

Technical Document
Solar Cable H1Z2Z2-K TÜV
4.0mm² - 6.0mm² LSNH Black

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Description: Solar Cable TÜV Approved H1Z2Z2-K
Double Insulated LSNH Black/Black
4.0mm² - 6.0mm²



Product Construction

Conductor Material	:	Tinned Copper
Conductor Stranding	:	Class 5 to BS EN 60228
Insulation Material 1	:	Low Smoke Non-Halogen (LSNH)
Insulation Colour 1	:	Black
Insulation Material 2	:	Low Smoke Non-Halogen (LSNH)
Insulation Colour 12	:	Black

Mechanical Characteristics

Overall Diameter	:	See Table Below
Temperature Range Fixed	:	-40°C to +90°C
Max. Conductor Temperature	:	+120°C (for 20,000 hours)
Min. Bend Radius	:	5 x Overall Diameter
Weight	:	See Table Below

Electrical Characteristics

Inner Conductor DC Resistance	:	See Table Below
Nominal Voltage Rating	:	1.0 kV (AC), 1.5 kV (DC)
Max. Permitted Voltage	:	1.8 kV (DC)
Test Voltage	:	6.5 kV (DC)

Certifications & Standards

Manufactured in accordance	:	BS EN 50618, EN 50618
Flame Retardancy	:	BS EN 60332-1-2
Low Smoke	:	BS EN 61034-2
Halogen Gas	:	BS EN 60754-1&2
Water Resistance	:	AD8 to EN 50525-2-21 "Annex E"
Insulation Resistance	:	BS EN 50618 Table 2, EN 50618 Table 2
Cold Resistance	:	BS EN 50618 Table 2, EN 50618 Table 2
Acid & Alkaline Resistance	:	BS EN 50618:2014 Annex B, EN 50618:2014 Annex B
TÜV Approved	:	Yes
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
CE CPR Classification	:	Dca s2, d2, a1 to EN 50575:2014+A1:2016



Part No.	Size mm ²	Weight kg/km	OD mm	Maximum Conductor Resistance Ω/km (DC)		Current Carrying Capacity @ 60°C & Max. Conductor Temperature of 120°C		
				@ 20°C	@ 90°C	Single Cable In Free Air	Single Cable on Surface	Two Cables Touching on Surface
050002D-BLK	4.0	56	5.9	5.09	6.49	55A	52A	44A
050003D-BLK	6.0	76	6.5	3.39	4.32	70A	67A	57A

Note: The expected period of use at maximum conductor temperature of 120°C and at maximum ambient temperature of 90°C is limited to 20000h



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