



Application

- Due to its flexible construction, could be used in narrow spaces.
- At instrumentation and control engineering.
- At industrial electronics.
- As a measurement and control cable in machinery.
- In production and assembly lines.
- Wet, dry and moist places.
- For applications with medium level mechanical stress.
- In places where human life, valuable materials and equipments need to be protected.
- Fuel oil pumps.

Cable Construction

- 1 - Conductor : Stranded electrolytic annealed copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - Insulation : Halogen-free (DIN VDE 0207, EN 50363-3, TS EN 50290-2-26 T12), Black insulation, white number coded (DIN VDE 0293, TS EN 50334)
- 3 - Stranding : In layers
- 4 - Wrapping : Polyester tape
- 5 - Inner Jacket : UV resistant halogen-free inner jacket (TS EN 50290-2-27). RAL 7001 (Grey)
- 6 - Screen : Tinned copper braiding
- 7 - Outer Jacket : UV resistant halogen-free outer jacket (TS EN 50290-2-27). RAL 7001 (Grey)

Technical Characteristics

| Cross Section | Conductor Resistance Ω/km (20 °C) | Insulation Resistance MΩ/km | Current Carrying Capacity A | Test Voltage V (DC, 1 minute) | Operating Voltage V DC |
|----------------------|--------------------------------------|--------------------------------|--------------------------------|----------------------------------|---------------------------|
| 0.50 mm ² | 39.0 | 20 | 9 | 2000 | 300/500 |
| 0.75 mm ² | 26.0 | 20 | 12 | 2000 | 300/500 |
| 1.00 mm ² | 19.5 | 20 | 15 | 2000 | 300/500 |
| 1.5 mm ² | 13.3 | 20 | 18 | 2000 | 300/500 |
| 2.5 mm ² | 7.98 | 20 | 26 | 2000 | 300/500 |
| 4.0 mm ² | 4.95 | 20 | 34 | 2000 | 300/500 |
| 6.0 mm ² | 3.30 | 20 | 44 | 2000 | 300/500 |
| 10.0 mm ² | 1.91 | 20 | 61 | 2000 | 300/500 |
| 16.0 mm ² | 1.21 | 20 | 82 | 2000 | 300/500 |

Mechanical Characteristics

| Bending Radius | Temperature Range Operating |
|----------------|--------------------------------|
| 10xD mm | -30°C-+70°C |

Standards

| Smoke Density Test | Corrosive Gas Test | Halogen-free Test | Flame Retardancy Test |
|--|---|---|---|
| IEC 61034-2, VDE 0482-1034-2, EN 61034-2 | IEC 60754-2, VDE 0482-267-2-3, EN 50267-2-3 | IEC 60754-1, VDE 0482-267-2-1, EN 50267-2-1 | IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2 |

Notes

Electromagnetic compatibility (EMC)
 Color code could be JZ, OZ, JB, OB according to customer demand.
 For cables with two cores, Yellow/Green earthing wire is not included.
 Reference Standard: DIN EN 50525-2-51, VDE 0285-525-2-51

