# H07V-U

Installation cord 450/750 V


## CONSTRUCTION

1 **Conductor:** Cu – class 1
2 **Insulation:** PVC

## SPECIFICATION

| Type | Standard |
|---|---|
| H07V-U | HD 21.3 S3, IEC 227-5, VDE 0281-3 |
| P | JUS N.C3.200 |

| | | |
|---|---|---|
| | Nominal voltage | 450/750 V |
| | Test voltage | 2500 V |
| | Minimum temperature during installation | +5 °C |
| | Operating temperature | -40 °C – +70 °C |
| | Maximum operating temperature | +70 °C |
| | Short circuit temperature | +160 °C/5s |
| | Colour of insulation | HD 308. S2 |
| | Flame-retardant test | EN 50265-2-1 IEC 60332-1 |
| | Minimum bending radius | 4 x Ø cable |

## APPLICATION

Type H07V-U is intended for use in dry locations where flexibility is required, e.g. installation in toolrooms, buildings, walls or conduits.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Colours | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|---|
| mm² | | Ω/km | mm | kg/km | kg/km | m/No |
| 1,5 | | 12,10 | 2,8 | 14,4 | 20 | 100/coil |
| 2,5 | | 7,41 | 3,4 | 24 | 31 | 100/coil |
| 4 | | 4,61 | 3,9 | 38,4 | 46 | 100/coil |
| 6 | | 3,08 | 4,3 | 57,6 | 66 | 100/coil |
| 10 | | 1,83 | 5,5 | 96 | 111 | 100/coil |

# H07V-R

Installation cord 450/750 V


## CONSTRUCTION

1 **Conductor:** Cu – class 1
2 **Insulation:** PVC

## SPECIFICATION

| Type | Standard |
|---|---|
| H07V-R | HD 21.3 S3, IEC 227-5, VDE 0281-3 |
| P | JUS N.C3.200 |

| | | |
|---|---|---|
| | Nominal voltage | 450/750 V |
| | Test voltage | 2500 V |
| | Minimum temperature during installation | +5 °C |
| | Operating temperature | -40 °C – +70 °C |
| | Maximum operating temperature | +70 °C |
| | Short circuit temperature | +160 °C/5s |
| | Colour of insulation | HD 308. S2 |
| | Flame-retardant test | EN 50265-2-1 IEC 60332-1 |
| | Minimum bending radius | 4 x Ø cable |

## APPLICATION

Type H07V-R is intended for use in dry locations where flexibility is required, e.g. installation in toolrooms, buildings, walls or conduits.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Colours | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|---|
| $mm^2$ | | Ω/km | mm | kg/km | kg/km | m/No |
| 10 | ● ▨ ● ● | 1,830 | 6,1 | 96 | 117 | 100/coil |
| 16 | ● ▨ ● ● | 1,150 | 7,1 | 153,6 | 176 | 100/coil |
| 25 | ● ▨ ● ● | 0,727 | 8,9 | 240 | 276 | 500/6 |
| 35 | ● ▨ ● ● | 0,524 | 10,0 | 336 | 371 | 500/6 |
| 50 | ● ▨ ● | 0,387 | 11,7 | 480 | 505 | 500/7 |
| 70 | ● ▨ ● | 0,268 | 13,6 | 672 | 710 | 500/7 |
| 95 | ● ▨ ● | 0,193 | 15,9 | 912 | 979 | 500/9 |
| 120 | ● ▨ | 0,153 | 17,4 | 1152 | 1223 | 500/9 |
| 150 | ● ▨ | 0,124 | 19,4 | 1440 | 1504 | 500/10 |
| 185 | ● ▨ | 0,099 | 21,7 | 1776 | 1883 | 500/10 |
| 240 | ● ▨ | 0,075 | 24,7 | 2304 | 2466 | 500/12 |

# H05V-K

Installation cord 300/500 V


## CONSTRUCTION

1 **Conductor:** Cu – class 5 (fine stranded)
2 **Insulation:** PVC
PVC insulation 70 °C (P/F)
PVC insulation 105 °C (P/FT)

## SPECIFICATION

| Type | Standard |
|---|---|
| H05V-K | HD 21.3 S3, IEC 227-5, VDE 0281-3 |
| P/F, P/FT | JUS N.C3.202 |

| | | |
|---|---|---|
| | Nominal voltage | 300/500 V |
| | Test voltage | 2000 V |
| | Minimum temperature during installation | +5 °C |
| | Operating temperature | -40 °C – +70 °C |
| | Maximum operating temperature | +70 °C |
| | Short circuit temperature | +160 °C/5s |
| | Colour of insulation | HD 308. S2 |
| | Flame-retardant test | EN 50265-2-1 IEC 60332-1 |
| | Minimum bending radius | 4 x Ø cable |

