



CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request)
Insulation	EI5 type cross-linked elastomeric compound, (EN 50363-5)
Color	All colors available

MAIN CHARACTERISTICS

Construction	EN 50525-3-41, VDE 0285-525-3-41, IEC 60245-4
General Requirements	EN 50525-1, VDE 0285-525-1, IEC 60245-1
Guide to Use	EN 50565-1/2, VDE 0298-565-1
Electrical Tests	EN 50395, IEC 60245-2
Non-electrical Tests	EN 50396, IEC 60245-2
Conductor Resistance	IEC 60228, VDE 0295
Halogen Content	EN 50363 - 5, IEC 60764 - 1
Smoke Emission	IEC 61034 / 1 - 2, EN 50268 / 1 - 2
Flame Retardant	IEC 60332 - 1 - 2, VDE 0482 - 332 - 1 - 2

OPERATING CHARACTERISTICS

Rated Voltage	H05Z-K 300/500V - H07Z-K 450/750V (U ₀ /U)
AC Test Voltage	2,5 kV
Operating Temperature	-40°C to +90°C
Conductor Short-Circuit Temp.	250°C (Max. 5 sec.)
Min. Installation Temp.	-5°C
Min. Bending Radius	EN 50565-1 Tab. 3
Current Carrying Capacities	VDE 0298-4 Tab.5 & 11, IEC 60364-5-52 Tab. B.52.12

APPLICATIONS

These halogen-free cables are used in internal installations only in dry and clean environments. Due to it's characteristics they are flame retardant and self extinguishing and produce no corrosive gases.



H05Z-K

Cross Section (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (fixed installation) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
1x0,50	2,10	9	6	39,00
1x0,75	2,30	12	7	26,00
1x1	2,50	14	8	19,50

H07Z-K

Cross Section (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (fixed installation) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
1x1,5	2,90	19	9	13,30
1x2,5	3,55	30	11	7,98
1x4	4,05	45	12	4,95
1x6	4,60	63	14	3,30
1x10	6,10	108	18	1,91
1x16	7,10	160	21	1,21
1x25	9,20	249	28	0,78
1x35	10,10	338	30	0,554
1x50	12,00	474	36	0,386
1x70	13,90	677	56	0,272
1x95	15,90	884	64	0,206
1x120	17,60	1117	70	0,161
1x150	19,40	1388	78	0,129
1x185	21,70	1689	87	0,106
1x240	25,00	2278	100	0,0801

* The overall dimensions of cables have been calculated in accordance with EN 60719