

DESIGN

Conductor

Electrolytic annealed tinned copper conductor, flexible class 5 according to IEC 60228 & EN 60228.

Insulation

UV resistant (LSHF) polyolefin insulation type TI7 according to EN 50363-7.

The standard identification of insulated conductors are Green/Yellow acc. To RAL 6018/1021.



APPLICATIONS

Outdoor H07Z1-K is a LSHF safety cable specially engineered for earthing connections in outdoor installations. The tinned copper and the special UV resistant compound make the cable resistant against corrosion and UV rays degradation.

CHARACTERISTICS

Electrical Performance	450/750 V
CPR	B2ca-s1a,d1,a1, according to EN 50575
Thermal Performance	Min. service temperature: -40°C (fixed & protected installations) Max. service temperature: 70°C Maximum short-circuit temperature: 160°C (max. 5s.)
Fire Performance	Flame non-propagation: EN 60332-1 and IEC 60332-1 Fire non-propagation: EN 60332-3-24/IEC 60332-3-24 & EN 50399
LSZH (Low Smoke Zero Halogen)	According to EN 60754-1 / IEC 60754-1 HCl content < 0.5% pH > 4,3, conductivity < 10 µS/mm
Low Smoke Emission	According to EN 61034 / IEC 61034
Light Transmittance	> 80%
Low Corrosive Gases Emission	According to EN 60754-2 / IEC 60754-2
Minimum Bending Radius	5 x cable diameter
Environmental Performance	Chemical & Oil Resistance: Excellent Grease & Mineral Oils Resistance: Excellent UV Resistant: Acc. to EN 50618 Ozone Resistance: Acc. to EN 50618 Water Resistance: AD3 Sprays.
Standards	Acc. to EN 50525-3-31/ UNE 211002
Approvals	HAR, AENOR, BUREAU VERITAS, RoHS, CE

© SHORT-CIRCUIT CURRENT-CARRYING CAPACITIES

Time (s)	0.1	0.2	0.3	0.5	1	1.5	2	2.5	3
A/mm ²	364	257	210	163	115	94	81	73	66

© CORRECTION FACTORS

Air T. (°C)	20	25	30	35	40	45	50	55	60
Factor	1.12	1.06	1	0.94	0.87	0.79	0.71	0.61	0.50

© DIMENSIONS

Section	Diameter	Weight	In conduit 2 cond.	In conduit 3 cond.	Voltage Drop
(mm ²)	(mm)	(Kg/KM)	(A) ¹	(A) ¹	(V/A, KM) ²
1x4.0	4.1	45	32	28	12.2
1x6.0	4.7	65	41	36	8.11
1x10	6.0	105	57	50	4.66
1x16	7.0	160	76	68	2.97
1x25	8.8	250	101	89	1.90
1x35	9.9	335	125	110	1.35
1x50	11.7	480	151	134	0.94
1x70	13.2	660	192	171	0.662
1x95	15.6	870	232	207	0.502
1x120	17.0	1100	269	239	0.392
1x150	18.9	1380	300	262	0.315
1x185	21.5	1680	341	296	0.258
1x240	24.5	2205	400	346	0.195

¹ Reference method B1 for two and three loaded conductors installed in conduit on a wall according to IEC 60364-5-52 in open air at 30°C ambient temperature.

²At 70°C conductor temperature, cos φ=1 and single-phase circuit.

** The product and information presented in this document are for calculation only and subject to technical progress.

Outer diameters are approximately **