## APPLICATION

Type H05V-K is intended for use in dry locations where flexibility is required, e.g. installation in toolrooms, buildings, walls or conduits.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Colours | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|---|
| $mm^2$ | | Ω/km | mm | kg/km | kg/km | m/No |
| 0,5 | | 39,00 | 2,1 | 5 | 9 | 100/coil |
| 0,75 | | 26,00 | 2,4 | 7,5 | 12 | 100/coil |
| 1 | | 19,5 | 2,5 | 10 | 15 | 100/coil |

# H07V-K

Installation cord 450/750 V


## CONSTRUCTION

1 **Conductor:** Cu – class 5 (fine stranded)
2 **Insulation:** PVC
PVC insulation 70 °C (P/F)
PVC insulation 105 °C (P/FT)

## SPECIFICATION

| Type | Standard |
|---|---|
| H07V-K | HD 21.3 S3, IEC 227-5, VDE 0281-3 |
| P/F, P/FT | JUS N.C3.202 |

| | |
|---|---|
| Nominal voltage | 450/750 V |
| Test voltage | 2500 V |
| Minimum temperature during installation | +5 °C |
| Operating temperature | -40 °C – +70 °C |
| Maximum operating temperature | +70 °C |
| Short circuit temperature | +160 °C/5s |
| Colour of insulation | HD 308. S2 |
| Flame-retardant test | EN 50265-2-1 EN IEC 60332-1 |
| Minimum bending radius | 4 x Ø cable |

## APPLICATION

Type H07V-K is intended for use in dry locations where flexibility is required, e.g. installation in toolrooms, buildings, walls or conduits.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Colours | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|---|
| $mm^2$ | | Ω/km | mm | kg/km | kg/km | m/No |
| 1,5 | | 13,3 | 3,0 | 14,4 | 21 | 100/coil |
| 2,5 | | 7,980 | 3,7 | 24 | 33 | 100/coil |
| 4 | | 4,950 | 4,2 | 38,4 | 49 | 100/coil |
| 6 | | 3,300 | 5,3 | 57,6 | 73 | 100/coil |
| 10 | | 1,910 | 6,9 | 96 | 128 | 100/coil |
| 16 | | 1,210 | 8,0 | 153,6 | 183 | 100/coil |
| 25 | | 0,780 | 10,1 | 240 | 283 | 500/6 |
| 35 | | 0,554 | 11,2 | 336 | 387 | 500/7 |
| 50 | | 0,386 | 13,4 | 480 | 550 | 500/7 |
| 70 | | 0,272 | 15,6 | 672 | 771 | 500/9 |
| 95 | | 0,206 | 17,8 | 912 | 1024 | 500/9 |
| 120 | | 0,161 | 20,4 | 1152 | 1282 | 500/10 |
| 150 | | 0,129 | 22,4 | 1440 | 1577 | 500/12 |
| 185 | | 0,106 | 24,4 | 1776 | 1964 | 500/12 |
| 240 | | 0,080 | 28,3 | 2304 | 2527 | 500/12 |

# H03VH-H
Installation cord 300/300 V


## CONSTRUCTION

1 **Conductor:** Cu – class 6 (fine stranded)
2 **Insulation:** PVC

## SPECIFICATION

| Type | Standard |
|---|---|
| H03VH-H | HD 21.5 S3, IEC 227-5, VDE 0281-5 |
| P/L | JUS N.C3.300 |

| | |
|---|---|
| Nominal voltage | 300/300 V |
| Test voltage | 2000 V |
| Minimum temperature during installation | +5 °C |
| Operating temperature | +5 °C – +50 °C |
| Maximum operating temperature | +60 °C |
| Short circuit temperature | +150 °C/5s |
| Colour of insulation | HD 308. S2 |
| Flame-retardant test | EN 50265-2-1 EN IEC 60332-1 |
| Minimum bending radius | 3 x Ø cable |
| Coat colour | White |

## APPLICATION

Type HO3VH-H cord is intended for use with small portable devices like lamps, radio receivers, fans etc.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 0,5 | 39,00 | 2,6 x 5,2 | 10 | 22,3 | 100/coil |
| 2 x 0,75 | 26,00 | 2,8 x 5,6 | 15 | 28,8 | 100/coil |

# H03VV-F

Installation cord 300/300 V


## CONSTRUCTION

1. **Conductor:** Cu – class 5 (fine stranded)
2. **Insulation:** PVC
3. **Jacket:** PVC

## SPECIFICATION

| Type | Standard |
|---|---|
| H03VV-F | HD 21.5 S3, IEC 227-5, VDE 0281-5 |
| PP/L | JUS N.C3.301 |

| | | |
|---|---|---|
| | Nominal voltage | 300/300 V |
| | Test voltage | 2000 V |
| | Minimum temperature during installation | +5 °C |
| | Operating temperature | +5 °C – +50 °C |
| | Maximum operating temperature | +60 °C |
| | Short circuit temperature | +150 °C/5s |
| | Colour of insulation | HD 308. S2 |
| | Flame-retardant test | EN 50265-2-1 EN IEC 60332-1 |
| | Minimum bending radius | 3 x Ø cable |
| | Coat colour | White |

