# TELECOMMUNICATION AND FIRE ALARM CABLES

**For information transmission at dry and moist production sites, in and under plaster, outdoors for fixed installation.**



VOKA

# J-YY ... Bd

**acc. to DIN VDE 0815**

## APPLICATION

For information transmission at dry and moist production sites, in and under plaster, outdoors for fixed installation Not approved for power and underground installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare; Ø 0,6 mm
**Core insulation**: PVC
**Core stranding**: 1 x 2 to pair; cores stranded to star-quads; quads to lay up
**Lapping**: plastic foil
**Sheath**: PVC; colour: pebble grey RAL 7032

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| (Conductor) loop resistance max. | 130 Ω/km |
| Insulation resistance min. | 100 MΩ x km |
| Mutual capacitance max. (800 Hz) | 100 nF/km |
| Capacitance unbalance $C_1$ max. | 300 pF/100 m |
| Test voltage | 800 V 50 Hz 1 Min. |
| Peak operating voltage | 300 V |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | -5°C to +50°C |
| Temperature range stationary | -30°C to +70°C |
| Minimum bending radius | 7,5 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 1 x 2 x 0,6 | 1,1 | 4,5 | 26 | 5,7 | |
| 2 x 2 x 0,6 | 1,1 | 5,3 | 33 | 11 | 10563600 |
| 4 x 2 x 0,6 | 1,1 | 7,0 | 54 | 23 | 10563700 |
| 6 x 2 x 0,6 | 1,1 | 7,3 | 69 | 34 | 10563800 |
| 10 x 2 x 0,6 | 1,1 | 8,4 | 103 | 57 | 10563900 |
| 12 x 2 x 0,6 | 1,1 | 9,0 | 115 | 70 | 10569200 |
| 16 x 2 x 0,6 | 1,1 | 11,2 | 154 | 90 | 10564000 |
| 20 x 2 x 0,6 | 1,1 | 11,7 | 185 | 113 | 10564100 |
| 24 x 2 x 0,6 | 1,1 | 12,3 | 210 | 138 | 10564200 |
| 30 x 2 x 0,6 | 1,3 | 13,4 | 268 | 170 | 10564300 |
| 40 x 2 x 0,6 | 1,3 | 14,7 | 340 | 226 | 10564400 |
| 50 x 2 x 0,6 | 1,5 | 16,0 | 413 | 283 | 10564500 |
| 60 x 2 x 0,6 | 1,5 | 16,6 | 480 | 339 | 10564600 |
| 80 x 2 x 0,6 | 1,7 | 22,4 | 645 | 452 | 10563500 |
| 100 x 2 x 0,6 | 1,7 | 23,3 | 789 | 565 | 10564700 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg
Price upon quantity-specific request



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# J-YY BMK

**referring to DIN VDE 0815**

## APPLICATION

As telecommunication cable for alarm equipment in dry and moist production sites, for fixed installation in buildings. Not applicable for power and underground installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare; Ø 0,8 mm
**Core insulation**: PVC
**Core stranding**: 1 x 2 to pair, 2 x 2 to quad
**Lapping**: plastic foil
**Sheath**: PVC; colour: red RAL 3000

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| (Conductor) loop resistance max. | 73,2 Ω/km |
| Insulation resistance min. | 100 MΩ x km |
| Mutual capacitance max. | 100 nF/km |
| Test voltage | 800 V 50 Hz 1 Min. |
| Peak operating voltage | 300 V |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | -5°C to +50°C |
| Temperature range stationary | -30°C to +70°C |
| Minimum bending radius | 7,5 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 1 x 2 x 0,8 | 1,1 | 5,2 | 35 | 10,0 | 10585400 |
| 2 x 2 x 0,8 | 1,1 | 5,9 | 51 | 20,0 | 10585500 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg
Price upon quantity-specific request

# J-Y(St)Y ... Lg

**acc. to DIN VDE 0815**

## APPLICATION

For information transmission in dry and moist production sites, in and under plaster, outdoors for fixed installation Not approved for power and underground installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare; Ø 0,6/0,8 mm
**Core insulation**: PVC
**Core stranding**: pairs twisted to layers, 2 x 2 to quad
**Lapping**: plastic foil
**Screen**: drain wire, plastic-laminated aluminium foil
**Sheath**: PVC; colour: pebble grey RAL 7032

