

**PVC insulated, non-sheathed cable for internal wiring, single core and twisted twin cable, up to 450/750 V**



**Application:**

- In dry rooms, apparatus switch and distribution boards, for fixed installation in conduits, over and under plaster and on insulated supports over plaster. Direct laying in plaster is not permitted.
- Minimum bending radius: 5 times of maximum overall diameter.

**Standard:**

- ISIRI (607)02
- ISIRI (607)06
- IEC (60227)02
- IEC (60227)06
- BS 6004
- HD 21

**Construction:**

- Annealed copper conductor, class 5.
- PVC insulation, type C.

**General specification:**

- Working temperature: Max. 70°C.
- Harmonized code designation and rated voltage: H05V-K (300/500 V), H07V-K (450/750 V).

**PVC insulated, non-sheathed cable for internal wiring, single core and twisted twin cable, up to 450/750 V**

| Cross-sectional area Nom. | No. of wires x diameter Nom. | Insulation thickness | Overall diameter | Insulation resistance at 70°C Min. | Weight Approx. | Conductor resistance at 20°C Max. |
|---------------------------|------------------------------|----------------------|------------------|------------------------------------|----------------|-----------------------------------|
| mm <sup>2</sup>           | mm                           | mm                   | mm               | MΩ.km                              | kg/km          | Ω/km                              |
| 0.5                       | 16 x 0.20                    | 0.6                  | 2.2              | 0.013                              | 9              | 39                                |
| 0.75                      | 24 x 0.20                    | 0.6                  | 2.4              | 0.011                              | 12             | 26                                |
| 1                         | 32 x 0.20                    | 0.6                  | 2.6              | 0.010                              | 15             | 19.5                              |
| 1.5                       | 30 x 0.25                    | 0.7                  | 3.0              | 0.010                              | 21             | 13.3                              |
| 2.5                       | 50 x 0.25                    | 0.8                  | 3.6              | 0.009                              | 33             | 7.98                              |
| 4                         | 36 x 0.30                    | 0.8                  | 4.2              | 0.007                              | 48             | 4.95                              |
| 6                         | 84 x 0.30                    | 0.8                  | 4.8              | 0.006                              | 68             | 3.30                              |
| 10                        | 80 x 0.40                    | 1.0                  | 6.1              | 0.0056                             | 114            | 1.91                              |
| 16                        | 126 x 0.40                   | 1.0                  | 7.1              | 0.0046                             | 173            | 1.21                              |
| 25                        | 196 x 0.40                   | 1.2                  | 9.3              | 0.0044                             | 272            | 0.780                             |
| 35                        | 278 x 0.40                   | 1.2                  | 10.7             | 0.0038                             | 365            | 0.554                             |
| 50                        | 398 x 0.40                   | 1.4                  | 12.6             | 0.0037                             | 520            | 0.386                             |
| 70                        | 357 x 0.50                   | 1.4                  | 14.4             | 0,0032                             | 720            | 0.272                             |
| 95                        | 484 x 0.50                   | 1.6                  | 16.4             | 0,0032                             | 965            | 0.206                             |
| 120                       | 612 x 0.50                   | 1.6                  | 18.2             | 0,0029                             | 1210           | 0.161                             |
| 150                       | 765 x 0.50                   | 1.8                  | 20.2             | 0,0029                             | 1520           | 0.129                             |
| 185                       | 943 x 0.50                   | 2.0                  | 22.4             | 0,0029                             | 1860           | 0.106                             |
| 240                       | 1224 x 0.50                  | 2.2                  | 25.4             | 0,0028                             | 2365           | 0.0801                            |



**PVC insulated, non-sheathed, heat resisting cable for internal wiring, single core and twisted twin, 300/500 V**



**Application:**

- In dry rooms, apparatus, switch and distribution boards, for fixed installation in conduits, over and under plaster and on insulated supports over plaster. Direct laying in plaster is not permitted.
- Minimum bending radius: 4 times of maximum overall diameter.

**Standard:**

- ISIRI (607)07
- ISIRI (607)08
- IEC (60227)07
- IEC (60227)08
- BS 6004
- HD 21

**Construction:**

- Annealed copper conductor, class 1, 2 & 5.
- PVC insulation, type E.

**General specification:**

- Rated voltage: 300/500 V.
- Working temperature: Max. 90°C.
- Harmonized code designation:  
solid conductor: H05V2-U, stranded conductor: H05V2-R & flexible conductor: H05V2-K.