## APPLICATION

Type HO3VV-F cord is intended for use in dry locations for small portable devices and in light duty requirements. It can not be used for kitchens, heating devices, industrial or agricultural application, and outdoors.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 0,5 | 39,00 | 5,1 | 10 | 36 | 100/coil |
| 2 x 0,75 | 26,00 | 5,6 | 15 | 46 | 100/coil |
| 3 x 0,5 | 39,00 | 5,4 | 15 | 44 | 100/coil |
| 3 x 0,75 | 26,00 | 5,9 | 21,6 | 56 | 100/coil |
| 4 x 0,5 | 39,00 | 5,9 | 20 | 53 | 100/coil |
| 4 x 0,75 | 26,00 | 6,5 | 29 | 68 | 100/coil |
| 5 x 0,5 | 39,00 | 6,6 | 24 | 65 | 100/coil |
| 5 x 0,75 | 26,00 | 7,1 | 36 | 83 | 100/coil |

# H05VV-F

Installation cord 300/500 V


## CONSTRUCTION

1. **Conductor:** Cu – class 5 (fine stranded)
2. **Insulation:** PVC
3. **Jacket:** PVC

## SPECIFICATION

| Type | Standard |
|---|---|
| H05VV-F | HD 21,5 S3, IEC 227-5, VDE 0281-5 |
| PP/J | JUS N.C3.302 |

| | |
|---|---|
| Nominal voltage | 300/500 V |
| Test voltage | 2000 V |
| Minimum temperature during installation | +5 °C |
| Operating temperature | +5 °C – +50 °C |
| Maximum operating temperature | +60 °C |
| Short circuit temperature | +150 °C/5s |
| Colour of insulation | HD 308. S2 |
| Flame-retardant test | EN 50265-2-1 EN IEC 60332-1 |
| Minimum bending radius | 3 x Ø cable |
| Coat colour | White, black |

## APPLICATION

Type H05VV-F cord is intended for use in dry locations for small portable devices and in light duty requirements. It can not be used for kitchens, heating devices, industrial or agricultural application, and outdoors.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 0,75 | 26,00 | 6,4 | 15 | 57 | 100/coil |
| 2 x 1,0 | 19,50 | 6,8 | 19 | 67 | 100/coil |
| 2 x 1,5 | 13,30 | 7,5 | 29 | 86 | 100/coil |
| 2 x 2,5 | 7,98 | 9,4 | 48 | 135 | 100/coil |
| 3 x 0,75 | 26,00 | 6,8 | 21,6 | 68 | 100/coil |
| 3 x 1,0 | 19,50 | 7,1 | 29 | 78 | 100/coil |
| 3 x 1,5 | 13,30 | 8,3 | 43,2 | 109 | 100/coil |
| 3 x 2,5 | 7,98 | 10,7 | 72 | 170 | 100/coil |
| 4 x 0,75 | 26,00 | 7,4 | 29 | 82 | 100/coil |
| 4 x 1,0 | 19,50 | 7,9 | 39 | 98 | 100/coil |
| 4 x 1,5 | 13,30 | 9,2 | 58 | 137 | 100/coil |
| 4 x 2,5 | 7,98 | 11,1 | 96 | 208 | 100/coil |
| 5 x 0,75 | 26,00 | 8,3 | 36 | 103 | 100/coil |
| 5 x 1,0 | 19,50 | 8,7 | 48 | 119 | 100/coil |

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 5 x 1,5 | 13,30 | 10,3 | 72 | 171 | 100/coil |
| 5 x 2,5 | 7,98 | 12,4 | 120 | 258 | 100/coil |
| 7 x 1,5 | 13,30 | 11,4 | 101 | 221 | 100/coil |
| 7 x 2,5 | 7,98 | 13,5 | 168 | 328 | 100/coil |

# NYIFY

Installation cord 230/400 V


## CONSTRUCTION

1. **Conductor:** Cu – class 1
2. **Insulation:** PVC
3. **Jacket:** PVC

## SPECIFICATION

| Type | Standard |
|---|---|
| NYIFY | VDE 0250 |
| PP/R | JUS N.C3.230 |

| | |
|---|---|
| Nominal voltage | 230/400 V |
| Test voltage | 2000 V |
| Minimum temperature during installation | +5 °C |
| Operating temperature | -40 °C – +70 °C |
| Maximum operating temperature | +70 °C |
| Short circuit temperature | +160 °C/5s |
| Colour of insulation | HD 308. S2 |
| Flame-retardant test | EN 50265-2-1 IEC 60332-1 |
| Minimum bending radius | 4 x Ø cable |
| Coat colour | Black |