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| Loop resistance max. Ø 0,6 mm | 130 Ω/km |
| Loop resistance max. Ø 0,8 mm | 73,2 Ω/km |
| Insulation resistance min. | 100 MΩ x km |
| Mutual capacitance max. | 100 nF/km |
| up to 4 DA max. | 120 nF/km |
| Capacitance unbalance max. | 300 pF/100 m |
| Peak operating voltage | 300 V |
| Test voltage core-core | 800 V 50 Hz 1 Min. |
| Test voltage core-screen | 800 V 50 Hz 1 Min. |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range stationary | -30°C to +70°C |
| Minimum bending radius | 7,5 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 1 x 2 x 0,6 | 1,1 | 4,5 | 26 | 7 | 10341100 |
| 2 x 2 x 0,6 | 1,1 | 4,9 | 35 | 13 | 10080000 |
| 3 x 2 x 0,6 | 1,1 | 6,2 | 49 | 18 | 10081600 |
| 4 x 2 x 0,6 | 1,1 | 6,6 | 58 | 24 | 10081700 |
| 5 x 2 x 0,6 | 1,1 | 7,1 | 59 | 30 | 10081800 |
| 6 x 2 x 0,6 | 1,1 | 7,6 | 61 | 35 | 10081900 |
| 8 x 2 x 0,6 | 1,1 | 8,1 | 93 | 46 | 10084000 |
| 10 x 2 x 0,6 | 1,1 | 8,6 | 113 | 58 | 10084100 |
| 12 x 2 x 0,6 | 1,1 | 9,5 | 129 | 71 | 10084200 |
| 16 x 2 x 0,6 | 1,1 | 10,4 | 163 | 93 | 10084400 |
| 20 x 2 x 0,6 | 1,1 | 10,9 | 191 | 116 | 10086900 |
| 24 x 2 x 0,6 | 1,3 | 13,0 | 239 | 139 | 10557200 |
| 30 x 2 x 0,6 | 1,3 | 13,7 | 284 | 172 | 10557300 |
| 40 x 2 x 0,6 | 1,3 | 14,5 | 358 | 229 | 10557400 |
| 50 x 2 x 0,6 | 1,5 | 16,5 | 438 | 286 | 10557500 |
| 60 x 2 x 0,6 | 1,5 | 17,5 | 512 | 342 | 10557600 |
| 80 x 2 x 0,6 | 1,5 | 19,6 | 676 | 455 | 10557900 |
| 100 x 2 x 0,6 | 1,7 | 22,1 | 829 | 568 | 10557700 |
| 1 x 2 x 0,8 | 1,1 | 5,5 | 38 | 11 | 10330900 |
| 2 x 2 x 0,8 | 1,1 | 6,1 | 54 | 21 | 10080200 |
| 3 x 2 x 0,8 | 1,1 | 8,0 | 77 | 31 | 10081000 |
| 4 x 2 x 0,8 | 1,1 | 8,7 | 94 | 41 | 10082000 |
| 5 x 2 x 0,8 | 1,1 | 9,4 | 114 | 52 | 10558000 |
| 6 x 2 x 0,8 | 1,1 | 10,1 | 135 | 62 | 10082200 |
| 8 x 2 x 0,8 | 1,1 | 10,2 | 154 | 82 | 10084500 |
| 10 x 2 x 0,8 | 1,3 | 13,1 | 205 | 102 | 10084600 |
| 12 x 2 x 0,8 | 1,3 | 13,5 | 235 | 123 | 10558100 |
| 16 x 2 x 0,8 | 1,3 | 14,8 | 299 | 164 | 10556400 |
| 20 x 2 x 0,8 | 1,3 | 15,6 | 352 | 204 | 10087700 |
| 24 x 2 x 0,8 | 1,5 | 18,4 | 437 | 244 | 10556500 |
| 30 x 2 x 0,8 | 1,5 | 19,4 | 522 | 304 | 10556600 |
| 40 x 2 x 0,8 | 1,5 | 20,9 | 663 | 405 | 10556700 |
| 50 x 2 x 0,8 | 1,7 | 23,7 | 832 | 506 | 10556800 |
| 60 x 2 x 0,8 | 1,7 | 25,8 | 978 | 606 | 10556900 |
| 80 x 2 x 0,8 | 1,9 | 28,8 | 1288 | 807 | 10558200 |
| 100 x 2 x 0,8 | 2,1 | 32,5 | 1900 | 1008 | 10557100 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg • Price upon quantity-specific request



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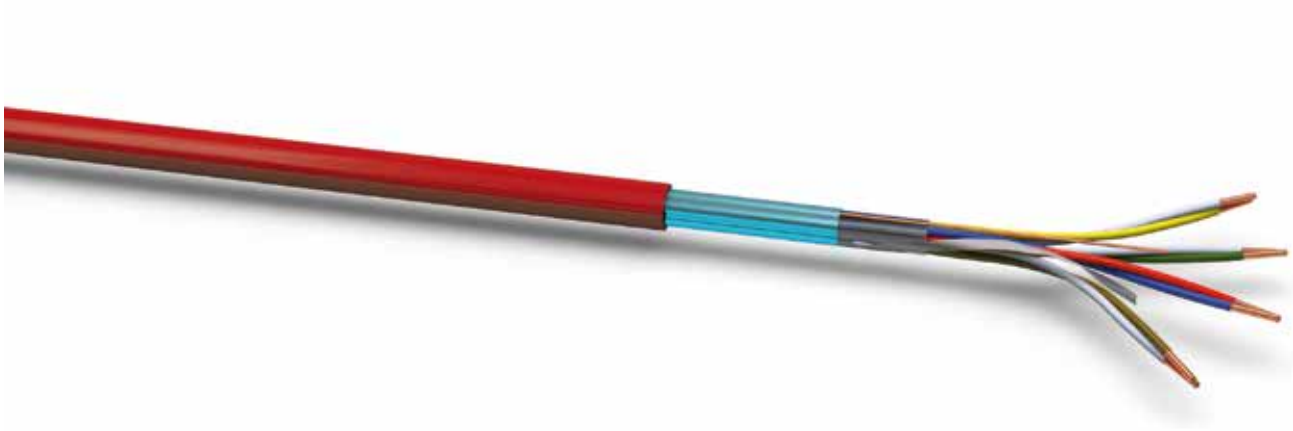
# J-Y(St)Y BMK