**PVC insulated, non-sheathed, heat resisting cable for internal wiring, single core and twisted twin, 300/500 V**

| Cross-sectional area<br>Nom. | No. of wires x<br>diameter<br>Nom. | Insulation<br>thickness | Overall<br>diameter | Insulation<br>resistance<br>at 90°C<br>Min. | Weight<br>Approx. | Conductor<br>resistance at<br>20°C<br>Max. |
|------------------------------|------------------------------------|-------------------------|---------------------|---|-------------------|--|
| mm <sup>2</sup>              | mm                                 | mm                      | mm                  | MΩ.km                                       | kg/km             | Ω/km                                       |
| 0.5                          | 1 x 0.80                           | 0.6                     | 2.3                 | 0.015                                       | 9                 | 36.0                                       |
| 0.75                         | 1 x 0.98                           | 0.6                     | 2.5                 | 0.013                                       | 11                | 24.5                                       |
| 1                            | 1 x 1.13                           | 0.6                     | 2.7                 | 0.012                                       | 15                | 18.1                                       |
| 1.5                          | 1 x 1.38                           | 0.7                     | 3.2                 | 0.011                                       | 21                | 12.1                                       |
| 2.5                          | 1 x 1.78                           | 0.8                     | 3.9                 | 0.009                                       | 31                | 7.41                                       |
| 0.5                          | 7 x 0.31                           | 0.6                     | 2.4                 | 0.014                                       | 10                | 36.0                                       |
| 0.75                         | 7 x 0.37                           | 0.6                     | 2.6                 | 0.012                                       | 14                | 24.5                                       |
| 1                            | 7 x 0.43                           | 0.6                     | 2.8                 | 0.011                                       | 17                | 18.1                                       |
| 0.5                          | 16 x 0.20                          | 0.6                     | 2.5                 | 0.013                                       | 9                 | 39.0                                       |
| 0.75                         | 24 x 0.20                          | 0.6                     | 2.7                 | 0.012                                       | 12                | 26.0                                       |
| 1                            | 32 x 0.20                          | 0.6                     | 2.8                 | 0.010                                       | 15                | 19.5                                       |
| 1.5                          | 30 x 0.25                          | 0.7                     | 3.4                 | 0.009                                       | 21                | 13.3                                       |
| 2.5                          | 50 x 0.25                          | 0.8                     | 4.1                 | 0.009                                       | 33                | 7.98                                       |

**Ordinary duty PVC insulated and sheathed flexible cord, parallel twin, circular twin, 3-core, 4-core and 5-core, 300/500 V**



**Application:**

- For all applications where cables undergo medium mechanical stress as in small and medium apparatus in domestic, commercial or light industrial environment (e.g. household appliances such as washing-machines, sewing-machines and fridges). The temporary or occasional use outdoors is allowed where vertical water-drop fall is likely. Not suitable for use in industrial or agricultural workshops, connection of portable and non-domestic tools.
- Minimum bending radius: 10 times of maximum overall diameter for mobile service and 4 times of maximum overall diameter for fixed installation.

**Standard:**

- ISIRI (607)53
- IEC (60227)53
- BS 6500
- HD 21

**Construction:**

- Annealed stranded copper conductor, class 5.
- PVC insulation, type D.
- Cores twisted together for circular cords or laid parallel for flat cords.
- PVC sheath type ST5.

**General specification:**

- Rated voltage: 300/500 V.
- Working temperature: Max. 70°C.
- Harmonized code designation:  
H05VV-F, H05VVH2-F.

**Ordinary duty PVC insulated and sheathed flexible cord, parallel twin, circular twin, 3-core, 4-core and 5-core, 300/500 V**