HSLHCH-JZ

| Part Number | Conductor Count | Conductor Cross-section (mm ²) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
|-------------------------|-----------------|--|-----------------------------|-----------------------|------------------------|---------------------|
| 3.605.3.3.3.0050.1.0002 | 2 | 0.5 | 6.7 | 25.2 | 69 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0003 | 3 | 0.5 | 7.0 | 30.3 | 78 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0004 | 4 | 0.5 | 7.4 | 36.5 | 89 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0005 | 5 | 0.5 | 7.9 | 43.8 | 104 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0006 | 6 | 0.5 | 8.4 | 49.9 | 117 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0007 | 7 | 0.5 | 8.4 | 54.3 | 120 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0008 | 8 | 0.5 | 9.2 | 66.0 | 142 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0009 | 9 | 0.5 | 10.5 | 67.8 | 163 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0010 | 10 | 0.5 | 10.5 | 72.2 | 166 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0012 | 12 | 0.5 | 10.9 | 81.3 | 184 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0014 | 14 | 0.5 | 11.3 | 94.1 | 204 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0016 | 16 | 0.5 | 12.0 | 105.3 | 230 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0018 | 18 | 0.5 | 12.6 | 117.0 | 270 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0020 | 20 | 0.5 | 13.2 | 134.1 | 281 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0024 | 24 | 0.5 | 14.5 | 156.9 | 326 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0025 | 25 | 0.5 | 14.5 | 161.3 | 338 | 100/500/1000 |
| 3.605.3.3.3.0050.0.0027 | 27 | 0.5 | 14.8 | 170.7 | 347 | 100/500/1000 |
| Part Number | Conductor Count | Conductor Cross-section (mm ²) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
| 3.605.3.3.3.0075.1.0002 | 2 | 0.75 | 7.1 | 31.0 | 79 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0003 | 3 | 0.75 | 7.4 | 38.6 | 91 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0004 | 4 | 0.75 | 7.9 | 48.2 | 106 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0005 | 5 | 0.75 | 8.4 | 56.5 | 121 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0006 | 6 | 0.75 | 9.2 | 70.5 | 149 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0007 | 7 | 0.75 | 9.2 | 77.1 | 154 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0008 | 8 | 0.75 | 9.9 | 79.3 | 166 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0009 | 9 | 0.75 | 11.5 | 92.1 | 203 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0010 | 10 | 0.75 | 11.5 | 98.7 | 208 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0012 | 12 | 0.75 | 11.9 | 113.9 | 232 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0014 | 14 | 0.75 | 12.4 | 127.8 | 255 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0016 | 16 | 0.75 | 13.1 | 149.0 | 290 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0018 | 18 | 0.75 | 13.7 | 165.8 | 339 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0020 | 20 | 0.75 | 14.5 | 183.2 | 353 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0024 | 24 | 0.75 | 15.8 | 212.6 | 403 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0025 | 25 | 0.75 | 15.8 | 219.2 | 419 | 100/500/1000 |
| 3.605.3.3.3.0075.0.0027 | 27 | 0.75 | 16.3 | 256.8 | 459 | 100/500/1000 |
| Part Number | Conductor Count | Conductor Cross-section (mm ²) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
| 3.605.3.3.3.0100.1.0002 | 2 | 1 | 7.5 | 35.5 | 89 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0003 | 3 | 1 | 7.8 | 46.5 | 104 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0004 | 4 | 1 | 8.4 | 56.5 | 121 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0005 | 5 | 1 | 9.2 | 72.1 | 150 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0006 | 6 | 1 | 9.9 | 76.0 | 166 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0007 | 7 | 1 | 9.9 | 84.2 | 172 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0008 | 8 | 1 | 10.6 | 94.4 | 194 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0009 | 9 | 1 | 12.4 | 109.7 | 236 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0010 | 10 | 1 | 12.4 | 118.0 | 242 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0012 | 12 | 1 | 12.8 | 137.2 | 273 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0014 | 14 | 1 | 13.4 | 161.9 | 307 | 100/500/1000 |

