

Cable Type : SINGLE CORE NON-SHEATHED CABLES WITH HALOGEN-FREE CROSSLINKED INSULATION, AND LOW EMISSION OF SMOKE (90 °C)



CERTIFICATE/APPROVAL



CABLE DESCRIPTION

CONSTRUCTION

STANDARD	:	EN 50525-3-41
(1) CONDUCTOR	:	Class 5 flexible copper conductor according to EN 60228
(2) INSULATION	:	LSZH (Low Smoke Zero Halogen) Type EI 5

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	:	< 12: 5 x overall diameter > 12: 6 x overall diameter

FLAME RETARDANT

IEC 60332-1-2



APPLICATIONS

LSZH panel wiring for appliances with maximum operating temperatures of 90°C, and generally in areas (such as public and government buildings) where smoke and toxic fumes may cause a threat to life and equipment. The cables produce no corrosive gases when burnt which is particularly important where electronic equipment is installed.



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
H05Z-K						
0,50	15 / 0,20	0,60	2,10	2,60	39,00	0,013
0,75	22 / 0,20	0,60	2,20	2,80	26,00	0,011
1	29 / 0,20	0,60	2,40	2,90	19,50	0,010
H07Z-K						
1,5	27 / 0,25	0,70	2,80	3,50	13,30	0,010
2,5	45 / 0,25	0,80	3,40	4,30	7,98	0,009
4	50 / 0,30	0,80	3,90	4,90	4,95	0,007
6	75 / 0,30	0,80	4,40	5,50	3,30	0,006
10	74 / 0,40	1,00	5,70	7,10	1,91	0,0056
16	116 / 0,40	1,00	6,70	8,40	1,21	0,0046
25	180 / 0,40	1,20	8,40	10,60	0,780	0,0044
35	250 / 0,40	1,20	9,70	12,10	0,554	0,0038
50	360 / 0,40	1,40	11,50	14,40	0,386	0,0037
70	518 / 0,40	1,40	13,20	16,60	0,272	0,0032
95	670 / 0,40	1,60	15,10	18,80	0,206	0,0032
120	864 / 0,40	1,60	16,70	20,90	0,161	0,0029
150	1060 / 0,40	1,80	18,60	23,30	0,129	0,0029
185	1290 / 0,40	2,00	20,60	25,80	0,106	0,0029
240	1728 / 0,40	2,20	23,50	29,40	0,0801	0,0028

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