## APPLICATION

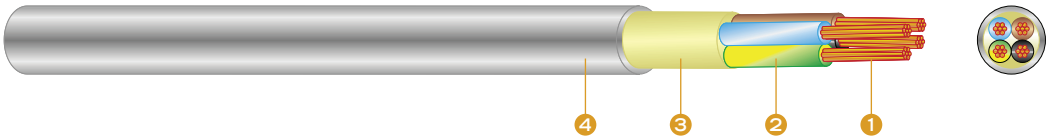
Type NYIFY cable is intended for use in dry environment and permanent laying on/in walls.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 1,5 | 12,10 | 4,35 x 11,80 | 29 | 65 | 100/coil |
| 2 x 2,5 | 7,41 | 5,20 x 13,50 | 48 | 94 | 100/coil |
| 3 x 1,5 | 12,10 | 4,35 x 19,30 | 43 | 107 | 100/coil |
| 3 x 2,5 | 7,41 | 5,20 x 22,30 | 72 | 153 | 100/coil |

# NYM

Installation cord 300/500 V




## CONSTRUCTION

1. **Conductor:** Cu – class 1 and 2
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** PVC

## SPECIFICATION

| Type | Standard |
|---|---|
| NYM | VDE 0250 Teil 204 |
| PP | JUS N.C3.220 |

| | |
|---|---|
| Nominal voltage | 300/500 V |
| Test voltage | 2000 V |
| Minimum temperature during installation | +5 °C |
| Operating temperature | -40 °C – +70 °C |
| Maximum operating temperature | +70 °C |
| Short circuit temperature | +160 °C/5s |
| Colour of insulation | HD 308. S2 |
| Flame-retardant test | EN 50265-2-1 IEC 60332-1 |
| Minimum bending radius | 4 x Ø cable |
| Coat colour | Gray |

## APPLICATION

Type NYM cable is intended for permanent installation, both industrial and house installation, in dry and wet conditions, for laying over or under concrete without special mechanical protection.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| mm² | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 1,5 | 12,10 | 8,5 | 29 | 103 | 100/coil |
| 2 x 2,5 | 7,41 | 9,8 | 48 | 134 | 100/coil |
| 2 x 4 | 4,61 | 11,4 | 77 | 206 | 100/coil |
| 2 x 6 | 3,08 | 12,9 | 115 | 280 | 100/coil |
| 2 x 10 | 1,83 | 15,6 | 190 | 467 | 100/coil |
| 3 x 1,5 | 12,10 | 8,9 | 43 | 123 | 100/coil |
| 3 x 2,5 | 7,41 | 10,4 | 72 | 176 | 100/coil |
| 3 x 4 | 4,61 | 12,0 | 115 | 248 | 100/coil |
| 3 x 6 | 3,08 | 14,8 | 173 | 342 | 100/coil |
| 3 x 10 | 1,83 | 17,7 | 288 | 585 | 100/coil |
| 3 x 10 | 1,83 | 17,7 | 288 | 630 | 500/8 |
| 3 x 16 | 1,15 | 19,2 | 461 | 790 | 500/10 |
| 3 x 25 | 0,727 | 23,4 | 720 | 1120 | 500/12 |

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 3 x 35 | 0,524 | 26,2 | 1008 | 1590 | 500/12 |
| 4 x 1,5 | 12,10 | 9,6 | 58 | 144 | 100/coil |
| 4 x 2,5 | 7,41 | 11,3 | 96 | 212 | 100/coil |
| 4 x 4 | 4,61 | 13,0 | 154 | 302 | 100/coil |
| 4 x 6 | 3,08 | 14,9 | 230 | 416 | 100/coil |
| 4 x 10 | 1,83 | 19,4 | 384 | 715 | 100/coil |
| 4 x 10 | 1,83 | 19,4 | 384 | 760 | 500/8 |
| 4 x 16 | 1,15 | 21,9 | 614 | 987 | 500/10 |
| 4 x 25 | 0,727 | 26,9 | 960 | 1538 | 500/12 |
| 4 x 35 | 0,524 | 30,1 | 1344 | 2030 | 500/12 |
| 5 x 1,5 | 12,10 | 10,5 | 72 | 173 | 100/coil |
| 5 x 2,5 | 7,41 | 12,3 | 120 | 256 | 100/coil |
| 5 x 4 | 4,61 | 14,2 | 192 | 363 | 100/coil |
| 5 x 6 | 3,08 | 16,2 | 288 | 506 | 100/coil |
| 5 x 10 | 1,83 | 21,2 | 480 | 874 | 500/10 |
| 5 x 10 | 1,83 | 21,2 | 480 | 915 | 500/10 |
| 5 x 16 | 1,15 | 24,0 | 768 | 1213 | 500/12 |
| 5 x 25 | 0,727 | 29,6 | 1200 | 1895 | 500/12 |
| 5 x 35 | 0,524 | 33,2 | 1680 | 2508 | 500/14 |
| 7 x 1,5 | 12,10 | 11,6 | 101 | 208 | 100/coil |
| 7 x 2,5 | 7,41 | 13,1 | 168 | 325 | 100/coil |

# H05VQ-F

PVC/PUR – Installation cord 300/500 V


## CONSTRUCTION

1. **Conductor:** Cu – class 5
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** TMPU

