

# H07Z1-K



## APPLICATION

H07Z1-K is a single-core, flexible, low smoke zero halogen (LSZH) electrical wire designed for fixed and protected installations. This building wire is typically installed in conduits, trunking, and fixed wiring systems inside residential, commercial, and public buildings where higher safety standards are required, such as hospitals, schools, airports, and data centers.

## TECHNICAL CHARACTERISTICS

CPR class: B2ca-s1,d1,a1

Test voltage: 2,5 kV

Rated voltage: 450/750 V

Bending radius (min): 4 x Overall Diameter (OD ≤ 8mm);  
5 x Overall Diameter (8mm < OD ≤ 12mm) ; 6 x Overall

Diameter (OD > 12mm)

Min. laying temperature: 5°C

Temperature Range: -40°C to 70°C

## CONSTRUCTION

Conductors: Cu, class 5 according to EN 60228

Insulation: Halogen-free

thermoplastic com-pound, type TI 7 according to EN 50353-7

## STANDARD

EN 50525-3-31

## CORE IDENTIFICATION

According to EN 50525-1

Insulation colors:

Black Blue Brown Grey Orange Pink  
Red Turquoise Violet White Green/Yellow

## CERTIFICATION



NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN THERMO ISOLATED WALL AT 30°)		CURRENT CAPACITY IN ELECTRO INSTALLATION PIPE AT 30°)		CURRENT CAPACITY ON THE WALL AT 30°)		INSULATION THICKNESS	OUTER DIAM. (APPROX.)		METAL WEIGHT	CABLE WEIGHT (APPROX.)
		2 cores	3 cores	2 cores	3 cores	2 cores	3 cores		mm	mm		
1x1,5	13,3	19	17	23	20	24	22	0,7	2,8	3,5	14,4	22
1x2,5	7,98	26	23	31	28	33	30	0,8	3,4	4,3	24,0	34
1x4	4,95	35	31	42	37	45	40	0,8	3,9	4,9	38,4	51
1x6	3,30	45	40	54	48	58	52	0,8	4,4	5,5	57,6	72
1x10	1,910	61	54	75	66	80	71	1,0	5,7	7,1	96,0	119
1x16	1,210	81	73	100	88	107	96	1,0	6,7	8,4	153,6	181
1x25	0,780	106	95	133	117	138	119	1,2	8,4	10,6	240,0	280
1x35	0,554	131	117	164	144	171	147	1,2	9,7	12,1	336,0	383
1x50	0,386	158	141	198	175	209	179	1,4	11,5	14,4	480,0	545
1x70	0,272	200	179	235	222	269	229	1,4	13,2	16,6	672,0	747
1x95	0,206	241	216	306	269	328	278	1,6	15,1	18,8	912,0	1012
1x120	0,161	278	249	354	312	382	322	1,6	16,7	20,9	1152,0	1263
1x150	0,129	318	285	393	342	441	371	1,8	18,6	23,3	1440,0	1579
1x185	0,106	362	324	449	384	506	424	2,0	20,6	25,8	1776,0	1948
1x240	0,0801	424	380	528	450	599	500	2,2	23,5	29,4	2304,0	2519

(current capacity according to DIN VDE 0298-4)