## APPLICATION

For alarm equipment in dry and moist production sites, for fixed installation in buildings. Not approved for power installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare; Ø 0,8 mm
**Core insulation**: PVC
**Core stranding**: pairs twisted to layers, 2 x 2 to quad
**Lapping**: plastic foil
**Screen**: drain wire, plastic-laminated aluminium foil
**Sheath**: PVC; colour: red RAL 3000;
imprint: BRANDMELDEKABEL FIRE ALARM CABLE

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| (Conductor) loop resistance max. | 73,2 Ω/km |
| Insulation resistance min. | 100 MΩ x km |
| Mutual capacitance max. | 100 nF/km |
| up to 4 DA max. | 120 nF/ km |
| Capacitance unbalance max. | 300 pF/100 m |
| Peak operating voltage | 300 V |
| Test voltage core-core | 800 V 50 Hz 1 Min. |
| Test voltage core-screen | 800 V 50 Hz 1 Min. |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range stationary | -30°C to +70°C |
| Minimum bending radius | 7,5 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 1 x 2 x 0,8 | 1 | 5,5 | 38 | 11 | 10004700 |
| 2 x 2 x 0,8 | 1 | 6,1 | 54 | 21 | 10001400 |
| 3 x 2 x 0,8 | 1 | 8,0 | 77 | 31 | 10001500 |
| 4 x 2 x 0,8 | 1 | 8,7 | 94 | 41 | 10001600 |
| 5 x 2 x 0,8 | 1 | 9,4 | 114 | 52 | 10003600 |
| 6 x 2 x 0,8 | 1 | 10,1 | 135 | 62 | 10003700 |
| 8 x 2 x 0,8 | 1 | 10,2 | 154 | 82 | 10003800 |
| 10 x 2 x 0,8 | 1 | 12,0 | 205 | 102 | 10003900 |
| 12 x 2 x 0,8 | 1 | 12,8 | 235 | 123 | 10004000 |
| 16 x 2 x 0,8 | 1 | 14,0 | 299 | 164 | 10004100 |
| 20 x 2 x 0,8 | 1 | 15,0 | 352 | 204 | 10004200 |
| 24 x 2 x 0,8 | 1 | 18,0 | 437 | 244 | 10004300 |
| 30 x 2 x 0,8 | 1,2 | 19,0 | 522 | 304 | 10004400 |
| 40 x 2 x 0,8 | 1,2 | 20,9 | 663 | 405 | 10004500 |
| 50 x 2 x 0,8 | 1,2 | 23,4 | 832 | 506 | 10004600 |
| 60 x 2 x 0,8 | 1,2 | 25,0 | 978 | 606 | 10004900 |
| 100 x 2 x 0,8 | 1,4 | 32,5 | 1900 | 1008 | 10429100 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg
Price upon quantity-specific request

# J-2Y(St)Y ... St III Bd
# J-2Y(St)Y ... St III Bd/LAN

**referring to DIN VDE 0815/0816**
**10 Mbit / 16 Mbit (LAN)**

## APPLICATION

Connecting and junction cable for data transmission electronics in data processing and communication systems. Laying in and under plaster as well as in usual cable trays for indoor installation. Reachable line length up to 120 m. Not approved for power and underground installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare; Ø 0,6 mm
**Core insulation**: PE
**Core stranding**: cores to star-quads stranded; 5 quads to lay up; bundles to lay up
**Lapping**: plastic foil
**Screen**: drain wire, plastic-laminated aluminium foil
**Sheath**: PVC/halogen-free compound; colour: grey RAL 7032

