

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 1 & 2 EN 60228 Class 1 - Solid copper conductor Class 2 - Stranded copper conductor
(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 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 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 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		
H05Z1-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
H07Z1-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
H05Z1-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
H07Z1-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.

