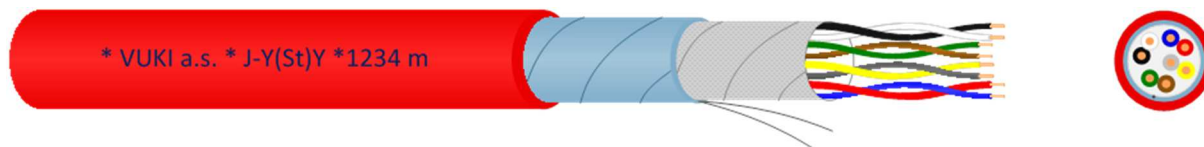




Cables for electric fire-alarm signalization



Application:

Signal cables are used for mutual sensor connections and evaluation centres of fire-fighting and security systems. They can be used until max. voltage of 300 V, for fixed placement in standard conditions. Cables can be placed under the wall-plaster.

Cable construction:

- **Number of pairs:** 1 - 20
- **Cable cores:** copper conductor cl. 1
- **Nominal diameter:** 0,6 mm; 0,8 mm
- **Insulation:** PVC
- Cores are stranded in pairs. 4 pairs are stranded in a unit. Units are stranded in layer.
- **Shield construction:** PET tape + AIPET tape with CuSn wire
- **Sheath cable:** PVC
- **Colour of sheath:** red or other if required

Marking:

- Colour coded acc. to VDE 0815.
a-conductor colour is by the first pair in each position red, by others it is white
b-conductor: blue, yellow, green, brown, black and then repeating as in previous order

| Number of pair | | | | | | colour |
|----------------|----|----|----|----|----|--------|
| 1 | 6 | 11 | 16 | 21 | 26 | blue |
| 2 | 7 | 12 | 17 | 22 | 27 | yellow |
| 3 | 8 | 13 | 18 | 23 | 28 | green |
| 4 | 9 | 14 | 19 | 24 | 29 | brown |
| 5 | 10 | 15 | 20 | 25 | 30 | black |

2-pair cable as X-shape:

| | | | | |
|-----------|-------------|------|-------------|--------|
| 1 in pair | a-conductor | blue | b-conductor | red |
| 2 in pair | a-conductor | grey | b-conductor | yellow |



Technical data

- **Nominal voltage:** 300 V
- **Test voltage :** 800 V
- **Effective resistance of conductor, max.:** 0,6 mm - 65,0 Ω/km
0,8 mm - 36,0 Ω/km
- **Mutual capacitance (at 800 Hz), max.:** 120 nF/km*
(* the value can exceed of 20% by cables up to 5-pairs)
- **Max. admissible conductor temperature:** +70 °C
- **Operating temperature:** -30 °C to +70 °C
- **Min. temperature for laying:** -5 °C
- **Min. bending radius:** 15 x cable diameter

| Number of pairs | Outer diameter (appr.) mm | Weight (appr.) kg/km |
|-----------------|------------------------------|-------------------------|
| 1x2x0,8 | 5,8 | 27 |
| 2x2x0,8 | 6,7 | 46 |
| 4x2x0,8 | 9,2 | 92 |
| 5x2x0,8 | 10 | 112 |
| 8x2x0,8 | 12 | 180 |
| 12x2x0,8 | 15 | 240 |
| 16x2x0,8 | 17 | 310 |
| 20x2x0,8 | 20 | 370 |

