



## Technical data

- Flame retardant, halogen-free installation cable to DIN VDE 0815
- **Temperature range**  
flexing -5°C to +50°C  
fixed installation -30°C to +70°C
- **Loop resistance** at 20°C  
max. 130 Ohm/km at 0,6 mm<sup>2</sup>  
max. 73,2 Ohm/km at 0,8 mm<sup>2</sup>
- **Operating voltage** (peak value)  
300 V  
(not for purposes of high current and power installation)
- **Test voltage**  
core/core U eff. 800 V  
core/screen 800 V
- **Insulation resistance**  
min. 100 MOhm x km
- **Mutual capacitance** at 800 Hz  
max. 120<sup>1)</sup> nF/km
- **Capacitance unbalances** at 800 Hz  
K<sub>1</sub> max. 300<sup>2)</sup> pF/100 m  
K<sub>9</sub>-K<sub>12</sub> max. 100<sup>3)</sup> pF/100 m
- **Line attenuation** at 800 Hz  
approx. 1,5 dB/km
- **Minimum bending radius**  
during delivery 7,5x cable Ø  
single bending without tension  
= 2,5x cable Ø  
repeated bending under tension  
= 7,5x cable Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)
- **Caloric load values**  
see technical informations

## Cable construction

- Bare copper conductor, solid, 0,6 mm Ø and 0,8 mm Ø
- Core insulation of halogen-free compound type HI2, to DIN VDE 0207 part 23 insulation wall thickness 0,3 or 0,4 mm
- Core and star-quad identification to DIN VDE 0815
- Cores twisted in quads
- The cores to quads and the quads are stranded to units
- Core wrapping with plastic tape
- Drain wire solid
- Electrostatic screen (St) of plastic coated aluminium foil
- Halogen-free outer jacket type HM2 to DIN VDE 0207 part 24
- Jacket colour grey

## Properties

- Not for purposes of high current and power installation as well as underground laying.
  - The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- ### Tests
- Flame test to DIN VDE 0482 part 266-2/ HD 405.3, BS 4066 part 3/ EN 50266-2/ IEC 60332-3 (equivalent DIN VDE 0472 part 804 test method C)
  - Corrosiveness of combustion gases according to DIN VDE 0482 part 267/ EN 50267-2-2/ IEC 60754-2 (equivalent DIN VDE 0472 part 813)
  - Smoke density according to DIN VDE 0482 part 1034-1+2, HD 606, DIN EN 61034-1+2/ IEC 61034-1+2, BS 7622 part 1+2 (equivalent DIN VDE 0472 part 816)

## Note

- <sup>1)</sup> This value may be extended by 20% with make-up up to 4 pairs.
- <sup>2)</sup> 20% of the values, but one value up to 500 pF is allowed.
- <sup>3)</sup> 10% of the values, but four values (relationship) up to 300 pF are allowed.
- **LSOH** = Low Smoke Zero Halogen-free.

## Application

The halogen-free installation cables with improved characteristics in the case of fire are used for the telephone transmission, measurement and control technology.

The static screen protects the transmission circuits against outer electrical interferences. A fire propagation is prevented through high oxygen index of the insulation material and produce no corrosive gases in case of fire. Those cables are preferably used for telecommunication indoor installations and in special cases the outdoor installation is permitted under protection against sunlight. These cables are suitable for fixed installation in areas with danger of fire, in dry and damp environments as well as on, in and under plaster.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No.pairs x diameter mm	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
34050	2 x 2 x 0,6	5,8	14,0	50,0
34051	4 x 2 x 0,6	8,6	25,0	91,0
34052	6 x 2 x 0,6	9,0	37,0	100,0
34053	10 x 2 x 0,6	10,3	59,0	147,0
34054	20 x 2 x 0,6	15,5	116,0	308,0
34055	30 x 2 x 0,6	16,5	172,0	350,0
34056	40 x 2 x 0,6	18,6	229,0	465,0
34057	50 x 2 x 0,6	20,7	286,0	571,0
34058	60 x 2 x 0,6	22,8	342,0	662,0
34059	80 x 2 x 0,6	26,6	455,0	877,0
34060	100 x 2 x 0,6	28,2	568,0	1055,0

Part No.	No.pairs x diameter mm	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
34061	2 x 2 x 0,8	6,8	25,0	70,0
34062	4 x 2 x 0,8	10,5	45,0	135,0
34063	6 x 2 x 0,8	10,9	65,0	151,0
34064	10 x 2 x 0,8	13,1	106,0	230,0
34065	20 x 2 x 0,8	20,4	206,0	507,0
34066	30 x 2 x 0,8	21,5	307,0	600,0
34067	40 x 2 x 0,8	24,5	407,0	788,0
34068	50 x 2 x 0,8	27,1	508,0	972,0
34069	60 x 2 x 0,8	29,4	608,0	1120,0
34070	80 x 2 x 0,8	33,2	809,0	1475,0
34071	100 x 2 x 0,8	37,2	1010,0	1804,0

Dimensions and specifications may be changed without prior notice.