## ELECTRICAL CHARACTERISTICS

| | | |
|---|---|---|
| (Conductor) loop resistance max. | | 130 Ω/km |
| Insulation resistance min. | | 5 GΩ x km |
| Peak operating voltage | | 300 V |
| Test voltage core-core | | 500 V 50 Hz 2 Min. |
| Test voltage core-screen | | 2000 V 50 Hz 2 Min. |
| Mutual capacitance max. (800 Hz) | | 52 nF/km |
| **additional for J-2Y(St)Y St III Bd/LAN:** | | |
| Capacitance unbalance $C_1$ (800 Hz) | | max. 800 pF/300 m |
| Capacitance unbalance $C_{9-12}$ (800 Hz) | | max. 300 pF/300 m |
| NEXT 4 to 16 MHz | to 2 x 2/off 4x2 | min. 45/25 dB |
| Char. impedance | from 4 to 16 MHz | 100 Ω ± 15 % |
| Wave attenuation | 1 MHz ≤ 35 dB/km | 4 MHz ≤ 55 dB/km |
| | 10 MHz ≤ 73 dB/km | 16 MHz ≤ 86 dB/km |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | -5 °C to +50 °C |
| Temperature range stationary | -30 °C to +70 °C |
| Minimum bending radius | 15 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 2 x 2 x 0,6 | 1,0 | 6,1 | 36 | 13 | 10079900 |
| 4 x 2 x 0,6 | 1,0 | 7,5 | 59 | 24 | 10009300 |
| 6 x 2 x 0,6 | 1,0 | 7,7 | 73 | 35 | 10183500 |
| 10 x 2 x 0,6 | 1,0 | 8,9 | 104 | 58 | 10183600 |
| 20 x 2 x 0,6 | 1,0 | 12,7 | 188 | 116 | 10183700 |
| 30 x 2 x 0,6 | 1,2 | 14,0 | 270 | 172 | 10183800 |
| 50 x 2 x 0,6 | 1,4 | 17,5 | 415 | 286 | 10183900 |
| 60 x 2 x 0,6 | 1,4 | 17,9 | 490 | 342 | 10184000 |
| 80 x 2 x 0,6 | 1,6 | 24,4 | 678 | 455 | 10184100 |
| 100 x 2 x 0,6 | 1,6 | 26,0 | 800 | 568 | 10184200 |
| **LAN** | | | | | |
| 2 x 2 x 0,6 | 1,0 | 6,1 | 36 | 13 | 10336000 |
| 4 x 2 x 0,6 | 1,0 | 7,5 | 59 | 24 | 10336100 |
| 6 x 2 x 0,6 | 1,0 | 7,7 | 73 | 35 | 10336200 |
| 10 x 2 x 0,6 | 1,0 | 8,9 | 104 | 58 | 10336300 |
| 20 x 2 x 0,6 | 1,0 | 12,7 | 188 | 116 | 10336400 |
| 30 x 2 x 0,6 | 1,2 | 14,0 | 270 | 172 | 10336500 |
| 50 x 2 x 0,6 | 1,4 | 17,5 | 415 | 286 | 10336600 |
| 60 x 2 x 0,6 | 1,4 | 17,9 | 490 | 342 | 10336700 |
| 80 x 2 x 0,6 | 1,6 | 24,4 | 678 | 455 | 10336800 |
| 100 x 2 x 0,6 | 1,6 | 26,0 | 800 | 568 | 10336900 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg • Price upon quantity-specific request



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# J-HH ... Bd

**acc. to DIN VDE 0815**

## APPLICATION

This halogen-free, flame-resistant installation cable is used where increased fire protection of persons, material goods and buildings is required. It serves for information transmission in communication systems with fixed installation. Not applicable for power installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare; Ø 0,6 mm
**Core insulation**: halogen-free compound
**Core stranding**: cores by fours stranded to star-quads, quads to lay up
**Lapping**: plastic foil
**Sheath**: halogen-free compound; colour: pebble grey RAL 7032

## BEHAVIOR UNDER FIRE CONDITIONS

Low flame propagation acc. to requirements specified in IEC 60 332.3
No emission of corrosive gases
Low smoke development

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| (Conductor) loop resistance max. | 130 Ω/km |
| Insulation resistance min. | 100 MΩ x km |
| Mutual capacitance max. | 120 nF/km |
| Mutual capacitance up to 4 DA max. | 140 nF/km |
| Test voltage | 800 V 50 Hz 1 Min. |
| Peak operating voltage | 300 V |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | -5° C to +50 °C |
| Temperature range stationary | -30 °C to +70 °C |
| Minimum bending radius | 7,5 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 2 x 2 x 0,6 | 1,0 | 5,0 | 35 | 11 | 10624100 |
| 4 x 2 x 0,6 | 1,0 | 7,0 | 60 | 23 | 10624200 |
| 6 x 2 x 0,6 | 1,0 | 7,5 | 75 | 34 | 10624300 |
| 10 x 2 x 0,6 | 1,0 | 9,6 | 100 | 57 | 10624400 |
| 16 x 2 x 0,6 | 1,2 | 11,2 | 165 | 90 | 10624500 |
| 20 x 2 x 0,6 | 1,2 | 12,5 | 201 | 113 | 10624600 |
| 24 x 2 x 0,6 | 1,2 | 13,4 | 228 | 138 | 10624800 |
| 30 x 2 x 0,6 | 1,2 | 14,7 | 285 | 170 | 10624700 |
| 40 x 2 x 0,6 | 1,4 | 16,8 | 362 | 226 | 10624900 |
| 50 x 2 x 0,6 | 1,4 | 18,9 | 439 | 283 | 10625000 |
| 60 x 2 x 0,6 | 1,4 | 20,0 | 518 | 339 | 10625100 |
| 80 x 2 x 0,6 | 1,6 | 23,3 | 685 | 452 | 10625200 |
| 100 x 2 x 0,6 | 1,6 | 25,7 | 840 | 565 | 10625300 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg
Price upon quantity-specific request

# J-H(St)H ... Bd

**acc. to DIN VDE 0815**

## APPLICATION

This halogen-free, flame-resistant installation cable is used where increased fire protection of persons, material goods and buildings is required. It serves for information transmission in communication systems with fixed installation. Not applicable for power installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare; Ø 0,6/0,8 mm
**Core insulation**: halogen-free compound
**Core stranding**: cores by fours stranded to star-quads; quads to lay up
**Lapping**: plastic foil
**Screen**: drain wire; plastic-laminated aluminium foil
**Sheath**: halogen-free compound; colour: pebble grey RAL 7032

## BEHAVIOR UNDER FIRE CONDITIONS

Low flame propagation acc. to requirements specified in DIN EN 50266-2-4, VDE 0482 as well as IEC 60 332.3
No emission of corrosive gases
Low smoke development

