

PVC insulated, PVC sheathed, extra flexible flat cable, up to 450/750 V



**Application:**

- Used mainly as trailing cable for crane and conveyer system, floor conveyer system, moving machine parts, lift and hoist installation and shelf control unit.
- Minimum bending radius: 10 times of thickness of cable.
- Resistant to oil

**Standard:**

- ISIRI (607)71f
- IEC (60227)71f
- BS EN 50214

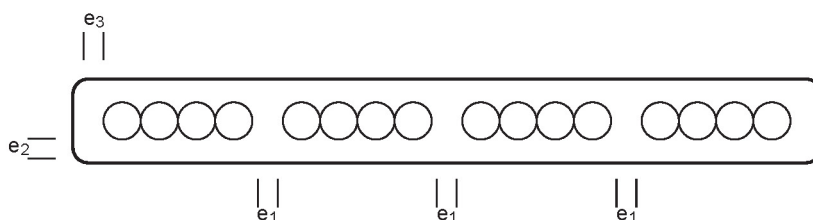
**Construction:**

- Annealed stranded copper conductor, class 5.
- PVC insulation, type D.
- Cores laid parallel.
- PVC sheath type, ST5.

**General specification:**

- Working temperature: Max. 70°C.
- Harmonized code designation:  
H05VVH6-F (300/500 V), H07VVH6-F (450/750 V).

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| Cross-sectional area<br>Nom. | No. of wires x<br>diameter<br>Nom. | Insulation<br>thickness | Thickness of sheath and<br>clearance |                |                | Overall<br>dimension | Weight<br>Approx. | Conductor<br>resistance at<br>20°C<br>Max. |
|------------------------------|------------------------------------|-------------------------|--------------------------------------|----------------|----------------|----------------------|-------------------|--|
|                              |                                    |                         | e <sub>1</sub>                       | e <sub>2</sub> | e <sub>3</sub> |                      |                   |  |
| mm <sup>2</sup>              | mm                                 | mm                      | mm                                   | mm             | mm             | kg/km                | Ω/km              |  |
| 3 x 0.75                     | 24 x 0.20                          | 0.6                     | -                                    | 0.9            | 1.5            | 10.3 x 4.2           | 83                | 26.0                                       |
| 4 x 0.75                     | 24 x 0.20                          | 0.6                     | -                                    | 0.9            | 1.5            | 13.4 x 4.2           | 111               | 26.0                                       |
| 5 x 0.75                     | 24 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 17.0 x 4.2           | 133               | 26.0                                       |
| 6 x 0.75                     | 24 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 18.3 x 4.2           | 150               | 26.0                                       |
| 9 x 0.75                     | 24 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 26.5 x 4.2           | 222               | 26.0                                       |
| 12 x 0.75                    | 24 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 33.8 x 4.2           | 282               | 26.0                                       |
| 16 x 0.75                    | 24 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 44.2 x 4.2           | 368               | 26.0                                       |
| 18 x 0.75                    | 24 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 49.0 x 4.2           | 415               | 26.0                                       |
| 20 x 0.75                    | 24 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 55.0 x 4.2           | 451               | 26.0                                       |
| 24 x 0.75                    | 24 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 65.6 x 4.2           | 540               | 26.0                                       |
| 3 x 1                        | 32 x 0.20                          | 0.6                     | -                                    | 0.9            | 1.5            | 10.5 x 4.4           | 91                | 19.5                                       |
| 4 x 1                        | 32 x 0.20                          | 0.6                     | -                                    | 0.9            | 1.5            | 14.0 x 4.4           | 124               | 19.5                                       |
| 5 x 1                        | 32 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 17.5 x 4.4           | 156               | 19.5                                       |
| 6 x 1                        | 32 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 19.0 x 4.4           | 168               | 19.5                                       |
| 9 x 1                        | 32 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 27.5 x 4.4           | 245               | 19.5                                       |
| 12 x 1                       | 32 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 35.0 x 4.4           | 325               | 19.5                                       |
| 16 x 1                       | 32 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 46.4 x 4.4           | 425               | 19.5                                       |
| 18 x 1                       | 32 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 50.8 x 4.4           | 470               | 19.5                                       |
| 20 x 1                       | 32 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 57.2 x 4.4           | 525               | 19.5                                       |
| 24 x 1                       | 32 x 0.20                          | 0.6                     | 1                                    | 0.9            | 1.5            | 68.4 x 4.4           | 605               | 19.5                                       |
| 3 x 1.5                      | 30 x 0.25                          | 0.7                     | -                                    | 1              | 1.5            | 12.0 x 5.1           | 122               | 13.3                                       |
| 4 x 1.5                      | 30 x 0.25                          | 0.7                     | -                                    | 1              | 1.5            | 14.8 x 5.1           | 149               | 13.3                                       |
| 5 x 1.5                      | 30 x 0.25                          | 0.7                     | 1                                    | 1              | 1.5            | 17.7 x 5.1           | 196               | 13.3                                       |
| 6 x 1.5                      | 30 x 0.25                          | 0.7                     | 1                                    | 1              | 1.5            | 21.8 x 5.1           | 225               | 13.3                                       |



