



H07V2-K

Low voltage 450/750 V flexible Cu conductor insulated with PVC

APPLICATION

Flexible insulated conductor used for laying in electric-installation tubes, under and on plaster installation in dry rooms and in closed installation conduits. Direct laying in cable guides is not permitted. Also applied for internal wiring of distribution and switching boxes equipment, same as for protective laying for lighting of nominal voltage up to 1000 V alternating current, or up to 750 V direct current against earth.

TECHNICAL CHARACTERISTICS

Test voltage: 2,5 kV
 Rated voltage: 450/750 V
 Bending radius: 6D
 Max. conductor temperature: 90°C
 Max. short-circuit temperature: 160°C

CONSTRUCTION

Conductors: Cu, class 5 according to EN 60228
 Insulation: PVC compound, type TI 3 according to EN 50353-3

STANDARD

EN 50525-2-31, IEC 60227

CORE IDENTIFICATION

According to EN 50525-1

Insulation colors:

- Black ● Blue ● Brown ● Grey ● Orange ● Pink
- Red ● Turquoise ● Violet ○ White ● Green/Yellow

CERTIFICATION



NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	INSULATION THICKNESS	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²	Ω/km	mm	mm	kg/km	kg/km
1x1,5	13,3	0,7	3,0	14,4	22
1x2,5	7,98	0,8	3,7	24,0	35
1x4	4,95	0,8	4,3	38,4	52
1x6	3,30	0,8	5,0	57,6	74
1x10	1,910	1,0	6,5	96,0	122
1x16	1,210	1,0	7,8	15,6	186
1x25	0,780	1,2	9,8	240,0	290
1x35	0,554	1,2	10,9	336,0	392
1x50	0,386	1,4	12,8	480,0	557
1x70	0,272	1,4	14,5	672,0	760
1x95	0,206	1,6	16,7	912,0	1028
1x120	0,161	1,6	19,0	1152,0	1286
1x150	0,129	1,8	20,7	1440,0	1603
1x185	0,106	2,0	23,0	1776,0	1978
1x240	0,0801	2,2	26,1	2304,0	2557

Current capacity acc. to DIN VDE 0298-4

INSTALLATION	IN INSTALLATION TUBE, IN THERMO-INSULATED WALL		IN INSTALLATION TUBE, IN WALL		IN OPEN AIR
	NO. OF LOADED CORES	2	3	2	3
mm ²	A	A	A	A	A
1,5	19	17	23	20	24
2,5	26	23	31	28	32
4	35	31	42	37	42
6	45	40	54	48	54
10	61	54	75	66	73
16	81	73	100	88	98
25	106	95	133	117	129
35	131	117	164	144	158
50	158	141	198	175	198
70	200	179	253	222	245
95	241	216	306	269	292
120	278	249	354	312	344
150	318	285	393	342	391
185	362	324	449	384	448
240	424	380	528	450	528
300	486	435	603	514	608

Max. operating temperature of conductor: 90°C; ambient temperature: 30°C