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| (Conductor) loop resist. max. Ø 0,6 mm | 130 Ω/km |
| (Conductor) loop resist. max. Ø 0,8 mm | 73,2 Ω/km |
| Insulation resistance min. | 100 MΩ x km |
| Mutual capacitance max. | 120 nF/km |
| up to 4 DA max. | 140 nF/km |
| Peak operating voltage | 300 V |
| Test voltage | 800 V 50 Hz 1 Min. |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | -5°C to +50°C |
| Temperature range stationary | -30°C to +70°C |
| Minimum bending radius | 7,5 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 2 x 2 x 0,6 | 1,0 | 5,4 | 42 | 14 | 10622100 |
| 4 x 2 x 0,6 | 1,0 | 7,4 | 69 | 25 | 10622200 |
| 6 x 2 x 0,6 | 1,0 | 7,7 | 86 | 37 | 10622300 |
| 10 x 2 x 0,6 | 1,0 | 9,1 | 124 | 59 | 10622400 |
| 20 x 2 x 0,6 | 1,2 | 13,5 | 237 | 116 | 10622500 |
| 30 x 2 x 0,6 | 1,2 | 15,1 | 324 | 172 | 10622600 |
| 40 x 2 x 0,6 | 1,2 | 16,5 | 410 | 229 | 10622700 |
| 50 x 2 x 0,6 | 1,4 | 18,6 | 515 | 286 | 10622800 |
| 60 x 2 x 0,6 | 1,4 | 19,3 | 600 | 342 | 10622900 |
| 80 x 2 x 0,6 | 1,4 | 24,6 | 800 | 455 | 10623000 |
| 100 x 2 x 0,6 | 1,6 | 27,2 | 990 | 568 | 10623100 |
| 2 x 2 x 0,8 | 1,0 | 6,5 | 69 | 25 | 10467100 |
| 4 x 2 x 0,8 | 1,0 | 8,5 | 112 | 45 | 10467200 |
| 6 x 2 x 0,8 | 1,0 | 9,0 | 141 | 65 | 10467300 |
| 10 x 2 x 0,8 | 1,0 | 10,7 | 204 | 106 | 10467400 |
| 20 x 2 x 0,8 | 1,2 | 15,7 | 370 | 206 | 10467500 |
| 30 x 2 x 0,8 | 1,2 | 17,8 | 524 | 307 | 10467600 |
| 40 x 2 x 0,8 | 1,4 | 19,5 | 666 | 407 | 10467700 |
| 50 x 2 x 0,8 | 1,4 | 21,4 | 810 | 508 | 10467800 |
| 60 x 2 x 0,8 | 1,4 | 23,2 | 975 | 608 | 10467900 |
| 80 x 2 x 0,8 | 1,8 | 31,5 | 1325 | 809 | 10468000 |
| 100 x 2 x 0,8 | 1,8 | 32,3 | 1600 | 1010 | 10468100 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg • Price upon quantity-specific request



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# J-H(St)H BMK ... Bd

## APPLICATION

This halogen-free, flame-resistant installation cable is used where increased fire protection of persons, material goods and buildings is required. It serves for information transmission in communication systems with fixed installation. Not applicable for power installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare; Ø 0,8 mm
**Core insulation**: halogen-free compound
**Core stranding**: cores by fours stranded to star-quads; quads to lay up
**Lapping**: plastic foil
**Screen**: drain wire; plastic-laminated aluminium foil
**Sheath**: halogen-free compound; colour: red RAL 3000

## BEHAVIOR UNDER FIRE CONDITIONS

Low flame propagation acc. to requirements specified in DIN EN 50266-2-4, VDE 0482 as well as IEC 60 332.3
No emission of corrosive gases
Low smoke development

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| (Conductor) loop resistance max. | 73,2 Ω/km |
| Insulation resistance min. | 100 MΩ x km |
| Mutual capacitance max. | 120 nF/km |
| up to 4 DA max. | 140 nF/km |
| Peak operating voltage | 300 V |
| Test voltage | 800 V 50 Hz 1 Min. |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | -5°C to +50°C |
| Temperature range stationary | -30°C to +70°C |
| Minimum bending radius | 7,5 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 2 x 2 x 0,8 | 1 | 6,5 | 69 | 25 | 10620100 |
| 4 x 2 x 0,8 | 1 | 8,5 | 112 | 45 | 10620200 |
| 6 x 2 x 0,8 | 1 | 9,0 | 141 | 65 | 10620300 |
| 10 x 2 x 0,8 | 1 | 10,7 | 204 | 106 | 10820400 |
| 20 x 2 x 0,8 | 1 | 15,7 | 370 | 206 | 10620500 |
| 30 x 2 x 0,8 | 1 | 17,8 | 524 | 307 | 10620600 |
| 40 x 2 x 0,8 | 1,2 | 19,5 | 666 | 407 | 10620700 |
| 50 x 2 x 0,8 | 1,2 | 21,4 | 810 | 508 | 10620800 |
| 60 x 2 x 0,8 | 1,2 | 22,5 | 975 | 608 | 10620900 |
| 80 x 2 x 0,8 | 1,5 | 30,8 | 1325 | 809 | 10621000 |
| 100 x 2 x 0,8 | 1,5 | 32,0 | 1600 | 1010 | 10621100 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg
Price upon quantity-specific request

