



## Technical data

- Industry-Electronic cable according to DIN VDE 0815
- **Loop resistance** at 20°C  
39,2 Ohm/km
- **Temperature range**  
flexing -5°C to +50°C  
fixed installation -30°C to +70°C
- **Operating voltage** (peak value)  
225 V (not for purposes of high current and power installation)
- **Test voltage** U eff.  
core/core 500 V  
core/screen 2000 V
- **Insulation resistance**  
min. 100 MOhm x km
- **Mutual capacitance**  
max. 120 nF/km at 800 Hz (this values may be extended at 20% with a make-up up to 4 pairs)
- **Capacitance unbalance**  
max. 200 pF/100 m (20% of the values, but one value up to 400 pF is allowed)
- **Minimum bending radius**  
approx. 7,5x cabel 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, 7x0,3 mm ± 0,5 mm<sup>2</sup>
- Halogen-free core insulation, compound type HI1 or HI2 to DIN VDE 0207 part 23, insulation wall thickness 0,3 mm
- Core identification to DIN VDE 0815 (with ring colours and ring groups)
- 2 cores twisted in pair, 4 pairs to a unit and several units stranded in layers (for 2 pairs cable, 4 cores stranded to a quad)
- Core wrapping with plastic tape
- Copper braided screening, wire 0,2 mm, approx. 85% coverage
- Outer jacket halogen-free, grey RAL 7032, compound type HM1 or HM2 to DIN VDE 0207 part 24
- Jacket wall-thickness to DIN VDE 0815

## Properties

- Not for purposes of high current and power installation as well as underground laying

## 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

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- **LSOH** = Low Smoke Zero Halogen-free.

## Application

Halogen-free installation cables with improved characteristics in the case of fire are used for telephone transmission, measuring and signal purposes.

The copper screened design (C) protects the transmission circuits against 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 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 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 cross-sec. mm <sup>2</sup>	Core ø ca. mm	No. units	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
34350	2 x 2 x 0,5	1,6	-	9,0	44,0	102,0	20
34351	4 x 2 x 0,5	1,6	1	12,0	80,0	168,0	20
34352	8 x 2 x 0,5	1,6	2	17,0	152,0	297,0	20
34353	12 x 2 x 0,5	1,6	3	18,0	192,0	357,0	20

Part No.	No.pairs x cross-sec. mm <sup>2</sup>	Core ø ca. mm	No. units	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
34354	20 x 2 x 0,5	1,6	5	22,0	288,0	555,0	20
34355	32 x 2 x 0,5	1,6	8	26,0	439,0	852,0	20
34356	40 x 2 x 0,5	1,6	10	29,0	531,0	1005,0	20

Dimensions and specifications may be changed without prior notice.