

Certificate No. T50389425 01 Our Reference 01-JJX-15027350 034 Appendix No. 1.0

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

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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: Cables for Photovoltaic-Systems

Type Designation:	PV1-F 1X1,5...35mm ²
Material of Conductor:	Tinned Copper wire (the purity of copper 99,96 %). Class 5 of EN 60228 Jiangxi Copper Corporation
Material No. 1	
Material of Insulation:	Halogen free crosslinked polyolefin 3425-R15 Colour: black Changshu Zhonglian Photoelectricity New Stuff Co., Ltd.
Material of Sheath:	Halogen free crosslinked polyolefin 3425-LR2-P3 Colour: black, blue, red, black/blue, black/red or red/blue Changshu Zhonglian Photoelectricity New Stuff Co., Ltd.
Other Technical Information:	The cables can only be made of the insulation and sheath material manufactured by the same factory. Namely, cable is made of insulation and sheath material by Changshu Zhonglian Photoelectricity New Stuff Co., Ltd.

Information for cable dimensions:
Marking Label: 2 PFG 1169 PV1-F 1Xmm² WUXI XINHONGYE WIRE & CABLE CO., LTD.**

Nominal Cross Sectional Area of the Conductor (mm ²):	1,5	2,5	4	6	10	16	25	35
Number of Wires in Conductor:	30	49	56	84	84	128	196	276
Diameter of Wires in Conductor(mm):	0,246± 0,006	0,246± 0,006	0,300± 0,006	0,300± 0,006	0,400± 0,006	0,400± 0,006	0,400± 0,006	0,400± 0,006
Min. Wall Thickness of Insulation (mm):	0,66	0,66	0,66	0,66	1,00	1,10	1,30	1,30
Min. Wall Thickness of Sheath (mm):	0,70	0,70	0,70	0,70	1,10	1,10	1,10	1,10

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Type Designation:	PV1-F 1X4mm ²
Material of Conductor:	Tinned Copper wire (the purity of copper 99,99 %). Class 5 of EN 60228 Jiangsu Xinhai Copper Industrial Co., Ltd.
Material No. 2	
Material of Insulation:	Halogen free crosslinked polyolefin ZL1214-J-2 Colour: white Halogen free crosslinked polyolefin ZL1214-JA-1 Colour: black Hebei Zhonglian Polymer Technology Development Co., Ltd.
Material of Sheath:	Halogen free crosslinked polyolefin ZL1214-H-3 Colour: black Hebei Zhonglian Polymer Technology Development Co., Ltd.
Other Technical Information:	The cables can only be made of the insulation and sheath material manufactured by the same factory. Namely, cable is made of insulation and sheath material by Hebei Zhonglian Polymer Technology Development Co., Ltd.

Information for cable dimensions:
Marking Label: 2 Pfg 1169 PV1-F 1X4mm² WUXI XINHONGYE WIRE & CABLE CO., LTD

Nominal Cross Sectional Area of the Conductor (mm²):	4	
Number of Wires in Conductor:	52	56
Diameter of Wires in Conductor(mm):	0,296±0,006	0,290±0,006
For insulation in black:		
Min. Wall Thickness of Insulation (mm):	0,50	
Min. Wall Thickness of Sheath (mm):	0,50	
For insulation in white:		
Min. Wall Thickness of Insulation (mm):	0,53	
Min. Wall Thickness of Sheath (mm):	0,54	

Type Designation:	PV1-F 1X4mm ²
Material of Conductor:	Tinned Copper wire (the purity of copper 99,96 %). Class 5 of EN 60228 Shandong Xinhui Copper Material Co., Ltd.
Material No. 2	
Material of Insulation:	Halogen free crosslinked polyolefin ZL1214-J-2 Colour: white Halogen free crosslinked polyolefin ZL1214-JA-1 Colour: black Hebei Zhonglian Polymer Technology Development Co., Ltd.
Material of Sheath:	Halogen free crosslinked polyolefin ZL1214-H-3 Colour: black Hebei Zhonglian Polymer Technology Development Co., Ltd.
Other Technical Information:	The cables can only be made of the insulation and sheath material manufactured by the same factory. Namely, cable is made of insulation and sheath material by Hebei Zhonglian Polymer Technology Development Co., Ltd.

Information for cable dimensions:**Marking Label: 2 Pfg 1169 PV1-F 1X4mm² WUXI XINHONGYE WIRE & CABLE CO., LTD**

Nominal Cross Sectional Area of the Conductor (mm²):	4		
Number of Wires in Conductor:	52	56	
Diameter of Wires in Conductor(mm):	0,296±0,006	0,282±0,005	0,290±0,006
For insulation in black:			
Min. Wall Thickness of Insulation (mm):	0,50		
Min. Wall Thickness of Sheath (mm):	0,50		
For insulation in white:			
Min. Wall Thickness of Insulation (mm):	0,53		
Min. Wall Thickness of Sheath (mm):	0,54		

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Type Designation:	PV1-F 1X1,5...10mm ²
Material of Conductor:	Tinned Copper wire (the purity of copper 99,99 %). Class 5 of EN 60228 Kunshan Huayi Copper Industrial Co., Ltd.
Material No. 3	
Material of Insulation:	Halogen free crosslinked polyolefin DS-J125XPVW/B Colour: black or white Jiangsu Dasheng Polymer Co., Ltd.
Material of Sheath:	Halogen free crosslinked polyolefin DS-HFVW-125XLPE/B or DS-H90A Colour: black Jiangsu Dasheng Polymer Co., Ltd.
Other Technical Information:	The cables can only be made of the insulation and sheath material manufactured by the same factory. Namely, cable is made of insulation and sheath material by Jiangsu Dasheng Polymer Co., Ltd. The insulation may adhere to the sheath.

