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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