

Technical Data Sheet

Electrical Cable

Dimensions , Requirements & Examinations



Title: KBE Solar DB+ 6,00 mm²

Art. – No.: 730600015060QU

Conductor

- | | |
|----------------------|-----------------------------------|
| • Material | E-Cu tinned, DIN EN 60228 Class 5 |
| • Construction | 80 x 0,31 mm max. |
| • Conductor diameter | 3,90 mm max. |
| • Resistance | 3,39 mΩ/m max. |

Insulation Core

- | | |
|---------------------|------------------------|
| • Material | Crosslinked Polyolefin |
| • Minimal Thickness | 0,53 mm min. |

Insulation Jacket

- | | |
|---------------------|--------------------------------|
| • Material | Crosslinked Spezial Polyolefin |
| • Minimal Thickness | 0,58 mm min. |
| • Outer diameter | 6,00 ± 0,2 mm |

Manufacturer`s identification

KBE SOLAR DB+ 6,00 MM2 H1Z2Z2-K
EN 50618 TUV CE MADE IN GERMANY

Requirements & Examinations

EN 50618

- | | |
|---------------------------------|----------------------------------------------------------|
| • Temperature range | - 40 °C to + 90 °C (for fixed and flexible installation) |
| • max. Temperature at conductor | + 120°C (20.000 h, 50 % residual elongation) |
| • Rated voltage U0/U | AC 1,0 / 1,0 kV
DC 1,5 / 1,5 kV |
| • Resistance | weather-resistant and UV-resistance |

Other properties

- | | |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • Direct Burial | KBE-internal test according to UL 854 (Impact-Resistance test and Crushing - Resistance test)
Installation instructions: DIN VDE 50174-1; § 5.2.4 and DIN VDE 0891 Part 6 § 4.2 |
| • max. permissible operating voltage AC | 1,2 / 1,2 kV |
| • max. permissible operating voltage DC | 1,8 / 1,8 kV |
| • max. PV system voltage | up to 2,0 kV DC possible |
| • Long-term insulation resistance in water | 90 °C; 12 Weeks; 2000 V DC > 3 GΩ·m (following to UL 44) |
| • Cable weight | ca. 75 g/m |

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The data sheet is not subject to the revision service

KBE Elektrotechnik GmbH

Symeonstraße 8 * 12279 Berlin * Germany * tel.: +49(0)30/25208-100 * fax.: +49(0)30/25208-100

* info@kbe-elektrotechnik.com * www.kbe-elektrotechnik.com