

Technical Data Sheet

Electrical Cable

Dimensions , Requirements & Examinations



Title: KBE Solar DB+ 4,00 mm²

Art. – No.: 730400015060QU

Conductor

- Material E-Cu tinned, DIN EN 60228 Class 5
- Construction 56 x 0,31 mm max.
- Conductor diameter 3,00 mm max.
- Resistance 5,09 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 5,50 ± 0,2 mm

Manufacturer's identification

KBE SOLAR DB+ 4,00 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. 56 g/m

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The data sheet is not subject to the revision service

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