

**Cable Type :** SINGLE CORE NON-SHEATHED CABLES WITH HALOGEN-FREE CROSSLINKED INSULATION, AND LOW EMISSION OF SMOKE



CERTIFICATE/APPROVAL



## **CABLE DESCRIPTION**

### **CONSTRUCTION**

STANDARD	:	EN 50525-3-31
( 1 ) CONDUCTOR	:	Class 5 flexible copper conductor according to EN 60228
( 2 ) INSULATION	:	LSZH (Low Smoke Zero Halogen) Type TI 7

### **CHARACTERISTICS**

OPERATING TEMPERATURE	:	-5 °C / +70 °C
MAX. SHORT CIRCUIT TEMPERATURE	:	160 °C (max. 5 sec.)
NOMINAL VOLTAGE (U <sub>0</sub> /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**

Used in energy networks in hotels, schools, high constructions, hospitals, power plants, data processing centers, business centers where there is a risk of fire.



**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 $\phi$	UPPER LIMIT $\phi$		
mm <sup>2</sup>	mm	mm	mm	mm	$\Omega$ /km	m $\Omega$ .km
<b>H05Z1-K</b>						
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
<b>H07Z1-K</b>						
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.*

