TÜV Rheinland Group

Certificate No. R50311889 0001 **Our Reference** 01-SYF- 15083539 024 **Appendix No.** 1.2

Constructional Data Form (CDF) for Electric Cables for Photovoltaic Systems

License Holder:	Wuxi Xinhongye Wire & Cable Co., Ltd. No. 17 Hexin Road, Xishan District Wuxi, Jiangsu 214101 P.R. China
Factory: (full address)	Wuxi Xinhongye Wire & Cable Co., Ltd. No. 17 Hexin Road, Xishan District Wuxi, Jiangsu 214101 P.R. China
Kind of Cable:	Electric Cables for Photovoltaic Systems
Type Designation:	H1Z2Z2-K 1X1,5…35mm^2

Mark of Origin:	**WUXI XINHONGYE WIRE & CABLE CO., LTD**
Material of Conductor 1:	Tinned Copper wire (the purity of copper 99,99 %). Class 5 of EN 60228 Yanggu Xiangguang Copper Co., Ltd.
Material of Conductor 2:	Tinned Copper wire (the purity of copper 99,99 %). Class 5 of EN 60228 Jiangsu Hongkai Non-ferrous Metal Co., Ltd.
Material of Conductor 3:	Tinned Copper wire (the purity of copper 99,99 %). Class 5 of EN 60228 Shandong Xinhui Copper Material Co., Ltd.
Material of Conductor 4:	Tinned Copper wire (the purity of copper 99,99 %). Class 5 of EN 60228 Jiangsu Xinhai High Performance Copper New Material Co., Ltd.
Material of Insulation 1:	Halogen free crosslinked polyolefin MG80027J-125, Colour: all color Mega Compound Co., Ltd.
Material of Insulation 2:	Halogen free crosslinked polyolefin ZL1214-JA-3, Colour: white Hebei Zhonglian Polymer Technology Development Co., Ltd
Material of Insulation 3:	Halogen free crosslinked polyolefin DS-J125 XPVW/B I-IV, Colour: white Jiangsu Dasheng Polymer Co., Ltd.

Date	Name	Signature
14.05.2021	Yunfei Sun	Yunfei Sun

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Material of Insulation 4:	Halogen free crosslinked polyolefin XHY-J3301, Colour: white or black Wuxi Xinhongye Wire & Cable Co., Ltd.
Material of Nylon Layer:	Nylon PA4001M Colour: nature colour CGN-DELTA (Suzhou) POLYMER CO., LTD.
Material of Sheath 1:	Halogen free crosslinked polyolefin MG80027H-125, Colour: black or red Mega Compound Co., Ltd.
Material of Sheath 2:	Halogen free crosslinked polyolefin ZL1214-H-5, Colour: black Hebei Zhonglian Polymer Technology Development Co., Ltd.
Material of Sheath 3:	Halogen free crosslinked polyolefin DS-HFVW-125 XLPE/B I-IV, Colour: black Jiangsu Dasheng Polymer Co., Ltd.
Material of Sheath 4:	Halogen free crosslinked polyolefin XHY-H3302, Colour: black or red Wuxi Xinhongye Wire & Cable Co., Ltd.
Other technical Information:	There is a nylon layer as separator applied under the sheath for H1Z2Z2-K 1,5...16mm^2.

Information for the Cable Dimensions:

Nominal Cross Sectional Area of the Conductor (mm²):	1,5	2,5		4,0		
Number of Wires in Conductor:	30	47	49	52	56	56
Diameter of Wires in Conductor(mm):	0,250± 0,008	0,250± 0,008	0,250± 0,008	0,300± 0,008	0,290± 0,008	0,285± 0,008
Mean Thickness of Insulation (mm):	0,7	0,7		0,7		
Mean Thickness of Nylon Layer (mm):	0,2	0,2		0,2		
Mean Thickness of Sheath (mm):	0,8	0,8		0,8		
Max. Mean Overall Diameter (mm):	5,4	5,9		6,6		

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Nominal Cross Sectional Area of the Conductor (mm²):	6		10	16	25	35
Number of Wires in Conductor:	84	78	84	128	196	276
Diameter of Wires in Conductor(mm):	0,290± 0,008	0,300± 0,008	0,400± 0,010	0,400± 0,010	0,400± 0,010	0,400± 0,010
Mean Thickness of Insulation (mm):	0,7		0,7	0,7	0,9	0,9
Mean Thickness of Nylon Layer (mm):	0,2		0,2	0,2	-	-
Mean Thickness of Sheath (mm):	0,8		0,8	0,9	1,0	1,1
Max. Mean Overall Diameter (mm):	7,4		8,8	10,1	12,5	14,0

Wuxi Xinhongye Wire & Cable Co., Ltd.
No. 17 Hexin Road, Xishan District Wuxi, Jiangsu 214101 P.R. China