

# TECHNICAL DATASHEET



PHOTOVOLTAIC CABLE  
H1Z2Z2-K 1x6 mm<sup>2</sup>

Design No: HES.SC.004

## General Properties

Cable Code	:	H1Z2Z2-K
Applied Standard/Standards	:	EN 50618
(DC) Operating Voltage (U <sub>o</sub> /U)	(kV) :	1,5/1,5
(AC) Operating Voltage (U <sub>o</sub> /U)	(kV) :	1,0/1,0
Maximum (DC) Operating Voltage(U <sub>m</sub> )	(kV) :	1,8
Number of Cores and Nominal Cross Section	(mm <sup>2</sup> ) :	1x6

## Construction

### Conductor

Material	:	Tin Coated Electrolytic Copper
Type	:	Circular, Flexible
Class	:	Class 5 According to IEC 60228

### Insulation

Type	:	Cross-linked Halogen Free (XL-LSOH)
Colors <sup>[1]</sup>	:	Naturel
Thickness (Nom.)	(mm) :	0,7

### Core Lay-up

Assembly	:	Single Core
Filler	:	N/A

### Outer Sheath

Type	:	Cross-linked Halogen Free (XL-LSOH)
Color	:	Black
Thickness (Nom.)	(mm) :	0,8
Overall Diameter (Nom.)	(mm) :	6,2 ±1
UV Resistant	:	Yes

## Electrical Properties

DC Resistance of Conductor at 20°C (Max.)	(Ω/km) :	3,39
Maximum Continuous Conductor Temperature	(°C) :	120
DC Resistance at Maximum Operating Temperature	(Ω/km) :	4,722
Maximum Short-Circuit Conductor Temperature	(°C) :	250
Maximum Short-Circuit Current for 1 second (Phase to Phase) <sup>[2]</sup>	(kA) :	0,76

## Current Carrying Capacities<sup>[3]</sup>

Single Cable Free in Air	(A) :	70
Single Cable on a Surface	(A) :	67
Two loaded Cables Touching, on a Surface	(A) :	57

## Flammability Ratings

Flame Retardant	:	According to IEC 60332-1-2
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## Drum\*

Type	:	Plywood
Delivery Length	(m) :	1000

## Other Properties

Minimum Bending Radius	(mm) :	74
Lowest Installation Temperature	(°C) :	-25
Lowest Operating Temperature	(°C) :	-40
Net Weight	(kg/km) :	74,5 ± 3%
Gross Weight	(kg/drum) :	95 ± 3%
Cable Marking <sup>[1]</sup>	:	[METER] HES [CABLE TYPE] [NUMBER OF CORES] [CROSS SECTION] [OPERATING VOLTAGE] [APPLIED STANDART] [PRODUCTION DATE]

- Notes: [1] As per customer request.  
[2] Initial Temperature: 120°C, Final Temperature: 250°C  
[3] Ambient Temperature: 60°C  
\* For special drum dimensions, please contact HES Kablo

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SEAL / SIGN