## SPECIFICATION

| Type | Standard |
|---|---|
| H05VQ-F | KAPIS TKT |
| Cu-PVC/PUR-Y | IEC |

| | | |
|---|---|---|
| | Nominal voltage | 300/500 V |
| | Test voltage | 2000 V |
| | Minimum temperature during installation | +5 °C |
| | Operating temperature | +5 °C – +50 °C |
| | Maximum operating temperature | +60 °C |
| | Short circuit temperature | +150 °C/5s |
| | Colour of insulation | HD 308. S2 |
| | Minimum bending radius | 3 x Ø cable |
| | Coat colour | Orange |

## APPLICATION

The cord is intended for power tools, machines, and electric motors in industrial environment, and has good mechanical, chemical and thermic properties.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 0,75 | 26,0 | 6,4 | 15 | 49 | 1000/6 |
| 2 x 1 | 19,5 | 7,0 | 19 | 57 | 1000/6 |
| 3 x 0,75 | 26,0 | 7,0 | 21,6 | 60 | 1000/6 |
| 3 x 1 | 19,5 | 7,4 | 29 | 71 | 1000/7 |
| 4 x 0,75 | 26,0 | 7,6 | 29 | 76 | 1000/7 |
| 4 x 1 | 19,5 | 8,1 | 39 | 92 | 1000/7 |
| 5 x 0,75 | 26,0 | 8,5 | 36 | 98 | 1000/7 |
| 5 x 1 | 19,5 | 9,0 | 48 | 116 | 1000/8 |

# H07BQ-F

EPR/PUR – Installation cord 450/750 V


## CONSTRUCTION

1. **Conductor:** Cu – class 5
2. **Insulation:** EPR type EI6
3. **Core:** EPDM
4. **Jacket:** TMPU

## SPECIFICATION

| Type | Standard |
|---|---|
| H07BQ-F | HD 22.10 S1 |
| Cu-EPR/PUR-Y | IEC |

| | |
|---|---|
| Nominal voltage | 450/750 V |
| Test voltage | 2500 V |
| Minimum temperature during installation | -40 °C |
| Operating temperature | -40 °C – +75 °C |
| Maximum operating temperature | +90 °C |
| Short circuit temperature | +200 °C/5s |
| Colour of insulation | HD 308. S2 |
| Minimum bending radius | 3 x Ø cable |
| Coat colour | Orange |

## APPLICATION

The cord is intended for power tools, machines, and electric motors in industrial environment, and has good mechanical, chemical and thermic properties.

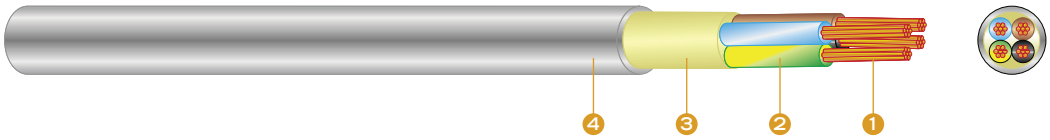
## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 1,5 | 13,3 | 9,8 | 29 | 110 | 1000/7 |
| 2 x 2,5 | 7,98 | 10,3 | 48 | 148 | 1000/8 |
| 2 x 4 | 4,95 | 11,2 | 77 | 204 | 1000/9 |
| 2 x 6 | 3,3 | 13,2 | 115 | 305 | 1000/10 |
| 2 x 10 | 1,91 | 16,9 | 190 | 486 | 1000/11 |
| 2 x 16 | 1,21 | 20,1 | 308 | 676 | 1000/12 |
| 3 x 1,5 | 13,3 | 10,4 | 43 | 154 | 1000/8 |
| 3 x 2,5 | 7,98 | 12,4 | 72 | 196 | 1000/9 |
| 3 x 4 | 4,95 | 13,8 | 115 | 248 | 1000/10 |
| 3 x 6 | 3,3 | 15,2 | 173 | 360 | 1000/10 |
| 3 x 10 | 1,91 | 18,5 | 288 | 536 | 1000/11 |
| 3 x 16 | 1,21 | 23,2 | 461 | 826 | 1000/12 |
| 4 x 1,5 | 13,3 | 11,6 | 58 | 180 | 1000/9 |
| 4 x 2,5 | 7,98 | 13,8 | 96 | 228 | 1000/10 |

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 4 x 4 | 4,95 | 16,2 | 154 | 308 | 1000/11 |
| 4 x 6 | 3,3 | 18,1 | 230 | 460 | 1000/11 |
| 4 x 10 | 1,91 | 22,1 | 384 | 704 | 1000/13 |
| 4 x 16 | 1,21 | 22,3 | 614 | 940 | 1000/13 |
| 5 x 1,5 | 13,3 | 12,7 | 72 | 204 | 1000/9 |
| 5 x 2,5 | 7,98 | 15,3 | 120 | 264 | 1000/10 |
| 5 x 4 | 4,95 | 17,9 | 192 | 378 | 1000/11 |
| 5 x 6 | 3,3 | 20,0 | 288 | 536 | 1000/12 |
| 5 x 10 | 1,91 | 25,9 | 480 | 860 | 1000/14 |
| 5 x 16 | 1,21 | 30,0 | 768 | 1030 | 1000/16 |

