | 380 | 525 | 0.565 | 218 | 207 | 5.01 |
| 1x50 | black | 9 | 13.5 | 14.5 | 58 | 535 | 750 | 0.393 | 276 | 262 | 7.15 |
| 1x70 | black | 10.8 | 15.5 | 16.5 | 66 | 745 | 1050 | 0.277 | 347 | 330 | 10.01 |
| 1x95 | black | 12.6 | 17.7 | 18.7 | 75 | 965 | 1425 | 0.21 | 416 | 395 | 13.59 |
| 1x120 | black | 14.2 | 19.2 | 20.4 | 82 | 1211 | 1800 | 0.164 | 488 | 464 | 17.16 |
| 1x150 | black | 15.8 | 21.4 | 22.6 | 91 | 1481 | 2250 | 0.132 | 566 | 538 | 21.45 |
| 1x185 | black | 17.4 | 23.7 | 25.1 | 101 | 1822 | 2775 | 0.108 | 644 | 612 | 26.46 |
| 1x240 | black | 20.4 | 27.1 | 28.5 | 114 | 2353 | 3600 | 0.082 | 775 | 736 | 34.32 |



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