





Cable Type : SINGLE CORE PVC INSULATED CABLES HEAT RESISTANT (90 °C)



CERTIFICATE/APPROVAL



CABLE DESCRIPTION

CONSTRUCTION	
STANDARD	: EN 50525-2-31
(1) CONDUCTOR	: CLASS 1 & 2 EN 60228 Class 1 - Solid copper conductor Class 2 - Stranded copper conductor
(2) INSULATION	: PVC (Polyvinyl Chloride) Type Tl 3
CHARACTERISTICS	
OPERATING TEMPERATURE	: -5 °C / +90 °C
MAX. SHORT CIRCUIT TEMPERATURE	: 160 °C (max. 5 sec.)
NOMINAL VOLTAGE (U ₀ /U)	: H05 300/500 V H07 450/750 V
TEST VOLTAGE	: H05 2000 V H07 2500 V
MINIMUM BENDING RADIUS	: 3 x Ø up to 10 mm ² 4 x Ø 10 up to 25 mm ² 5 x Ø above 25 mm ²
FLAME RETARDANT IEC 60332-1-2	
   	
APPLICATIONS	
Used for internal wiring of appliances as well as installation in an electrical conduit either on or under plaster where heat resistance is required.	



CABLE DIAMETERS

NUMBER AND NOMINAL CROSS-SECTIONAL AREA OF CONDUCTORS mm ²	CLASS OF CONDUCTOR	COPPER DIMENSION mm	THICKNESS OF INSULATION SPECIFIED VALUE mm	MEAN OVERALL DIMENSIONS		MAX. RESISTANCE at 20°C Ω/km	MINIMUM INSULATION RESISTANCE AT RATED TEMPERATURE mΩ.km
				LOWER LIMIT ϕ mm	UPPER LIMIT ϕ mm		
H05V2-U							
0,50	1	0,80	0,60	1,90	2,30	36,00	0,014
0,75	1	0,98	0,60	2,10	2,50	24,50	0,013
1	1	1,13	0,60	2,20	2,70	18,10	0,011
H07V2-U							
1,5	1	1,365	0,70	2,60	3,20	12,10	0,011
2,5	1	1,74	0,80	3,20	3,90	7,41	0,010
4	1	2,19	0,80	3,60	4,40	4,61	0,0087
6	1	2,69	0,80	4,10	5,00	3,08	0,0074
10	1	3,50	1,00	5,30	6,40	1,83	0,0072
H05V2-R							
0,50	2	7 / 0,30	0,60	2,00	2,40	36,00	0,014
0,75	2	7 / 0,37	0,60	2,20	2,60	24,50	0,012
1	2	7 / 0,43	0,60	2,30	2,80	18,10	0,011
H07V2-R							
1,5	2	7 / 0,53	0,70	2,70	3,30	12,10	0,010
2,5	2	7 / 0,67	0,80	3,30	4,00	7,41	0,0099
4	2	7 / 0,85	0,80	3,80	4,60	4,61	0,0082
6	2	7 / 1,03	0,80	4,30	5,20	3,08	0,0070
10	2	7 / 1,34	1,00	5,60	6,70	1,83	0,0067
16	2	7 / 1,69	1,00	6,40	7,80	1,15	0,0056
25	2	7 / 2,19	1,20	8,10	9,70	0,727	0,0053
35	2	7 / 2,60	1,20	9,00	10,90	0,524	0,0046
50	2	10 / 2,60	1,40	10,60	12,80	0,387	0,0046
70	2	14 / 2,60	1,40	12,10	14,60	0,268	0,0040
95	2	19 / 2,60	1,60	14,10	17,10	0,193	0,0039
120	2	19 / 2,98	1,60	15,60	18,80	0,153	0,0035
150	2	24 / 2,98	1,80	17,30	20,90	0,124	0,0035
185	2	30 / 2,98	2,00	19,30	23,30	0,0991	0,0035
240	2	37 / 2,98	2,20	22,00	26,60	0,0754	0,0034

Due to variables in production, the information on this data sheet is approximate and subject to change without any notice.