HSLHCH-JZ

| 3.605.3.3.3.0100.0.0016 | 16 | 1 | 14.2 | 182.7 | 347 | 100/500/1000 |
|-------------------------|-----------------|--|-----------------------------|-----------------------|------------------------|---------------------|
| 3.605.3.3.3.0100.0.0018 | 18 | 1 | 14.9 | 200.7 | 403 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0020 | 20 | 1 | 15.6 | 218.7 | 413 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0024 | 24 | 1 | 17.4 | 278.8 | 503 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0025 | 25 | 1 | 17.4 | 287.0 | 523 | 100/500/1000 |
| 3.605.3.3.3.0100.0.0027 | 27 | 1 | 17.8 | 304.2 | 539 | 100/500/1000 |
| Part Number | Conductor Count | Conductor Cross-section (mm ²) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
| 3.605.3.3.3.0150.1.0002 | 2 | 1.5 | 8.1 | 47.7 | 107 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0003 | 3 | 1.5 | 8.6 | 62.2 | 130 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0004 | 4 | 1.5 | 9.3 | 80.7 | 158 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0005 | 5 | 1.5 | 10.1 | 96.5 | 187 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0006 | 6 | 1.5 | 11.0 | 105.8 | 213 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0007 | 7 | 1.5 | 11.0 | 118.7 | 223 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0008 | 8 | 1.5 | 12.0 | 136.0 | 256 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0009 | 9 | 1.5 | 13.9 | 162.8 | 315 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0010 | 10 | 1.5 | 13.9 | 175.7 | 325 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0012 | 12 | 1.5 | 14.3 | 202.0 | 361 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0014 | 14 | 1.5 | 15.0 | 232.4 | 406 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0016 | 16 | 1.5 | 15.7 | 259.6 | 449 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0018 | 18 | 1.5 | 16.5 | 291.0 | 504 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0020 | 20 | 1.5 | 17.6 | 338.3 | 569 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0024 | 24 | 1.5 | 19.3 | 400.9 | 658 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0025 | 25 | 1.5 | 19.3 | 413.8 | 685 | 100/500/1000 |
| 3.605.3.3.3.0150.0.0027 | 27 | 1.5 | 19.9 | 441.1 | 719 | 100/500/1000 |
| Part Number | Conductor Count | Conductor Cross-section (mm ²) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
| 3.605.3.3.3.0250.1.0002 | 2 | 2.5 | 9.6 | 74.3 | 156 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0003 | 3 | 2.5 | 10.1 | 91.0 | 181 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0004 | 4 | 2.5 | 11.0 | 114.4 | 220 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0005 | 5 | 2.5 | 12.1 | 142.2 | 269 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0006 | 6 | 2.5 | 13.1 | 174.5 | 321 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0007 | 7 | 2.5 | 13.1 | 195.9 | 337 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0008 | 8 | 2.5 | 14.3 | 222.2 | 384 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0009 | 9 | 2.5 | 16.6 | 272.0 | 473 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0010 | 10 | 2.5 | 16.6 | 293.4 | 489 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0012 | 12 | 2.5 | 17.1 | 337.2 | 546 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0014 | 14 | 2.5 | 18.2 | 389.1 | 626 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0016 | 16 | 2.5 | 19.0 | 434.4 | 694 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0018 | 18 | 2.5 | 20.2 | 480.4 | 813 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0020 | 20 | 2.5 | 21.2 | 526.2 | 844 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0024 | 24 | 2.5 | 23.5 | 630.0 | 993 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0025 | 25 | 2.5 | 23.5 | 651.4 | 1036 | 100/500/1000 |
| 3.605.3.3.3.0250.0.0027 | 27 | 2.5 | 24.0 | 696.0 | 1076 | 100/500/1000 |