# NHMH

Installation conductor with special properties in case of fire 300/500 V




## CONSTRUCTION

1. **Conductor:** Cu – class 1 and 2
2. **Insulation:** Thermoplastic halogen-free polymer type 9YI2
3. **Core:** HFFR halogen-free polymer compound
4. **Jacket:** HFFR halogen-free polymer compound type HM5

## SPECIFICATION

| Type | Standard |
|---|---|
| NHMH | DIN VDE 0250-215 |

| | |
|---|---|
| Nominal voltage | 300/500 V |
| Test voltage | 2000 V |
| Minimum temperature during installation | -5 °C |
| Operating temperature | -40 °C – +70 °C |
| Maximum operating temperature | +70 °C |
| Short circuit temperature | +160 °C/5s |
| Colour of insulation | HD 308. S2 |
| Flame-retardant test | EN 50266-2-4 IEC 60332-3 |
| Minimum bending radius | 4 x Ø cable |
| Coat colour | Gray RAL 7035 |

## APPLICATION

Type NHMH replaces NYM (PP-Y) cables. The advantage of using this type of cables is its flame retardant properties, as well as its ability to prevent the development of poisonous and corrosive gases (HCl) in case of fire.

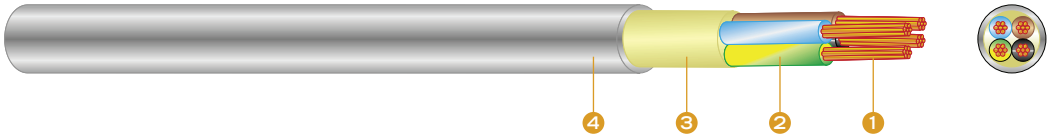
## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 1,5 | 12,1 | 7,9 | 29 | 89 | 100/coil |
| 2 x 2,5 | 7,41 | 8,7 | 48 | 120 | 100/coil |
| 2 x 4 | 4,61 | 10,1 | 77 | 172 | 100/coil |
| 2 x 6 | 3,08 | 11,5 | 115 | 236 | 100/coil |
| 2 x 10 | 1,83 | 14,8 | 190 | 402 | 100/coil |
| 3 x 1,5 | 12,1 | 8,2 | 43 | 105 | 100/coil |
| 3 x 2,5 | 7,41 | 9,1 | 72 | 143 | 100/coil |
| 3 x 4 | 4,61 | 10,6 | 115 | 209 | 100/coil |
| 3 x 6 | 3,08 | 12,1 | 173 | 291 | 100/coil |
| 3 x 10 | 1,83 | 15,4 | 288 | 488 | 100/coil |
| 4 x 1,5 | 12,1 | 8,9 | 58 | 123 | 100/coil |
| 4 x 2,5 | 7,41 | 9,8 | 96 | 172 | 100/coil |
| 4 x 4 | 4,61 | 11,9 | 154 | 262 | 100/coil |

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 4 x 6 | 3,08 | 12,5 | 230 | 370 | 100/coil |
| 4 x 10 | 1,83 | 17,0 | 384 | 602 | 100/coil |
| 4 x 16 | 1,15 | 20,1 | 614 | 961 | 500/10 |
| 4 x 25 | 0,72 | 25,0 | 960 | 1501 | 500/12 |
| 4 x 35 | 0,524 | 27,8 | 1344 | 1959 | 500/12 |
| 5 x 1,5 | 12,1 | 9,6 | 72 | 146 | 100/coil |
| 5 x 2,5 | 7,41 | 10,6 | 120 | 206 | 100/coil |
| 5 x 4 | 4,61 | 13,3 | 192 | 329 | 100/coil |
| 5 x 6 | 3,08 | 14,6 | 288 | 446 | 100/coil |
| 5 x 10 | 1,83 | 18,4 | 480 | 728 | 100/coil |
| 5 x 16 | 1,15 | 22,4 | 768 | 1121 | 500/10 |
| 5 x 25 | 0,727 | 27,4 | 1200 | 1739 | 500/12 |
| 5 x 35 | 0,524 | 30,9 | 1680 | 2330 | 500/14 |
| 7 x 1,5 | 13,3 | 10,5 | 101 | 194 | 100/coil |
| 7 x 2,5 | 7,98 | 12,3 | 168 | 258 | 100/coil |

# NHXMH

Installation conductor with special properties in case of fire 300/500 V




## CONSTRUCTION

1. **Conductor:** Cu – class 1 and 2
2. **Insulation:** Cross-linked PE, XLPE, type 2XI1
3. **Core:** HFFR halogen-free polymer compound
4. **Jacket:** HFFR halogen-free polymer compound type HM2

