

Cable Type : SINGLE CORE NON-SHEATHED CABLES WITH THERMOPLASTIC PVC INSULATION



CERTIFICATE/APPROVAL



CABLE DESCRIPTION

CONSTRUCTION

STANDARD	:	EN 50525-2-31
(1) CONDUCTOR	:	Class 5 flexible copper conductor according to EN 60228
(2) INSULATION	:	PVC (Polyvinyl Chloride) Type T1 1

CHARACTERISTICS

OPERATING TEMPERATURE	:	-5 °C / +70 °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	:	< 12: 5 x overall diameter > 12: 6 x overall diameter

FLAME RETARDANT

IEC 60332-1-2



APPLICATIONS

PVC panel wiring for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers.



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CABLE DIAMETERS

NUMBER AND NOMINAL CROSS-SECTIONAL AREA OF CONDUCTORS	COPPER DIMENSION	THICKNESS OF INSULATION SPECIFIED VALUE	MEAN OVERALL DIMENSIONS		MAX. RESISTANCE at 20°C	MINIMUM INSULATION RESISTANCE AT RATED TEMPERATURE
			LOWER LIMIT ϕ	UPPER LIMIT ϕ		
mm ²	mm	mm	mm	mm	Ω /km	m Ω .km
H05V-K						
0,50	15 / 0,20	0,60	2,10	2,50	39,00	0,014
0,75	22 / 0,20	0,60	2,20	2,70	26,00	0,012
1	29 / 0,20	0,60	2,40	2,80	19,50	0,011
H07V-K						
1,5	27 / 0,25	0,70	2,80	3,40	13,30	0,010
2,5	45 / 0,25	0,80	3,40	4,10	7,98	0,0095
4	50 / 0,30	0,80	3,90	4,80	4,95	0,0078
6	75 / 0,30	0,80	4,40	5,30	3,30	0,0068
10	74 / 0,40	1,00	5,70	6,80	1,91	0,0065
16	116 / 0,40	1,00	6,70	8,10	1,21	0,0053
25	180 / 0,40	1,20	8,40	10,20	0,780	0,0050
35	250 / 0,40	1,20	9,70	11,70	0,554	0,0043
50	360 / 0,40	1,40	11,50	13,90	0,386	0,0042
70	518 / 0,40	1,40	13,20	16,00	0,272	0,0036
95	670 / 0,40	1,60	15,10	18,20	0,206	0,0036
120	864 / 0,40	1,60	16,70	20,20	0,161	0,0032
150	1060 / 0,40	1,80	18,60	22,50	0,129	0,0032
185	1290 / 0,40	2,00	20,60	24,90	0,106	0,0032
240	1728 / 0,40	2,20	23,50	28,40	0,0801	0,0031

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