# A-2Y(L)2Y ... St III Bd

**acc. to DIN VDE 0816**

## APPLICATION

As connecting and junction cable on local post level for industry and private branch exchange. Mainly for use in the low frequency range. Direct underground installation or laying in cable tubes or ducts. Transversely watertight. Not approved for power installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare, Ø 0,6/0,8 mm
**Core insulation**: PE
**Core stranding**: cores to star-quads, 5 quads to lay up, bundles to lay up, on 150 DA 5 bundles stranded to cable core
**Sheath**: multiple sheath consisting of PE-coated aluminium tape and PE sheath; colour: black RAL 9005

## ELECTRICAL CHARACTERISTICS

| | | |
|---|---|---|
| Loop resistance max. | Ø 0,6 mm | 130 Ω/km |
| Loop resistance max. | Ø 0,8 mm | 73,2 Ω/km |
| Insulation resistance min. | | 5 GΩ x km |
| Mutual capacitance (800 Hz) | Ø 0,6 mm | max. 52 nF/km |
| Mutual capacitance (800 Hz) | Ø 0,8 mm | max. 55 nF/km |
| Capacitance unbalance $C_1$ (800 Hz) | | max. 800 pF/300m |
| Capacitance unbalance $C_{9-12}$ (800 Hz) | | max. 300 pF/300m |
| Peak operating voltage | | 225 V |
| Test voltage core-core | | 500 V 50 Hz 2 Min. |
| Test voltage core-screen | | 2000 V 50 Hz 2 Min. |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | -20°C to +50°C |
| Temperature range stationary | max. +70°C |
| Minimum bending radius | 10 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 2 x 2 x 0,6 | 1,8 | 8,1 | 60 | 11,0 | 10357000 |
| 4 x 2 x 0,6 | 1,8 | 10,0 | 85 | 23,0 | 10357100 |
| 6 x 2 x 0,6 | 1,8 | 10,3 | 103 | 34,0 | 10357200 |
| 10 x 2 x 0,6 | 1,8 | 11,5 | 135 | 57,0 | 10357300 |
| 20 x 2 x 0,6 | 1,8 | 15,2 | 225 | 113,0 | 10357400 |
| 30 x 2 x 0,6 | 1,8 | 16,6 | 320 | 170,0 | 10357500 |
| 40 x 2 x 0,6 | 1,8 | 18,0 | 398 | 226,0 | 10357600 |
| 50 x 2 x 0,6 | 1,8 | 19,4 | 465 | 283,0 | 10357700 |
| 70 x 2 x 0,6 | 2,0 | 22,8 | 600 | 396,0 | 10357800 |
| 100 x 2 x 0,6 | 2,0 | 27,9 | 830 | 565,0 | 10357900 |
| 150 x 2 x 0,6 | 2,2 | 33,2 | 1220 | 848,0 | 10808100 |
| 200 x 2 x 0,6 | 2,2 | 36,4 | 1600 | 1131,0 | 10808200 |
| 250 x 2 x 0,6 | 2,2 | 40,0 | 1971 | 1414,0 | 10659000 |
| 300 x 2 x 0,6 | 2,6 | 44,4 | 2280 | 1696,0 | 10817800 |
| 350 x 2 x 0,6 | 2,6 | 45,3 | 2650 | 1979,0 | 10926100 |
| 400 x 2 x 0,6 | 3,0 | 57,5 | 3060 | 2262,0 | 10926200 |
| 500 x 2 x 0,6 | 3,0 | 60,6 | 3700 | 2827,0 | 10926300 |
| 2 x 2 x 0,8 | 1,8 | 8,6 | 74 | 20,0 | 10358000 |
| 4 x 2 x 0,8 | 1,8 | 10,9 | 115 | 40,0 | 10358100 |
| 6 x 2 x 0,8 | 1,8 | 11,3 | 140 | 60,0 | 10358200 |
| 10 x 2 x 0,8 | 1,8 | 13,2 | 195 | 101,0 | 10358300 |
| 20 x 2 x 0,8 | 1,8 | 17,3 | 335 | 201,0 | 10358400 |
| 30 x 2 x 0,8 | 1,8 | 19,0 | 475 | 302,0 | 10358500 |
| 40 x 2 x 0,8 | 2,0 | 20,7 | 595 | 402,0 | 10358600 |
| 50 x 2 x 0,8 | 2,0 | 23,7 | 730 | 503,0 | 10358700 |
| 70 x 2 x 0,8 | 2,0 | 25,3 | 970 | 704,0 | 10358800 |
| 100 x 2 x 0,8 | 2,2 | 32,2 | 1375 | 1005,0 | 10358900 |
| 150 x 2 x 0,8 | 2,2 | 37,7 | 2020 | 1508,0 | 10923400 |
| 200 x 2 x 0,8 | 2,6 | 42,3 | 2610 | 2011,0 | 10923200 |
| 250 x 2 x 0,8 | 2,6 | 47,4 | 3220 | 2514,0 | 10926400 |
| 300 x 2 x 0,8 | 2,6 | 52,0 | 3810 | 3016,0 | 10926500 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg • Price upon quantity-specific request



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# A-2YF(L)2Y ... St III Bd

**acc. to DIN VDE 0816**

## APPLICATION

As connecting and junction cable on local post level for industry and private branch exchange. Mainly for use in the low frequency range. Direct underground installation or laying in cable tubes or ducts. Longitudinally and transversely watertight. Not approved for power installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare, Ø 0,6/0,8 mm
**Core insulation**: PE
**Core stranding**: cores to star-quads, 5 quads to lay up, bundles to lay up, on 150 DA 5 bundles stranded to cable core; petroleum jelly filling
**Sheath**: multiple sheath consisting of PE-coated aluminium tape and PE sheath; colour: black RAL 9005

