

DESCAFLEX SOLAR PV1-F

2,50 mm² - 35,00 mm²

Halogen-free Solar Cables 90°C, TÜV approved

Application

Flexible, weather resistant power cables especially designed for the demanding in photovoltaic systems, as connecting cable between solar modules and between modules and inverters, suitable for rooftop and ground mounted systems, for laying outdoors, indoors and in pipe conducts, double insulated and therefore suitable for use in installations of safety class II.

Construction

Flexible tinned copper conductors acc. to IEC 60228, class 5
Insulation halogen-free crosslinked Polyolefin
Sheath special halogen-free, crosslinked compound, flame retardant

Special Characteristics

The cables have an excellent UV resistance acc. to HD 605/A1, they are weather- and ozone resistant acc. to EN 50396, the acid and alkali resistance acc. to IEC/EN 60811-2-1 and the oil resistance are excellent. They are cold-resistant acc. to IEC/EN 60811-1-4 and meet high requirements on abrasion and wear resistance. The cables are microbes-, ammonia- and hydrolysis - resistant and have low water absorption.

Properties in case of fire

| | |
|---------------------|-------------------------------|
| Halogen-free/ Proof | EN 50267-2-1 / IEC/EN 60684-2 |
| Gases corrosivity | EN 50267-2-2 |
| Flame retardant | IEC 60332-1-2 |
| Smoke density | IEC/EN 61034 |

| Cross section mm ² | Overall-Ø ca. mm | Copper kg/km | Weight kg/km |
|----------------------------------|---------------------|-----------------|-----------------|
| 2,50 | 4.60 | 24.00 | 36.00 |
| 4,00 | 5.70 | 38.40 | 60.00 |
| 6,00 | 5.80 | 57.60 | 75.00 |
| 10,00 | 7.50 | 96.00 | 130.00 |
| 16,00 | 8.50 | 153.60 | 185.00 |
| 25,00 | 9.80 | 240.00 | 268.00 |
| 35,00 | 10.90 | 336.00 | 363.00 |

Colour scheme see next page



Technical Properties

| | |
|----------------------------------|--|
| Rated voltage U ₀ /U | 0,6 / 1 kV AC 0,9 / 1,5 kV DC |
| Maximum voltage U _{max} | 1,8 kV* |
| Test voltage | 6,5 kV AC acc. to EN 50395 |
| Operating temperature | - 40°C ... + 90°C |
| Max. conductor temperature | 120°C (20000h) acc. to IEC/EN 60216-1 |
| Minimum bending radius | 4 x cable diameter |
| Expected lifetime | >25 years acc. to IEC/EN 60216-1 |

*conductor/conductor, non earthed system, circuit not under load

Standards / Approvals

TÜV approved

| Packaging | Dimension |
|-----------|-----------------------|
| Drum | cut to desired length |
| Drum | cut to desired length |
| Drum | cut to desired length |
| Drum | cut to desired length |
| Drum | cut to desired length |
| Drum | cut to desired length |
| Drum | cut to desired length |

on request

other packaging

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| Sheath Insulation | black white (ecru) | red white (ecru) | blue white (ecru) | black red | black blue |
|-----------------------|-----------------------|---------------------|----------------------|--------------|---------------|
| 2,50 mm ² | 152206 | 152207 | 152208 | 152209 | 152210 |
| 4,00 mm ² | 152212 | 152213 | 152214 | 152215 | 152216 |
| 6,00 mm ² | 152218 | 152219 | 152220 | 152221 | 152222 |
| 10,00 mm ² | 152224 | 152225 | 152226 | 152227 | 152228 |
| 16,00 mm ² | 152230 | 152231 | 152232 | 152233 | 152234 |
| 25,00 mm ² | 152236 | 152237 | 152238 | 152239 | 152240 |
| 35,00 mm ² | 152242 | 152243 | 152244 | 152245 | 152246 |

Colour scheme



on request



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other packaging