

Flexible Cables

300/500V & 450/750V PVC or LSZH Insulated, Non-Sheathed Flexible Cable

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www.keystone-cable.com

Description: CU/PVC or CU/LSZH

Model Code: H05V2-K, H07V2-K / 07V2-K, H05Z-K, H07Z-K



| | |
|------------------------|--|
| Application : | This cable is used for the internal wiring of electric motors and transformers. This cable is suitable for laying in pipes, surface wiring and conduit installations. The LSZH version is generally used in public areas where smoke and toxic fumes may cause a threat to life and equipment. |
| Construction : | Bare or tinned copper conductor according to DIN VDE 0295 and IEC 60228 Class 5, E15 or T13 insulated |
| Insulation Colour : | Black, Light Blue, Brown, Grey, Red, White, Green/Yellow (other colour upon request) |
| Operating Temperature: | 90°C - H05V2-K & H07V2-K/07V2-K (HR-PVC-TI3) 90°C - H05Z-K & H07Z-K (Thermosetting LSZH-EI 5) |
| Specification : | BS EN 50525-2-31, BS EN 50525-3-41 |
| LSZH : | IEC60332-1-2, IEC60754, IEC61034-2 |
| Certification : | VDE, CE, RoHS |

H05Z-K & H05V2-K

| Part No. | | No. of Core | Conductor | | | Insulation | Approx. Overall Diam. | Approx. Weight | Current Rating at 30°C |
|----------|----------|-------------|---------------------|---------------|--------------------------------------|------------|-----------------------|----------------|------------------------|
| H05Z-K | H05V2-K | | Nominal Area | Approx. Diam. | Maximum Conductor Resistance at 20°C | Thickness | | | |
| | | | ^{0601xx34} | (mm) | (Ω/km) | (mm) | | | |
| 0401**50 | 0401**34 | Single-Core | 0.50 | 0.77 | 39.0 | 0.60 | 2.3 | 7 | 3 |
| 0501**50 | 0501**34 | | 0.75 | 0.95 | 26.0 | 0.60 | 2.4 | 10 | 6 |
| 0601**50 | 0601**34 | | 1.00 | 1.30 | 19.5 | 0.60 | 2.6 | 12 | 10 |

H07Z-K & H07V2-K / 07V2-K

| Part No. | | No. of Core | Conductor | | | Insulation | Approx. Overall Diam. | Approx. Weight | Current Rating at 30°C |
|----------|-------------------|-------------|---------------------|---------------|--------------------------------------|------------|-----------------------|----------------|------------------------|
| H07Z-K | H07V2-K 07V2-K | | Nominal Area | Approx. Diam. | Maximum Conductor Resistance at 20°C | Thickness | | | |
| | | | ^{0601xx34} | (mm) | (Ω/km) | (mm) | | | |
| 0701**50 | 0701**34 | Single-Core | 1.5 | 1.6 | 13.3 | 0.7 | 3.1 | 21 | 15.5 |
| 0801**50 | 0801**34 | | 2.5 | 2 | 7.98 | 0.8 | 3.8 | 33 | 21 |
| 0901**50 | 0901**34 | | 4 | 2.6 | 4.95 | 0.8 | 4.4 | 48 | 28 |
| 1001**50 | 1001**34 | | 6 | 3.4 | 3.30 | 0.8 | 4.9 | 66 | 36 |
| 1101**50 | 1101**34 | | 10 | 4.4 | 1.91 | 1.0 | 6.4 | 112 | 50 |
| 1201**50 | 1201**34 | | 16 | 5.7 | 1.21 | 1.0 | 7.4 | 167 | 68 |
| 1301**50 | 1301**34 | | 25 | 6.9 | 0.78 | 1.2 | 9.1 | 254 | 89 |
| 1401**50 | 1401**34 | | 35 | 8.1 | 0.554 | 1.2 | 10.4 | 340 | 110 |
| 1501**50 | 1501**34 | | 50 | 9.8 | 0.386 | 1.4 | 12.4 | 485 | 154 |
| 1601**50 | 1601**34 | | 70 | 11.6 | 0.272 | 1.4 | 13.6 | 674 | 171 |
| 1701**50 | 1701**34 | | 95 | 13.3 | 0.206 | 1.6 | 15.8 | 894 | 207 |
| 1801**50 | 1801**34 | | 120 | 15.1 | 0.161 | 1.6 | 17.4 | 1110 | 239 |
| 1901**50 | 1901**34 | | 150 | 16.8 | 0.129 | 1.8 | 19.8 | 1400 | 275 |
| 2001**50 | 2001**34 | | 185 | 18.8 | 0.106 | 2.0 | 21.6 | 1700 | 314 |
| 2101**50 | 2101**34 | | 240 | 21.4 | 0.0801 | 2.2 | 24.6 | 2230 | 369 |