## ELECTRICAL CHARACTERISTICS

| | | |
|---|---|---|
| Loop resistance max. | Ø 0,6 mm | 130 Ω/km |
| Loop resistance max. | Ø 0,8 mm | 73,2 Ω/km |
| Insulation resistance min. | | 1,5 GΩ x km |
| Mutual capacitance (800 Hz) | Ø 0,6 mm | max. 52 nF/km |
| Mutual capacitance (800 Hz) | Ø 0,8 mm | max. 55 nF/km |
| Capacitance unbalance $C_1$ (800 Hz) | | max. 800 pF/300m |
| Capacitance unbalance $C_{9-12}$ (800 Hz) | | max. 300 pF/300m |
| Peak operating voltage | | 225 V |
| Test voltage core-core | | 500 V 50 Hz 2 Min. |
| Test voltage core-screen | | 2000 V 50 Hz 2 Min. |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | -20°C to +50°C |
| Temperature range stationary | max. +70°C |
| Minimum bending radius | 10 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 2x2x0,6 | 1,8 | 8,3 | 65 | 11,0 | 10972500 |
| 4x2x0,6 | 1,8 | 10,4 | 105 | 23,0 | 10972600 |
| 6x2x0,6 | 1,8 | 11,0 | 123 | 34,0 | 10972700 |
| 10x2x0,6 | 1,8 | 12,5 | 175 | 57,0 | 10972800 |
| 20x2x0,6 | 1,8 | 15,8 | 300 | 113,0 | 10972900 |
| 30x2x0,6 | 1,8 | 19,0 | 415 | 170,0 | 10973000 |
| 40x2x0,6 | 1,8 | 20,4 | 510 | 226,0 | 10973100 |
| 50x2x0,6 | 1,8 | 22,2 | 613 | 283,0 | 10973200 |
| 70x2x0,6 | 2,0 | 24,5 | 783 | 396,0 | 10973400 |
| 100x2x0,6 | 2,0 | 30,3 | 1230 | 565,0 | 10973700 |
| 150x2x0,6 | 2,2 | 38,0 | 1720 | 848,0 | 10808500 |
| 200x2x0,6 | 2,2 | 40,5 | 2150 | 1131,0 | 10808600 |
| 250x2x0,6 | 2,2 | 48,0 | 2510 | 1414,0 | 10817200 |
| 300x2x0,6 | 2,6 | 52,0 | 3250 | 1696,0 | 10817900 |
| 400x2x0,6 | 3,0 | 62,4 | 4450 | 2262,0 | 10926600 |
| 2x2x0,8 | 1,8 | 8,8 | 85 | 20,0 | 10974000 |
| 4x2x0,8 | 1,8 | 11,2 | 142 | 40,0 | 10974100 |
| 6x2x0,8 | 1,8 | 12,0 | 175 | 60,0 | 10974200 |
| 10x2x0,8 | 1,8 | 14,0 | 245 | 101,0 | 10974300 |
| 20x2x0,8 | 1,8 | 19,1 | 455 | 201,0 | 10974400 |
| 30x2x0,8 | 1,8 | 22,0 | 628 | 302,0 | 10974500 |
| 40x2x0,8 | 2,0 | 24,0 | 793 | 402,0 | 10974600 |
| 50x2x0,8 | 2,0 | 26,0 | 965 | 503,0 | 10974700 |
| 70x2x0,8 | 2,0 | 28,0 | 1280 | 704,0 | 10974900 |
| 100x2x0,8 | 2,2 | 36,0 | 1850 | 1005,0 | 10975200 |
| 150x2x0,8 | 2,2 | 42,2 | 2702 | 1508,0 | 10975700 |
| 200x2x0,8 | 2,6 | 47,4 | 3495 | 2011,0 | 10975600 |
| 250x2x0,8 | 2,6 | 52,2 | 4162 | 2514,0 | 10926700 |
| 300x2x0,8 | 3,0 | 58,0 | 5367 | 3016,0 | 10926800 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg • Price upon quantity-specific request

# A-02YSF(L)2Y ... St III Bd

**referring to DIN VDE 0816**

## APPLICATION

As connecting and junction cable on local post level for industry and private branch exchange. Mainly for use in the low frequency range. Direct underground installation or laying in cable tubes or ducts. Longitudinally and transversely watertight. Not approved for power installation.

