

H07V2-U

H07V2-R

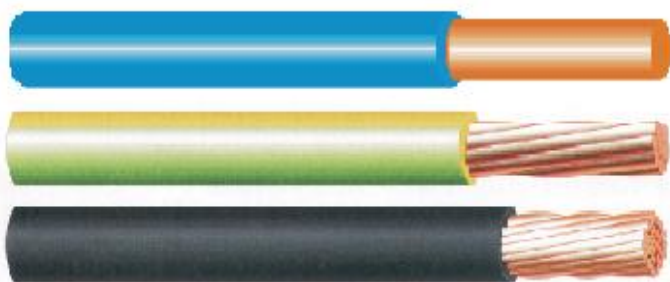
H07V2-K

450/750V



PN-EN 50525-2-31, BS EN 50525-2-31

PVC insulated non sheathed single core heat resisting cable for internal wiring



CONSTRUCTION

Conductors:	annealed copper conductor acc. to EN 60228: class 1 solid -H07V2-U, class 2 stranded H07V2-R, class 5 flexible H07V2-K
Insulation:	PVC compound type T13 acc. to EN 50363-3
Colour of insulation	green/yellow, blue, black, brown, grey, orange, pink, red, turquoise, violet, white

CHARACTERISTIC

Maximum conductor operating temperature:	+90°C			
Lowest ambient temperature for fixed installation:	-30°C			
Lowest installation temperature:	-5°C			
Maximum short-circuit conductor temperature:	+160°C			
Test voltage:	2500V			
Minimum bending radius:	For cable diameter D (mm)			
	D ≤ 8	8 < D ≤ 12	12 < D ≤ 20	D > 20
Normal use	4 D	5 D	6 D	6 D
Careful bending at termination	2 D	3 D	4 D	4 D

FIRE PERFORMANCE

▪ Flame retardant:	EN 60332-1-2
▪ CPR – class reaction to fire (acc EN 50575):	Eca

APPLICATIONS

for internal wiring and fixed protected installation inside appliances and in lighting fittings. Suitable for fixed protected installation in, or on, lighting or control gear for voltages up to 1000V a.c. or, up to 750V d.c. to earth.

Standard length cable packing	50 m of 100 m in rings or on spools, or 500 m on drums. Other forms of packing and delivery are available on request
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Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Minimum insulation resistance at temperature 90°C
n x mm ²	mm	kg/km	Ω/km	MΩ.km
H07V2-U				
1,5	2,7	19	12,1	0,011
2,5	3,3	30	7,41	0,010
4	3,7	44	4,61	0,0087
6	4,2	63	3,08	0,0074
10	5,4	105	1,83	0,0072
H07V2-R				
1,5	3,0	20	12,1	0,010
2,5	3,6	32	7,41	0,0099
4	4,1	47	4,61	0,0082
6	4,5	64	3,08	0,0070
10	5,8	108	1,83	0,0067
16	6,8	164	1,15	0,0056
25	8,5	257	0,727	0,0053
35	9,6	348	0,524	0,0046
50*	11,3	473	0,387	0,0046
70*	12,6	665	0,268	0,0040
95*	15,0	921	0,193	0,0039
120*	16,4	1146	0,153	0,0035
150*	18,4	1418	0,124	0,0035
185*	20,3	1771	0,0991	0,0035
240*	23,2	2303	0,0754	0,0034
H07V2-K				
1,5	2,9	19	13,3	0,010
2,5	3,6	30	7,98	0,0095
4	4,1	43	4,95	0,0078
6	4,6	61	3,30	0,0068
10	6,0	104	1,91	0,0065
16	7,1	158	1,21	0,0053
25	8,7	243	0,780	0,0050
35	9,8	338	0,554	0,0043
50*	11,8	476	0,386	0,0042
70*	13,6	661	0,272	0,0036
95*	16,1	875	0,206	0,0036
120*	17,2	1099	0,161	0,0032

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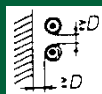
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Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Minimum insulation resistance at temperature 90°C
$n \times \text{mm}^2$	mm	kg/km	Ω/km	M Ω .km
150*	19,4	1374	0,129	0,0032
185*	22,1	1678	0,106	0,0032
240*	24,0	2187	0,0801	0,0031
300*	28,0	2735	0,0641	0,0031

*07V2-R, 07V2-K - based on norm

Current ratings acc. to IEC 60364-5-523

Permissible operating temperature at conductor: 90°C; ambient temperature: 30°C

Installation					
	Single core cables in insulating tubes, in a thermally insulated walls	Single core cables in insulating tubes on a wall	In open air *		
Number of loaded cores	2	3	2	3	1
Cross-section, mm ²	Current ratings in Ampere (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	-	-	391
185	362	324	-	-	448
240	424	380	-	-	528

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* Current rating acc. to VDE 0298-4, ambient temperature: 50°C

Convention factors for deviating ambient temperature above 30°C

Ambient temperature, °C	10	15	20	25	30	35	40	45	50	55	60
Conversion factors	1,22	1,17	1,12	1,06	1,00	0,94	0,87	0,79	0,71	0,61	0,50

Convention factors for deviating ambient temperature above 50°C

Ambient temperature, °C	50	55	60	65	70	75	80	85
Conversion factors	1,00	0,94	0,87	0,79	0,71	0,61	0,50	0,35



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