## SPECIFICATION

| Type | Standard |
|---|---|
| NHXMH-0 | DIN VDE 0250-214 |

| | |
|---|---|
| Nominal voltage | 300/500 V |
| Test voltage | 2000 V |
| Minimum temperature during installation | -5 °C |
| Operating temperature | -40 °C – +70 °C |
| Maximum operating temperature | +70 °C |
| Short circuit temperature | +160 °C/5s |
| Colour of insulation | HD 308. S2 |
| Flame-retardant test | EN 50266-2-4 IEC 60332-3 |
| Minimum bending radius | 4 x Ø cable |
| Coat colour | Gray |

## APPLICATION

Type NHXMH building wire can be installed under or over concrete, in wet or dry locations, cable channels, open air, but it is not intended for direct burial or under the water. It is recommended for public buildings (hotels, hospitals, department stores, subways, theatres, cinemas etc.), and in all other public buildings where good flame properties in case of fire are required to prevent developing poisonous gases and corrosive HCL gases.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 1,5 | 12,1 | 8,3 | 29 | 107 | 100/coil |
| 2 x 2,5 | 7,41 | 9,1 | 48 | 139 | 100/coil |
| 2 x 4 | 4,61 | 10,5 | 77 | 195 | 100/coil |
| 2 x 6 | 3,08 | 11,5 | 115 | 253 | 100/coil |
| 2 x 10 | 1,83 | 14,8 | 190 | 420 | 100/coil |
| 3 x 1,5 | 12,1 | 8,7 | 43 | 123 | 100/coil |
| 3 x 2,5 | 7,41 | 9,5 | 72 | 164 | 100/coil |
| 3 x 4 | 4,61 | 11,0 | 115 | 233 | 100/coil |
| 3 x 6 | 3,08 | 12,5 | 173 | 321 | 100/coil |
| 3 x 10 | 1,83 | 15,8 | 288 | 526 | 100/coil |
| 4 x 1,5 | 12,1 | 9,3 | 58 | 143 | 100/coil |
| 4 x 2,5 | 7,41 | 10,2 | 96 | 194 | 100/coil |

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 4 x 4 | 4,61 | 12,3 | 154 | 292 | 100/coil |
| 4 x 6 | 3,08 | 13,9 | 230 | 404 | 100/coil |
| 4 x 10 | 1,83 | 17,3 | 384 | 642 | 100/coil |
| 4 x 16 | 1,15 | 20,5 | 614 | 961 | 500/10 |
| 4 x 25 | 0,727 | 25,4 | 960 | 1501 | 500/12 |
| 4 x 35 | 0,524 | 28,2 | 1344 | 1959 | 500/12 |
| 5 x 1,5 | 12,1 | 10,0 | 72 | 167 | 100/coil |
| 5 x 2,5 | 7,41 | 11,0 | 120 | 230 | 100/coil |
| 5 x 4 | 4,61 | 13,7 | 192 | 360 | 100/coil |
| 5 x 6 | 3,08 | 15,0 | 288 | 482 | 100/coil |
| 5 x 10 | 1,83 | 18,8 | 480 | 774 | 100/coil |
| 5 x 16 | 1,15 | 22,8 | 768 | 1183 | 500/10 |
| 5 x 25 | 0,727 | 27,8 | 1200 | 1816 | 500/12 |
| 5 x 35 | 0,524 | 31,3 | 1680 | 2418 | 500/14 |
| 7 x 1,5 | 13,3 | 10,9 | 101 | 207 | 100/coil |
| 7 x 2,5 | 7,98 | 12,3 | 168 | 274 | 100/coil |

# H05RR-F

Installation cord 300/500 V


## CONSTRUCTION

1. **Conductor:** Cu – class 5
2. **Insulation:** EPR rubber type EI4
3. **Jacket:** EPR rubber type EM3

## SPECIFICATION

| Type | Standard |
|---|---|
| H05RR-F | HD 22.4 S3, VDE 0282/4 |

| | | |
|---|---|---|
| | Nominal voltage | 300/500 V |
| | Test voltage | 2000 V |
| | Minimum temperature during installation | -25 °C |
| | Operating temperature | -25 °C – +50 °C |
| | Maximum operating temperature | +60 °C |
| | Short circuit temperature | +200 °C/5s |
| | Colour of insulation | HD 308. S2 |
| | Minimum bending radius | 4 x Ø cable |
| | Coat colour | Black |

## APPLICATION

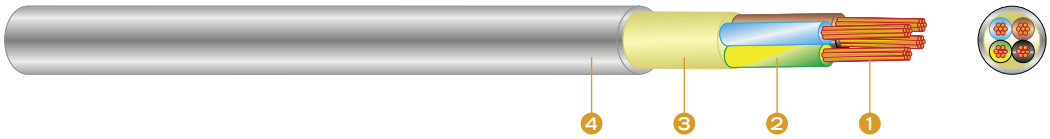
Type H05RR-F cord is intended for use with household appliances.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | mm | kg/km | m/No |
| 2 x 1,5 | 13,3 | 8,6 | 29 | 85 | 100/coil |
| 2 x 2,5 | 7,98 | 10,2 | 48 | 118 | 100/coil |
| 3 x 1,5 | 13,3 | 9,2 | 43 | 98 | 100/coil |
| 3 x 2,5 | 7,98 | 10,8 | 72 | 142 | 100/coil |
| 4 x 1,5 | 13,30 | 10,0 | 58 | 116 | 100/coil |
| 4 x 2,5 | 7,98 | 11,8 | 96 | 178 | 100/coil |
| 5 x 1,5 | 13,30 | 11,0 | 72 | 146 | 100/coil |
| 5 x 2,5 | 7,98 | 12,9 | 120 | 216 | 100/coil |

