

05Z1-K 500/500V

07Z1-K 450/750V

TF
Kable

**Adapted to HD 22.3
DIN VDE 0281-3**



Single core non-sheathed cables with low emission of smoke and corrosive gases

Conductor: annealed copper class 5 flexible acc. to HD 383
Insulation: special thermoplastic low smoke zero halogen compound type HI2 acc. to VDE 0207-23
Colour of insulation: green/yellow, black, blue, brown, grey, orange, pink, red, white or other colours.

Maximum conductor operating temperature: +70°C
Lowest ambient temperature for fixed installation (static): -30°C
Lowest installation temperature (flexing): -5°C
Maximum short-circuit conductor temperature: +160°C
Test voltage 50Hz: 300/500V – 2000V, 450/750V – 2500V
Minimum bending radius: 4 x D, D- overall diameter

PERFORMANCE UNDER FIRE CONDITIONS

Flame propagation: 05Z1-K acc. to EN 50265-2-2 (IEC 60332-2) and 07Z1-K acc. to EN 50265-2-1 (IEC 60332-1)
Smoke emission: EN 50268-2 (IEC 61034-2)
Corrosive and acid gas emission of insulation: EN 50267-2-2 (IEC 60754-2): pH ≥ 4,3; Conductivity: ≤ 10 μS/mm

Application: Single core, non-sheathed cables are suitable particularly for situations in which low emission of smoke and corrosive gases is required in the case of burning.
05Z1-K for internal wiring and fixed protected installation inside appliances and in lighting fittings. Suitable for installation in surface mounted or embedded conduits, only for signaling or control circuits.
07Z1-K - single core, non-sheathed cables are intended for installation in surface mounted or embedded conduits, or similar closed systems. Suitable for fixed or protected installation in or on, lighting and control gear for voltages up to 1000 V a.c. or, up to 1.5 times higher for d.c. usage.

Standard length cable packing: 100 m in coils or on spools, or 500 m on drums. Other forms of packing and delivery are available on request.

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Nominal cross - sectional area of conductor	Maximum diameter of wires in the conductor	Nominal Insulation Thickness	Approximate Overall Diameter	Approximate Net Weight	Maximum resistance of conductor at temperature 20°C
mm ²	mm	mm	mm	kg/km	Ω/km
05Z1-K 300/500V					
0,75	0,21	0,6	2,3	10	26,0
1,0	0,21	0,6	2,5	12	19,5
07Z1-K 450/750V					
1,5	0,26	0,7	2,9	18	13,3
2,5	0,26	0,8	3,6	28	7,98
4	0,31	0,8	4,1	41	4,95
6	0,31	0,8	4,6	59	3,30

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