**Stands for colour code: ■ Brown (01) ■ Black (02) ■ Grey (03) ■ Blue (04) ■ Green/Yellow (05)
For current rating and voltage drop please refer to Tables 10 & 11 (Page 49)

Current Rating and Voltage Drop

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Flexible Cables with PVC Insulation, or PVC Insulation & PVC Outersheath.

Table 10 : Technical Data Flexible Cord, Imperial Sizes (CU/PVC or CU/PVC/PVC Cables)

Conductor Operating Temperature :70°C

BS 2004

Ambient Temperature :30°C

| Conductor | | Current Rating | Voltage Drop per 100 feet | | Maximum Weight supportable by twin flexible cord |
|-----------------|--------------|---------------------------|---------------------------|--------------|--|
| Nominal Area | Construction | 1 or 3 phase a.c. or d.c. | d.c. or 1 phase a.c. | 3 phase a.c. | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| in ² | No. / in | Amp | V | V | lb |
| 0.0006 | 14 / 0.0076 | 3 | 8.9 | 7.7 | 3 |
| 0.0010 | 23 / 0.0076 | 6 | 11 | 9.4 | 5 |
| 0.0017 | 40 / 0.0076 | 13 | 14 | 12 | 10 |
| 0.0030 | 70 / 0.0076 | 18 | 12 | 10 | 10 |
| 0.0048 | 110 / 0.0076 | 24 | 9.6 | 8.3 | 10 |
| 0.0070 | 162 / 0.0076 | 31 | 8.4 | 7.3 | 10 |

Note : For rating factor of ambient temperature other than 30°C please refer to Table 25

Table 11 : Technical Data Flexible Cord, Metrics Sizes (CU/PVC or CU/PVC/PVC Cables)

Conductor Operating Temperature :70°C

BS 6500

Ambient Temperature :30°C

| Conductor | | Current Rating | Voltage Drop per 100 feet | | Maximum Weight supportable by twin flexible cord |
|-----------------|--------------|---------------------------|---------------------------|--------------|--|
| Nominal Area | Construction | 1 or 3 phase a.c. or d.c. | d.c. or 1 phase a.c. | 3 phase a.c. | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| mm ² | No. / mm | Amp | mV/A/m | mV/A/m | Kg |
| 0.50 | 16 / 0.2 | 3 | 83 | 72 | 2 |
| 0.75 | 24 / 0.2 | 6 | 56 | 48 | 3 |
| 1.00 | 32 / 0.2 | 10 | 43 | 37 | 5 |
| 1.25 | 40 / 0.2 | 13 | 35 | 29 | 5 |
| 1.50 | 30 / 0.25 | 16 | 31 | 26 | 5 |
| 2.50 | 50 / 0.25 | 25 | 18 | 16 | 5 |
| 4.00 | 56 / 0.30 | 32 | 11 | 10 | 5 |

Note : For rating factor of ambient temperature other than 30°C please refer to Table 25