

Current-Carrying Capacity of wires and cables

Current-Carrying Capacity compliant to JEAC 8001.

Current-Carrying Capacity may vary with ambient temperature and conditions of the installation.

The list below represents single aerial wire values.

Reduce the relevant load for multi-wiring or conduit wiring or in case of a high ambient temperature in accordance with the JEAC 8001 and JCS #168-C internal wiring regulations.

Size	VSF VFF VCTF VCTFK	VCT	S-HVSF S-HVFF HVCTF HVCTFK		EM-CFF EM-CCTFK
0.3 mm ²	3A	—	3A	4A	—
0.5 mm ²	5A	—	6A	8A	—
0.75mm ²	7A	15A	8A	11A	10A
1.25mm ²	12A	20A	14A	19A	17A
2.0 mm ²	17A	26A	20A	27A	24A

Size	H CV H EM-CE PV-CC	Size	PV1-F PV-CC	Size	USE-2 PV-Wire
2.0 mm ²	31A	2.5mm ²	33A	14AWG	25A
3.5 mm ²	44A	4.0mm ²	44A	12AWG	30A
5.5 mm ²	58A	6.0mm ²	57A	10AWG	40A

Size	KIV	HKIV		EM-KIC	EM-HB-KIX(UV)		EM-HB-KIX	
0.5mm ²	11A	13A	17A	15A	15A	17A	15A	19A
0.75mm ²	14A	17A	22A	20A	20A	22A	20A	25A
1.25mm ²	19A	23A	30A	26A	26A	30A	26A	34A
2.0mm ²	27A	33A	43A	38A	38A	43A	38A	48A
3.5mm ²	37A	45A	59A	52A	52A	59A	52A	66A
5.5mm ²	49A	60A	77A	69A	69A	77A	69A	87A
8.0mm ²	61A	75A	96A	86A				
14mm ²	88A	107A	139A	124A				

Size	HIV	
0.8mm	13A	17A
1.0mm	19A	25A
0.9mm ²	21A	27A
1.2mm	23A	30A
1.6mm	33A	43A

Size	AWM 3938	AWM 3266	AWM 3271	AWM 3398
30AWG	4A	4A	5A	4A
28AWG	4A	4A	5A	5A
26AWG	6A	5A	7A	6A
24AWG	7A	7A	9A	8A
22AWG	10A	10A	12A	11A
20AWG	16A	17A	19A	18A
18AWG	18A	19A	21A	20A
16AWG	25A	26A	29A	28A
14AWG	—	—	—	35A

Size	ULCE-KIV
20AWG	15A
18AWG	19A
16AWG	24A
14AWG	34A
12AWG	45A
10AWG	59A

Size	KV	S-HKV	EMKER	HB-KX	HB-KEX
0.2mm ²	2A	3A	6A	7A	—
0.3mm ²	3A	5A	9A	10A	11A
0.5mm ²	5A	8A	12A	14A	16A
0.75mm ²	7A	11A	17A	19A	20A
1.25mm ²	12A	19A	24A	27A	30A
2.0mm ²	—	—	—	37A	39A

Size	SNKV	HKV
30AWG	—	2A
28AWG	2A	3A
26AWG	3A	4A
24AWG	—	5A

Size	AWM 1571	AWM 1061	AWM 1007	AWM 3302	AWM 10368	AWM 3385
28AWG	3A	3A	3A	3A	3A	4A
26AWG	4A	4A	4A	5A	5A	5A
24AWG	5A	5A	6A	6A	6A	7A
22AWG	7A	7A	8A	9A	9A	10A
20AWG	10A	10A	11A	12A	12A	13A
18AWG	13A	13A	15A	16A	16A	17A
16AWG	18A	18A	19A	21A	21A	23A