## CONSTRUCTION

**Conductor**: copper, solid, bare, Ø 0,4/0,5/0,6/0,8 mm
**Core insulation**: Cellular PE (Foam-Skin)
**Core stranding**: cores to star-quads, 5 quads to lay up, bundles to lay up, on 150 DA 5 bundles stranded to cable core
**Sheath**: multiple sheath consisting of PE-coated aluminium tape and PE sheath; colour: black RAL 9005

## ELECTRICAL CHARACTERISTICS

| | | |
|---|---|---|
| Loop resistance max. | Ø 0,4 mm | 300 Ω/km |
| Loop resistance max. | Ø 0,5 mm | 192 Ω/km |
| Loop resistance max. | Ø 0,6 mm | 130 Ω/km |
| Loop resistance max. | Ø 0,8 mm | 73,2 Ω/km |
| Insulation resistance min. | | 1,5 GΩ x km |
| Mutual capacitance max. (800 Hz) | | 42 nF/km |
| Capacitance unbalance $C_1$ (800 Hz) | | max. 800 pF/300 m |
| Capacitance unbalance $C_{9-12}$ (800 Hz) | | max. 300 pF/300 m |
| Peak operating voltage | Ø 0,4 mm | 125 V |
| | Ø 0,5–0,8 mm | 225 V |
| Test voltage core-core | | 500 V 50 Hz 2 Min. |
| Test voltage core-screen | | 2000 V 50 Hz 2 Min. |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | -20°C to +50°C |
| Temperature range stationary | max. +70°C |
| Minimum bending radius | 10 x diameter |

| dimension | sheath thickness appr. mm | diameter appr. mm | cable weight ca. kg/km | copper index kg/km | article number |
|---|---|---|---|---|---|
| 6 x 2 x 0,4 | 1,8 | 10,0 | 90 | 15 | |
| 10 x 2 x 0,4 | 1,8 | 11,3 | 115 | 25 | 14401011 |
| 20 x 2 x 0,4 | 1,8 | 15,2 | 203 | 50 | |
| 30 x 2 x 0,4 | 1,8 | 16,6 | 250 | 75 | |
| 40 x 2 x 0,4 | 1,8 | 18,0 | 300 | 101 | |
| 50 x 2 x 0,4 | 1,8 | 19,6 | 358 | 126 | 14405011 |
| 70 x 2 x 0,4 | 1,8 | 21,2 | 434 | 176 | |
| 100 x 2 x 0,4 | 2,0 | 26,5 | 664 | 251 | |
| 150 x 2 x 0,4 | 2,0 | 32,2 | 978 | 377 | |
| 200 x 2 x 0,4 | 2,0 | 35,4 | 1202 | 503 | |
| 250 x 2 x 0,4 | 2,2 | 39,5 | 1487 | 628 | |
| 300 x 2 x 0,4 | 2,2 | 43,1 | 1777 | 754 | |
| 10 x 2 x 0,5 | 1,3 | 10,5 | 110 | 39 | |
| 20 x 2 x 0,5 | 1,3 | 13,9 | 167 | 79 | |
| 30 x 2 x 0,5 | 1,4 | 15,9 | 270 | 118 | 14503011 |
| 50 x 2 x 0,5 | 1,4 | 18,9 | 375 | 196 | |
| 100 x 2 x 0,5 | 1,5 | 26,5 | 750 | 393 | 14510011 |
| 150 x 2 x 0,5 | 1,5 | 31,4 | 1065 | 589 | |
| 200 x 2 x 0,5 | 1,5 | 34,6 | 1329 | 785 | |
| 300 x 2 x 0,5 | 1,5 | 42,0 | 1962 | 1179 | |
| 6 x 2 x 0,6 | 1,8 | 10,7 | 125 | 34 | 14600611 |
| 10 x 2 x 0,6 | 1,8 | 12,2 | 163 | 57 | 14601011 |
| 20 x 2 x 0,6 | 1,8 | 16,5 | 315 | 113 | 14602011 |
| 30 x 2 x 0,6 | 1,8 | 18,1 | 400 | 170 | 14603011 |
| 40 x 2 x 0,6 | 1,8 | 19,7 | 500 | 226 | 14604011 |
| 50 x 2 x 0,6 | 1,8 | 21,5 | 600 | 283 | 14605011 |
| 70 x 2 x 0,6 | 2,0 | 23,7 | 747 | 396 | 14607011 |
| 100 x 2 x 0,6 | 2,0 | 29,3 | 1188 | 565 | 14610011 |
| 150 x 2 x 0,6 | 2,2 | 36,2 | 1656 | 848 | 14615011 |
| 200 x 2 x 0,6 | 2,2 | 40,0 | 2155 | 1131 | 14620011 |
| 250 x 2 x 0,6 | 2,6 | 44,5 | 2480 | 1414 | 14625011 |
| 300 x 2 x 0,6 | 2,6 | 48,8 | 3053 | 1696 | 14630011 |
| 6 x 2 x 0,8 | 1,8 | 11,1 | 170 | 60 | 14800611 |
| 10 x 2 x 0,8 | 1,8 | 13,0 | 248 | 101 | 14801011 |
| 20 x 2 x 0,8 | 1,8 | 17,7 | 475 | 201 | 14802011 |
| 30 x 2 x 0,8 | 1,8 | 20,0 | 634 | 302 | 14803011 |
| 40 x 2 x 0,8 | 1,8 | 21,4 | 800 | 402 | 14804011 |
| 50 x 2 x 0,8 | 2,0 | 23,8 | 967 | 503 | 14805011 |
| 70 x 2 x 0,8 | 2,0 | 25,8 | 1215 | 704 | 14807011 |
| 100 x 2 x 0,8 | 2,2 | 34,1 | 1780 | 1005 | 14810011 |
| 150 x 2 x 0,8 | 2,2 | 41,5 | 2700 | 1508 | 14815011 |
| 200 x 2 x 0,8 | 2,6 | 46,6 | 3239 | 2011 | 14820011 |

We reserve changes which serve technical progress • Copper base 100,00 € / 100,00 kg • Price upon quantity-specific request



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