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|------------------------------|------------------------------------|-------------------------|--------------------------------------|----------------|----------------|----------------------|-------------------|--|
|                              |                                    |                         | e <sub>1</sub>                       | e <sub>2</sub> | e <sub>3</sub> |                      |                   |  |
| mm <sup>2</sup>              | mm                                 | mm                      | mm                                   | mm             | mm             | mm                   | kg/km             | Ω/km                                       |
| 9 x 1.5                      | 30 x 0.25                          | 0.7                     | 1                                    | 1              | 1.5            | 32.2 x 5.1           | 316               | 13.3                                       |
| 12 x 1.5                     | 30 x 0.25                          | 0.7                     | 1                                    | 1              | 1.5            | 40.5 x 5.1           | 444               | 13.3                                       |
| 16 x 1.5                     | 30 x 0.25                          | 0.7                     | 1                                    | 1              | 1.5            | 54.3 x 5.1           | 560               | 13.3                                       |
| 18 x 1.5                     | 30 x 0.25                          | 0.7                     | 1                                    | 1              | 1.5            | 60.6 x 5.1           | 630               | 13.3                                       |
| 20 x 1.5                     | 30 x 0.25                          | 0.7                     | 1                                    | 1              | 1.5            | 67.2 x 5.1           | 695               | 13.3                                       |
| 3 x 2.5                      | 50 x 0.25                          | 0.8                     | -                                    | 1              | 1.8            | 14.4 x 5.8           | 171               | 7.98                                       |
| 4 x 2.5                      | 50 x 0.25                          | 0.8                     | -                                    | 1              | 1.8            | 18.0 x 5.8           | 222               | 7.98                                       |
| 5 x 2.5                      | 50 x 0.25                          | 0.8                     | 1.5                                  | 1              | 1.8            | 24.5 x 5.8           | 295               | 7.98                                       |
| 6 x 2.5                      | 50 x 0.25                          | 0.8                     | 1.5                                  | 1              | 1.8            | 26.7 x 5.8           | 325               | 7.98                                       |
| 9 x 2.5                      | 50 x 0.25                          | 0.8                     | 1.5                                  | 1              | 1.8            | 39.5 x 5.8           | 456               | 7.98                                       |
| 12 x 2.5                     | 50 x 0.25                          | 0.8                     | 1.5                                  | 1              | 1.8            | 49.5 x 5.8           | 625               | 7.98                                       |
| 16 x 2.5                     | 50 x 0.25                          | 0.8                     | 1.5                                  | 1              | 1.8            | 66.2 x 5.8           | 834               | 7.98                                       |
| 3 x 4                        | 56 x 0.30                          | 0.8                     | -                                    | 1.2            | 1.8            | 16.4 x 6.8           | 245               | 4.95                                       |
| 4 x 4                        | 56 x 0.30                          | 0.8                     | -                                    | 1.2            | 1.8            | 20.4 x 6.8           | 310               | 4.95                                       |
| 5 x 4                        | 56 x 0.30                          | 0.8                     | 1.5                                  | 1.2            | 1.8            | 26.6 x 6.8           | 405               | 4.95                                       |
| 3 x 6                        | 84 x 0.30                          | 0.8                     | -                                    | 1.2            | 1.8            | 18.2 x 7.6           | 322               | 3.30                                       |
| 4 x 6                        | 84 x 0.30                          | 0.8                     | -                                    | 1.2            | 1.8            | 22.4 x 7.6           | 416               | 3.30                                       |
| 5 x 6                        | 84 x 0.30                          | 0.8                     | 1.5                                  | 1.2            | 1.8            | 31.0 x 7.6           | 540               | 3.30                                       |
| 3 x 10                       | 80 x 0.40                          | 1.0                     | -                                    | 1.4            | 1.8            | 22.2 x 9.0           | 516               | 1.91                                       |
| 4 x 10                       | 80 x 0.40                          | 1.0                     | -                                    | 1.4            | 1.8            | 28.6 x 9.0           | 662               | 1.91                                       |
| 5 x 10                       | 80 x 0.40                          | 1.0                     | 1.5                                  | 1.4            | 1.8            | 37.5 x 9.0           | 760               | 1.91                                       |
| 3 x 16                       | 126 x 0.40                         | 1.0                     | -                                    | 1.5            | 2.0            | 25.4 x 10.6          | 718               | 1.21                                       |
| 4 x 16                       | 126 x 0.40                         | 1.0                     | -                                    | 1.5            | 2.0            | 33.8 x 10.6          | 952               | 1.21                                       |
| 5 x 16                       | 126 x 0.40                         | 1.0                     | 1.5                                  | 1.5            | 2.0            | 42.8 x 10.6          | 1265              | 1.21                                       |
| 3 x 25                       | 196 x 0.40                         | 1.2                     | -                                    | 1.6            | 2.0            | 33.6 x 12.9          | 1125              | 0.780                                      |
| 4 x 25                       | 196 x 0.40                         | 1.2                     | -                                    | 1.6            | 2.0            | 42.0 x 12.9          | 1470              | 0.780                                      |
| 5 x 25                       | 196 x 0.40                         | 1.2                     | -                                    | 1.6            | 2.0            | 52.2 x 12.9          | 1880              | 0.780                                      |