| Cross-sectional area Nom. | No. of wires x diameter Nom. | Insulation thickness | Sheath thickness | Overall dimension | Insulation resistance at 70°C Min. | Weight Approx. | Conductor resistance at 20°C Max. |
|---------------------------|------------------------------|----------------------|------------------|-------------------|------------------------------------|----------------|-----------------------------------|
| mm <sup>2</sup>           | mm                           | mm                   | mm               | mm                | MΩ.km                              | kg/km          | Ω/km                              |
| 2 x 0.75                  | 24 x 0.20                    | 0.6                  | 0.8              | 6.3 or 4.0 x 6.5  | 0.011                              | 53<br>45       | 26.0                              |
| 2 x 1                     | 32 x 0.20                    | 0.6                  | 0.8              | 6.6               | 0.010                              | 63             | 19.5                              |
| 2 x 1.5                   | 30 x 0.25                    | 0.7                  | 0.8              | 7.6               | 0.010                              | 82             | 13.3                              |
| 2 x 2.5                   | 50 x 0.25                    | 0.8                  | 1.0              | 9.4               | 0.009                              | 129            | 7.98                              |
| 2 x 4                     | 56 x 0.30                    | 0.8                  | 1.1              | 10.8              | 0.0078                             | 187            | 4.95                              |
| 3 x 0.75                  | 24 x 0.20                    | 0.6                  | 0.8              | 6.7               | 0.011                              | 67             | 26.0                              |
| 3 x 1                     | 32 x 0.20                    | 0.6                  | 0.8              | 7.0               | 0.010                              | 75             | 19.5                              |
| 3 x 1.5                   | 30 x 0.25                    | 0.7                  | 0.9              | 8.3               | 0.010                              | 105            | 13.3                              |
| 3 x 2.5                   | 56 x 0.25                    | 0.8                  | 1.1              | 10.2              | 0.009                              | 164            | 7.98                              |
| 3 x 4                     | 56 x 0.30                    | 0.8                  | 1.2              | 10.7              | 0.0078                             | 236            | 4.95                              |
| 4 x 0.75                  | 24 x 0.20                    | 0.6                  | 0.8              | 7.3               | 0.011                              | 77             | 26.0                              |
| 4 x 1                     | 32 x 0.20                    | 0.6                  | 0.9              | 7.9               | 0.010                              | 94             | 19.5                              |
| 4 x 1.5                   | 30 x 0.25                    | 0.7                  | 1.0              | 9.3               | 0.010                              | 135            | 13.3                              |
| 4 x 2.5                   | 50 x 0.25                    | 0.8                  | 1.1              | 11.2              | 0.009                              | 201            | 7.98                              |
| 4 x 4                     | 56 x 0.30                    | 0.8                  | 1.2              | 12.8              | 0.0078                             | 296            | 4.95                              |
| 5 x 0.75                  | 24 x 0.20                    | 0.6                  | 0.9              | 8.2               | 0.011                              | 96             | 26.0                              |
| 5 x 1                     | 32 x 0.20                    | 0.6                  | 0.9              | 8.7               | 0.010                              | 112            | 19.5                              |
| 5 x 1.5                   | 30 x 0.25                    | 0.7                  | 1.1              | 10.3              | 0.010                              | 165            | 13.3                              |
| 5 x 2.5                   | 56 x 0.25                    | 0.8                  | 1.2              | 12.4              | 0.009                              | 245            | 7.98                              |
| 5 x 4                     | 56 x 0.30                    | 0.8                  | 1.4              | 14.4              | 0.0078                             | 374            | 4.95                              |

**Light duty 90°C PVC insulated and sheathed flexible cord, parallel twin, circular twin, 3-core and 4-core, 300/300 V**



**Application:**

- For installation in domestic environment, for domestic home appliances, lamps, office machines with light mechanical stress. Suitable for environments where higher temperature resistance is needed, if cable is not in direct contact with hot surfaces. Not for external use.
- Minimum bending radius: 6 times of maximum overall diameter.

**Standard:**

- ISIRI (607)56
- IEC (60227)56
- BS 6500
- HD 21

**Construction:**

- Annealed stranded copper conductor, class 5.
- PVC insulation, type E.
- Cores twisted together for circular cords or laid parallel for flat cords.
- PVC sheath type ST10.

**General specification:**

- Rated voltage: 300/300 V.
- Working temperature: Max. 90°C.
- Harmonized code designation:  
H03V2V2-F, H03V2V2H2-F.

**Light duty 90°C PVC insulated and sheathed flexible cord, parallel twin, circular twin, 3-core and 4-core, 300/300 V**

| Cross-sectional area Nom. | No. of wires x diameter Nom. | Insulation thickness | Sheath thickness | Overall dimension      | Insulation resistance at 90°C Min. | Weight Approx. | Conductor resistance at 20°C Max. |
|---------------------------|------------------------------|----------------------|------------------|------------------------|------------------------------------|----------------|-----------------------------------|
| mm <sup>2</sup>           | mm                           | mm                   | mm               | mm                     | MΩ.km                              | kg/km          | Ω/km                              |
| 2 x 0.5                   | 16 x 0.20                    | 0.5                  | 0.6              | 5.2<br>or<br>3.4 x 5.4 | 0.012                              | 35<br>27       | 39.0                              |
| 2 x 0.75                  | 24 x 0.20                    | 0.5                  | 0.6              | 5.5<br>or<br>3.4 x 5.7 | 0.010                              | 43<br>33       | 26.0                              |
| 3 x 0.5                   | 16 x 0.20                    | 0.5                  | 0.6              | 5.5                    | 0.012                              | 40             | 39.0                              |
| 3 x 0.75                  | 24 x 0.20                    | 0.5                  | 0.6              | 5.7                    | 0.010                              | 51             | 26.0                              |
| 4 x 0.5                   | 16 x 0.20                    | 0.5                  | 0.6              | 6.0                    | 0.012                              | 56             | 39.0                              |
| 4 x 0.75                  | 24 x 0.20                    | 0.5                  | 0.6              | 6.5                    | 0.010                              | 63             | 26.0                              |