Information for cable dimensions:
Marking Label: 2 Pfg 1169 PV1-F 1Xmm² WUXI XINHONGYE WIRE & CABLE CO., LTD**

Nominal Cross Sectional Area of the Conductor (mm ²):	1,5	2,5	4	6	10
Number of Wires in Conductor:	30	49	56	84	84
Diameter of Wires in Conductor(mm):	0,246± 0,006	0,246± 0,006	0,300± 0,006	0,300± 0,006	0,400± 0,006
For cable, which insulation does not adhere to its sheath:					
Min. Wall Thickness of Insulation (mm):	0,69	0,69	0,69	0,81	0,81
Min. Wall Thickness of Sheath (mm):	0,82	0,82	0,82	1,13	1,13
For cable, which insulation adhere to its sheath:					
Min. Wall Thickness of Insulation (mm):	0,56	0,56	0,56	0,64	0,64
Min. Wall Thickness of Sheath (mm):	0,94	0,94	0,94	1,07	1,07

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Type Designation:	PV1-F 1X1,5...10mm ²
Material of Conductor:	Tinned Copper wire (the purity of copper 99,99 %). Class 5 of EN 60228 Kunshan Huayi Copper Industrial Co., Ltd.
Material No. 3	
Material of Insulation:	Halogen free crosslinked polyolefin DS-J125XPVW/B Colour: black or white Jiangsu Dasheng Polymer Co., Ltd.
Material of Sheath:	Halogen free crosslinked polyolefin DS-HFVW-125XLPE/B Colour: black Jiangsu Dasheng Polymer Co., Ltd.
Other Technical Information:	The cables can only be made of the insulation and sheath material manufactured by the same factory. Namely, cable is made of insulation and sheath material by Jiangsu Dasheng Polymer Co., Ltd. The insulation may adhere to the sheath.

Information for cable dimensions:
Marking Label: 2 PFG 1169 PV1-F 1Xmm² WUXI XINHONGYE WIRE & CABLE CO., LTD**

Nominal Cross Sectional Area of the Conductor (mm ²):	1,5	2,5	4	6	10
Number of Wires in Conductor:	30	47	52	78	84
Diameter of Wires in Conductor(mm):	0,246± 0,006	0,246± 0,006	0,295± 0,006	0,295± 0,006	0,400± 0,006
Min. Wall Thickness of Insulation (mm):	0,50	0,50	0,50	0,52	0,52
Min. Wall Thickness of Sheath (mm):	0,50	0,50	0,55	0,55	0,58

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Type Designation:	PV1-F 2X1,5...16mm ²
Material of Conductor:	Tinned Copper wire (the purity of copper 99,95 %). Class 5 of EN 60228 Shandong Xinhui Copper Material Co., Ltd.
Material of Insulation:	Halogen free crosslinked polyolefin DS-J125XPVW/B Colour: black or red Jiangsu Dasheng Polymer Co., Ltd.
Material of Sheath:	Halogen free crosslinked polyolefin DS-HFVW-125XLPE/B Colour: black Jiangsu Dasheng Polymer Co., Ltd.
Other Technical Information:	The cables can only be made of the insulation and sheath material manufactured by the same factory. Namely, cable is made of insulation and sheath material by Jiangsu Dasheng Polymer Co., Ltd.

Information for cable dimensions:

Nominal Cross Sectional Area of the Conductor (mm ²):	2X1,5	2X2,5	2X4	2X6	2X10	2X16
Number of Wires in Conductor:	30	47	52	77	84	128
Diameter of Wires in Conductor(mm):	0,250±0,006	0,250±0,006	0,300±0,006	0,300±0,006	0,400±0,006	0,400±0,006
Min. Wall Thickness of Insulation (mm):	0,52	0,55	0,55	0,60	1,10	1,10
Min. Wall Thickness of Sheath (mm):	0,57	0,50	0,50	0,56	1,10	1,10

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Type Designation:	PV1-F 1X4mm ²
Material of Conductor:	Tinned Copper wire (the purity of copper 99,99 %). Class 5 of EN 60228 Yanggu Xiangguang Copper Co., Ltd.
Material No. 4	
Material of Insulation:	Halogen free crosslinked polyolefin MG80027J-125 Colour: black or white Suzhou Meiguan Plastic Co., Ltd.
Material of Sheath:	Halogen free crosslinked polyolefin MG80027H-125 Colour: black Suzhou Meiguan Plastic Co., Ltd.
Other Technical Information:	The cables can only be made of the insulation and sheath material manufactured by the same factory. Namely, cable is made of insulation and sheath material by Suzhou Meiguan Plastic Co., Ltd. The insulation may adhere to the sheath.

Information for cable dimensions:
Marking Label: 2 PFG 1169 PV1-F 1X4mm² WUXI XINHONGYE WIRE & CABLE Co., LTD

Nominal Cross Sectional Area of the Conductor (mm ²):	4
Number of Wires in Conductor:	56
Diameter of Wires in Conductor(mm):	0,296±0,006
For insulation in black:	
Min. Wall Thickness of Insulation (mm):	0,50
Min. Wall Thickness of Sheath (mm):	0,50
For insulation in white:	
Min. Wall Thickness of Insulation (mm):	0,50
Min. Wall Thickness of Sheath (mm):	0,60