



## Technical data

- Special insulation for cores and outer jacket
- According to DIN VDE 0815
- Compound to DIN VDE 0207 part 23 HI 1, flame resistant
- **Insulation integrity** 180 min tested to DIN VDE 0472 part 814 and IEC 60331, to DIN 4102 adapted to E 30
- **Functionality** E 90 min
- **Loop resistance** max. 73 Ohm/km
- **Operating voltage** (peak voltage) max. 225 V (not for purposes of high current and power installation)
- **Test voltage**  
core/core 500 V  
core/screen 2000 V
- **Insulation resistance**  
min. 100 MOhm x km
- **Mutual capacitance**  
max. 120 nF/km at 800 Hz
- **Minimum bending radius**  
approx. 6x cable Ø
- **Caloric load values**  
see Technical Informations

## Cable construction

- Bare solid copper conductor, 0,8 mm Ø
- Special core insulation halogen-free, cross-linked polymer to DIN VDE 0207 part 23, HI1, flame retardant (E90 with special foil wrapping over conductor)
- 2 cores twisted to pair and each 4 pairs layed up in bunches, the bunches stranded in layers
- Glass-fibre taped
- Screening with alu-laminated polyester tape and solid copper drain wire 0,8 mm Ø
- Inner sheath, flame retardant polyolefin compound to DIN VDE 0207 part 24 HM3
- Galvanized steel wire braided screen
- Special outer jacket HM2 to DIN VDE 0207 part 24, flame resistant
- Outer jacket red (RAL 3000) with imprint "BRANDMELDEKABEL"

## 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)
- **LSOH** = Low Smoke Zero Halogen-free.

## Properties

- No fire propagation
- Low smoke density
- Not for purposes of high current and power installation as well as underground laying
- **FE 180: Insulation integrity** for 180 minutes. Tests to DIN VDE 0472 part 814 ± IEC 60331.  
**Insulation integrity** under direct flame propagation for the test period of 180 minutes.
- **E 30: Functionality** of electrical cable systems for minimum 30 minutes. Test to DIN 4102 part 12.  
The **functionality** for 30 minutes assures when persons and animals are to be saved from a burning building. 30 minutes secures the functional performance of the fire warning and alarm systems, safety and spare lighting, passenger lifts with evacuation circuits, except the cables which are installed within the ladder shafts and engine rooms.
- **E 90: Functionality** of electrical cable systems for minimum 90 minutes. Test method to DIN 4102 part 12.  
The **functionality** for 90 minutes assures the functional performance of water-pressure-rising stations for the supply to avoid smoke and heat in safety-stairs and inner rooms, ladder shafts and engine rooms for fire brigade lifts, emergency lifts for sickbeds in hospitals and the fire brigade lifts.

## Note

- **E 30 to E 90**  
Functionality is dependant on installation technique.

## Application

Flame resistant, halogen-free, static screened installation cables for telecommunication purpose. The static screen prevents strong interference impulse.

Suitable for fixed installation everywhere, where in case of fire human life and material assets are to be protected and a safety conciousness take a special significance, e.g. in industrial complexes, public buildings, hotels, airports, under ground railway networks, hospitals.

**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 |
|----------|------------------------|----------------|---------------------|--------------------|
| 34075    | 2 x 2 x 0,8            | 10,5           | 25,0                | 150,0              |
| 34076    | 4 x 2 x 0,8            | 14,8           | 45,0                | 275,0              |
| 34077    | 8 x 2 x 0,8            | 21,1           | 85,0                | 545,0              |
| 34078    | 12 x 2 x 0,8           | 22,7           | 126,0               | 602,0              |
| 34079    | 16 x 2 x 0,8           | 25,0           | 166,0               | 734,0              |

| Part No. | No.pairs x diameter mm | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km |
|----------|------------------------|----------------|---------------------|--------------------|
| 34080    | 20 x 2 x 0,8           | 26,9           | 206,0               | 870,0              |
| 34072    | 32 x 2 x 0,8           | 35,0           | 326,0               | 1360,0             |
| 34073    | 40 x 2 x 0,8           | 41,0           | 407,0               | 1800,0             |
| 34074    | 52 x 2 x 0,8           | 44,0           | 529,0               | 2038,0             |

Dimensions and specifications may be changed without prior notice.