



## Technical information

- Temperature range flexible -5°C up to +50°C, fixed -30°C up to +70°C
- Minimum bending radius; 10x cable Ø
- Nominal voltage; 300 V
- Test voltage; 800 V (core/core and core/screen)
- Mutual capacitance; 100nF/km (for the cables up to 4 pair, this value may be increased by 20%)
- Capacitance unbalances; 300pF/100m (20% of the values, but one value up to 500pF is allowed)
- Loop resistance @20°C  
0,80mm - max. 73,2 Ohm/km  
1,0mm<sup>2</sup> - max. 36,2 Ohm/km  
1,5mm<sup>2</sup> - max. 24,2 Ohm/km
- Insulation resistance; min. 100 M.Ohm x km

Installation cable according to DIN VDE 0815

TSE	TSEK UBM-03-BK-023
VDE	DIN VDE 0815
CE	Low Voltage Directive 2006/95/EC
	RoHS compliant

## Cable construction

- Annealed solid copper conductor; Ø 0,80, 1,12 and 1,37mm
- Core insulation PVC compound; type Y11 acc. to DIN VDE 0207 part 4, type T151 acc. to EN 50290 2-21
- Core and pair identification acc. to DIN VDE 0815
- Cores twisted in pairs and pairs stranded together in layers with optimal lay-length (2-paired versions are stranded in star quad cable design)
- Polyester tape used as separator over cores
- Tinned copper drain wire Ø 0,80mm, electrostatic screen (St) of plastic coated aluminium foil
- Outer sheath, flame resistant PVC compound; type YM1 acc. to DIN VDE 0207 part 5, type TM51 acc. to EN 50290 2-22
- Outer sheath colour, Red RAL 3000

## Features

- Vertical flame propagation acc. to, DIN VDE 0482-332-1-2, EN 60332 1-2, IEC 60332 1-2

## Application

These cables are used especially for installation in fire alarm systems. Thanks to electrostatic screen and tin-plated drain wire, external electrical interferences of high frequency and electromagnetic field are minimized. Twisted pair structure minimizes crosstalk. For fixed installation on and under plaster, in dry and damp rooms. For outdoor use this cable should be installed under plaster only.

Part No.	No. pairs x diameter [mm]	Outer Ø app. [mm]	Cu weight [kg/km]	Cable weight [kg/km]	Part No.	No. pairs x cross-sec. [mm <sup>2</sup> ]	Outer Ø app. [mm]	Cu weight [kg/km]	Cable weight [kg/km]
109097	1x2x0,80	5,5	10,2	37	109173	1x2x1,0	6,3	22,2	55
109098	2x2x0,80	6,1	19,3	52	109174	2x2x1,0	7,1	40,0	82
109099	3x2x0,80	8,1	28,4	76	109175	1x2x1,5	7,1	30,6	70
109100	4x2x0,80	8,8	37,5	93	109176	2x2x1,5	8,1	56,9	109