Ordinary duty 90°C PVC insulated and sheathed flexible cord, parallel twin, circular twin, 3-core, 4-core and 5-core, 300/500 V



**Application:**

- For installation in domestic environment, kitchen, office and household appliances, also in humid conditions, as well as connection subject to medium mechanical stress (e.g. washing-machines, hair-dryers, fridges). Also, they can be used for kitchen or heating appliances, if cable is not in direct contact with hot surfaces nor exposed to thermal radiation. Not suitable for industrial or agricultural workshops and non-domestic apparatus. Suitable where heat resistance is required.
- Minimum bending radius: 10 times of maximum overall diameter for mobile service and 4 times of maximum overall diameter for fixed installation.

**Standard:**

- ISIRI (607)57
- IEC (60227)57
- BS 6500
- HD 21

**Construction:**

- Annealed stranded copper conductor, class 5.
- PVC insulation, type E.
- Cores twisted together for circular cords or laid parallel for flat cords.
- PVC sheath type ST10.

**General specification:**

- Rated voltage: 300/500 V.
- Working temperature: Max. 90°C.
- Harmonized code designation: H05V2V2-F, H05V2V2H2-F.

**Ordinary duty 90°C PVC insulated and sheathed flexible cord, parallel twin, circular twin, 3-core, 4-core and 5-core, 300/500 V**

| Cross-sectional area Nom. | No. of wires x diameter Nom. | Insulation thickness | Sheath thickness | Overall dimension      | Insulation resistance at 90°C Min. | Weight Approx. | Conductor resistance at 20°C Max. |
|---------------------------|------------------------------|----------------------|------------------|------------------------|------------------------------------|----------------|-----------------------------------|
| mm <sup>2</sup>           | mm                           | mm                   | mm               | mm                     | MΩ.km                              | kg/km          | Ω/km                              |
| 2 x 0.75                  | 24 x 0.20                    | 0.6                  | 0.8              | 6.3<br>or<br>4.0 x 6.5 | 0.011                              | 52<br>43       | 26.0                              |
| 2 x 1                     | 32 x 0.20                    | 0.6                  | 0.8              | 6.6                    | 0.010                              | 62             | 19.5                              |
| 2 x 1.5                   | 30 x 0.25                    | 0.7                  | 0.8              | 7.6                    | 0.010                              | 80             | 13.3                              |
| 2 x 2.5                   | 50 x 0.25                    | 0.8                  | 1.0              | 9.4                    | 0.009                              | 130            | 7.98                              |
| 3 x 0.75                  | 24 x 0.20                    | 0.6                  | 0.8              | 6.7                    | 0.011                              | 62             | 26.0                              |
| 3 x 1                     | 32 x 0.20                    | 0.6                  | 0.8              | 7.0                    | 0.010                              | 74             | 19.5                              |
| 3 x 1.5                   | 30 x 0.25                    | 0.7                  | 0.9              | 8.3                    | 0.010                              | 99             | 13.3                              |
| 3 x 2.5                   | 50 x 0.25                    | 0.8                  | 1.1              | 10.2                   | 0.009                              | 165            | 7.98                              |
| 4 x 0.75                  | 24 x 0.20                    | 0.6                  | 0.8              | 7.3                    | 0.011                              | 63             | 26.0                              |
| 4 x 1                     | 32 x 0.20                    | 0.6                  | 0.9              | 7.9                    | 0.010                              | 97             | 19.5                              |
| 4 x 1.5                   | 30 x 0.25                    | 0.7                  | 1.0              | 9.3                    | 0.010                              | 131            | 13.3                              |
| 4 x 2.5                   | 50 x 0.25                    | 0.8                  | 1.1              | 11.2                   | 0.009                              | 205            | 7.98                              |
| 5 x 0.75                  | 24 x 0.20                    | 0.6                  | 0.9              | 8.2                    | 0.011                              | 96             | 26.0                              |
| 5 x 1                     | 32 x 0.20                    | 0.6                  | 0.9              | 8.7                    | 0.010                              | 119            | 19.5                              |
| 5 x 1.5                   | 30 x 0.25                    | 0.7                  | 1.1              | 10.3                   | 0.010                              | 158            | 13.3                              |
| 5 x 2.5                   | 50 x 0.25                    | 0.8                  | 1.2              | 12.4                   | 0.009                              | 267            | 7.98                              |

