H07Z1-K Tinned Copper

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 Resisatance: 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

Part Number	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]
200062	1x4.0	4.1	45	32	28	12.2
200060	1x6.0	4.7	65	41	36	8.11
200065	1x10	6.0	105	57	50	4.66
200064	1x16	7.0	160	76	68	2.97
200066	1x25	8.8	250	101	89	1.90
200067	1x35	9.9	335	125	110	1.35
200068	1x50	11.7	480	151	134	0.94

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

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