HSLHCH-JZ

| Part Number | Conductor Count | Conductor Cross-section (mm ²) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
|-----------------------|-----------------|--|-----------------------------|-----------------------|------------------------|---------------------|
| 3.605.3.3.3.0400.0002 | 2 | 4 | 10.8 | 97.0 | 196 | 100/500/1000 |
| 3.605.3.3.3.0400.0003 | 3 | 4 | 11.5 | 135.5 | 247 | 100/500/1000 |
| 3.605.3.3.3.0400.0004 | 4 | 4 | 12.4 | 172.7 | 299 | 100/500/1000 |
| 3.605.3.3.3.0400.0005 | 5 | 4 | 13.6 | 218.1 | 367 | 100/500/1000 |
| 3.605.3.3.3.0400.0006 | 6 | 4 | 14.9 | 257.9 | 437 | 100/500/1000 |
| 3.605.3.3.3.0400.0007 | 7 | 4 | 14.9 | 292.2 | 464 | 100/500/1000 |
| 3.605.3.3.3.0400.0008 | 8 | 4 | 16.2 | 347.6 | 540 | 100/500/1000 |
| 3.605.3.3.3.0400.0009 | 9 | 4 | 18.9 | 399.8 | 644 | 100/500/1000 |
| 3.605.3.3.3.0400.0010 | 10 | 4 | 18.9 | 434.1 | 670 | 100/500/1000 |
| 3.605.3.3.3.0400.0012 | 12 | 4 | 19.7 | 504.8 | 765 | 100/500/1000 |
| 3.605.3.3.3.0400.0014 | 14 | 4 | 20.7 | 585.3 | 869 | 100/500/1000 |
| 3.605.3.3.3.0400.0016 | 16 | 4 | 21.7 | 647.5 | 958 | 100/500/1000 |
| Part Number | Conductor Count | Conductor Cross-section (mm ²) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
| 3.605.3.3.3.0600.0002 | 2 | 6 | 12.7 | 140.8 | 275 | 100/500/1000 |
| 3.605.3.3.3.0600.0003 | 3 | 6 | 13.4 | 200.7 | 348 | 100/500/1000 |
| 3.605.3.3.3.0600.0004 | 4 | 6 | 14.7 | 257.4 | 428 | 100/500/1000 |
| 3.605.3.3.3.0600.0005 | 5 | 6 | 16.3 | 330.5 | 536 | 100/500/1000 |
| 3.605.3.3.3.0600.0006 | 6 | 6 | 17.7 | 389.9 | 632 | 100/500/1000 |
| 3.605.3.3.3.0600.0007 | 7 | 6 | 17.7 | 441.4 | 672 | 100/500/1000 |
| 3.605.3.3.3.0600.0008 | 8 | 6 | 19.2 | 503.3 | 762 | 100/500/1000 |
| 3.605.3.3.3.0600.0009 | 9 | 6 | 22.7 | 575.5 | 920 | 100/500/1000 |
| 3.605.3.3.3.0600.0010 | 10 | 6 | 22.7 | 626.9 | 960 | 100/500/1000 |
| 3.605.3.3.3.0600.0012 | 12 | 6 | 23.4 | 732.4 | 1087 | 100/500/1000 |
| 3.605.3.3.3.0600.0014 | 14 | 6 | 24.8 | 840.1 | 1239 | 100/500/1000 |
| 3.605.3.3.3.0600.0016 | 16 | 6 | 26.1 | 947.9 | 1386 | 100/500/1000 |
| Part Number | Conductor Count | Conductor Cross-section (mm ²) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
| 3.605.3.3.3.1000.0002 | 2 | 10 | 15.0 | 230.4 | 407 | 100/500/1000 |
| 3.605.3.3.3.1000.0003 | 3 | 10 | 15.9 | 321.2 | 514 | 100/500/1000 |
| 3.605.3.3.3.1000.0004 | 4 | 10 | 17.6 | 437.1 | 662 | 100/500/1000 |
| 3.605.3.3.3.1000.0005 | 5 | 10 | 19.3 | 537.1 | 804 | 100/500/1000 |
| 3.605.3.3.3.1000.0006 | 6 | 10 | 21.1 | 631.3 | 952 | 100/500/1000 |
| 3.605.3.3.3.1000.0007 | 7 | 10 | 21.1 | 720.3 | 1021 | 100/500/1000 |
| 3.605.3.3.3.1000.0008 | 8 | 10 | 23.1 | 825.9 | 1173 | 100/500/1000 |
| 3.605.3.3.3.1000.0009 | 9 | 10 | 27.3 | 930.7 | 1393 | 100/500/1000 |
| 3.605.3.3.3.1000.0010 | 10 | 10 | 27.3 | 1.019.7 | 1462 | 100/500/1000 |
| Part Number | Conductor Count | Conductor Cross-section (mm ²) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
| 3.605.3.3.3.1600.0002 | 2 | 16 | 19.3 | 372.7 | 656 | 100/500/1000 |
| 3.605.3.3.3.1600.0003 | 3 | 16 | 20.8 | 516.9 | 847 | 100/500/1000 |
| 3.605.3.3.3.1600.0004 | 4 | 16 | 22.9 | 674.0 | 1060 | 100/500/1000 |
| 3.605.3.3.3.1600.0005 | 5 | 16 | 25.3 | 823.0 | 1298 | 100/500/1000 |
| 3.605.3.3.3.1600.0006 | 6 | 16 | 27.7 | 972.5 | 1541 | 100/500/1000 |
| 3.605.3.3.3.1600.0007 | 7 | 16 | 27.7 | 1.112.7 | 1649 | 100/500/1000 |
| 3.605.3.3.3.1600.0008 | 8 | 16 | 30.1 | 1.261.9 | 1864 | 100/500/1000 |
| 3.605.3.3.3.1600.0009 | 9 | 16 | 35.4 | 1.423.5 | 2193 | 100/500/1000 |
| 3.605.3.3.3.1600.0010 | 10 | 16 | 35.4 | 1.563.8 | 2301 | 100/500/1000 |