**PVC insulated, non-sheathed cable, 450/750 V, single core for installation at low temperatures, 450/750 V**



**Application:**

- In dry rooms, apparatus, switch and distribution boards, for fixed installation in conduits, over and under plaster and on insulated supports over plaster. Direct laying in plaster is not permitted.
- Minimum bending radius: 4 times of maximum overall diameter.

**Standard:**

- BS 6004
- HD 21

**Construction:**

- Annealed copper conductor, class 1, 2 & 5.
- PVC insulation, type TI 4.

**General specification:**

- Rated voltage: 450/750 V.
- Working temperature: Max. 70°C.
- Harmonized code designation:  
solid conductor: H07V3-U, stranded conductor: H07V3-R, flexible conductor: H07V3-K.

**PVC insulated, non-sheathed cable, 450/750 V, single core for installation at low temperatures, 450/750 V**

| Cross-sectional area Nom. | No. of wires x diameter Nom. | Insulation thickness | Overall diameter | Insulation resistance at 70°C Min. | Weight Approx. | Conductor resistance at 20°C Max. |
|---------------------------|------------------------------|----------------------|------------------|------------------------------------|----------------|-----------------------------------|
| mm <sup>2</sup>           | mm                           | mm                   | mm               | MΩ.km                              | kg/km          | Ω/km                              |
| 1.5                       | 1 x 1.38                     | 0.7                  | 3.2              | 0.011                              | 21             | 12.1                              |
| 2.5                       | 1 x 1.78                     | 0.8                  | 3.9              | 0.010                              | 31             | 7.41                              |
| 4                         | 1 x 2.25                     | 0.8                  | 4.4              | 0.0087                             | 48             | 4.61                              |
| 6                         | 1 x 2.76                     | 0.8                  | 5.0              | 0.0074                             | 68             | 3.08                              |
| 10                        | 1 x 3.57                     | 1.0                  | 6.4              | 0.0072                             | 112            | 1.83                              |
| 1.5                       | 7 x 0.52                     | 0.7                  | 3.3              | 0.010                              | 21             | 12.1                              |
| 2.5                       | 7 x 0.67                     | 0.8                  | 4.0              | 0.0099                             | 33             | 7.41                              |
| 4                         | 7 x 0.85                     | 0.8                  | 4.6              | 0.0082                             | 51             | 4.61                              |
| 6                         | 7 x 1.04                     | 0.8                  | 5.2              | 0.0070                             | 72             | 3.08                              |
| 10                        | 7 x 1.35                     | 1.0                  | 6.7              | 0.0067                             | 118            | 1.83                              |
| 16                        | 7 x 1.70                     | 1.0                  | 7.8              | 0.0056                             | 178            | 1.15                              |
| 25                        | 7 x 2.14                     | 1.2                  | 9.7              | 0.0053                             | 279            | 0.727                             |
| 35                        | 7 x 2.52                     | 1.2                  | 10.9             | 0.0046                             | 376            | 0.524                             |
| 1.5                       | 30 x 0.25                    | 0.7                  | 3.4              | 0.010                              | 22             | 13.3                              |
| 2.5                       | 50 x 0.25                    | 0.8                  | 4.1              | 0.0095                             | 34             | 7.98                              |
| 4                         | 56 x 0.30                    | 0.8                  | 4.8              | 0.0078                             | 53             | 4.95                              |
| 6                         | 84 x 0.30                    | 0.8                  | 5.3              | 0.0068                             | 74             | 3.30                              |
| 10                        | 80 x 0.40                    | 1.0                  | 6.8              | 0.0065                             | 125            | 1.91                              |
| 16                        | 126 x 0.40                   | 1.0                  | 8.1              | 0.0053                             | 194            | 1.21                              |
| 25                        | 196 x 0.40                   | 1.2                  | 10.2             | 0.0050                             | 297            | 0.780                             |
| 35                        | 278 x 0.40                   | 1.2                  | 11.7             | 0.0043                             | 397            | 0.554                             |