# YM

Installation cord 300/500 V




## CONSTRUCTION

1. **Conductor:** Cu – class 1 and 2
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** PVC

## SPECIFICATION

| Type | Standard |
|---|---|
| YM | ÖVE-K 41-4 (HD 21.4 S2) |
| PP | JUS N.C3.220 |

| | | |
|---|---|---|
| | Nominal voltage | 300/500 V |
| | Test voltage | 2000 V |
| | Minimum temperature during installation | +5 °C |
| | Operating temperature | -40 °C – +70 °C |
| | Maximum operating temperature | +70 °C |
| | Short circuit temperature | +160 °C/5s |
| | Colour of insulation | HD 308. S2 |
| | Flame-retardant test | EN 50265-2-1 IEC 60332-1 |
| | Minimum bending radius | 4 x Ø cable |
| | Coat colour | Gray |

## APPLICATION

Type YM cable is intended for permanent installation, both industrial and house installation, in dry or wet conditions, for laying over or under concrete without special mechanical protection.

## TECHNICAL DATA

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| mm² | Ω/km | mm | kg/km | kg/km | m/No |
| 2 x 1,5 | 12,10 | 8,3 | 29 | 98 | 100/coil |
| 2 x 2,5 | 7,41 | 9,6 | 48 | 125 | 100/coil |
| 2 x 4 | 4,61 | 11,1 | 77 | 198 | 100/coil |
| 2 x 6 | 3,08 | 12,5 | 115 | 268 | 100/coil |
| 2 x 10 | 1,83 | 16,2 | 190 | 456 | 100/coil |
| 3 x 1,5 | 12,10 | 8,5 | 43 | 117 | 100/coil |
| 3 x 2,5 | 7,41 | 10,1 | 72 | 165 | 100/coil |
| 3 x 4 | 4,61 | 11,7 | 115 | 237 | 100/coil |
| 3 x 6 | 3,08 | 14,4 | 173 | 332 | 100/coil |
| 3 x 10 | 1,83 | 17,3 | 288 | 619 | 500/8 |
| 3 x 16 | 1,15 | 19,0 | 460 | 776 | 500/10 |
| 3 x 25 | 0,727 | 23,1 | 720 | 1105 | 500/11 |
| 3 x 35 | 0,524 | 25,8 | 1008 | 1576 | 500/12 |

| No. of conductors and cross sectional area | Maximal resistance at 20 °C | Overall diameter (approx) | Copper weight | Net weight (approx) | Packing/Coil |
|---|---|---|---|---|---|
| $mm^2$ | Ω/km | mm | kg/km | kg/km | m/No |
| 4 x 1,5 | 12,10 | 9,4 | 58 | 134 | 100/coil |
| 4 x 2,5 | 7,41 | 11,0 | 96 | 204 | 100/coil |
| 4 x 4 | 4,61 | 12,7 | 154 | 294 | 100/coil |
| 4 x 6 | 3,08 | 14,6 | 230 | 405 | 100/coil |
| 4 x 10 | 1,83 | 19,1 | 384 | 756 | 500/8 |
| 4 x 16 | 1,15 | 21,7 | 614 | 972 | 500/10 |
| 4 x 25 | 0,727 | 26,4 | 960 | 1524 | 500/12 |
| 4 x 35 | 0,524 | 29,8 | 1344 | 2018 | 500/12 |
| 5 x 1,5 | 12,10 | 10,2 | 72 | 163 | 100/coil |
| 5 x 2,5 | 7,41 | 12,0 | 120 | 245 | 100/coil |
| 5 x 4 | 4,61 | 13,8 | 192 | 352 | 100/coil |
| 5 x 6 | 3,08 | 15,9 | 288 | 496 | 100/coil |
| 5 x 10 | 1,83 | 21,0 | 480 | 860 | 500/10 |
| 5 x 10 | 1,83 | 21,0 | 480 | 904 | 500/10 |
| 5 x 16 | 1,15 | 23,6 | 768 | 1201 | 500/12 |
| 5 x 25 | 0,727 | 29,2 | 1200 | 1881 | 500/12 |
| 5 x 35 | 0,524 | 32,8 | 1680 | 2498 | 500/14 |
| 7 x 1,5 | 12,10 | 11,4 | 101 | 197 | 100/coil |
| 7 x 2,5 | 7,41 | 12,8 | 168 | 314 | 100/coil |