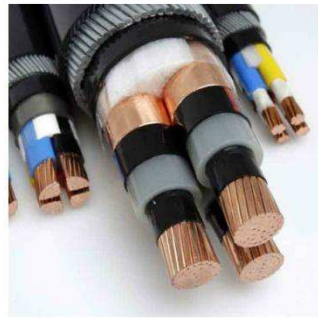




# 0.6/1kV Al-Cu XLPE Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armored XLPE Power Cable



## SPECIFICATIONS AND STANDARDS

1. IEC; VDE ; ICEA; AS/NZS; BS; JIS.
2. Rated Voltage: 0.6/1kV
3. Number of cores : One core, two cores, three cores, 3+1 cores, four cores, 3+2 cores, 4+1 cores, Five cores.

## APPLICATIONS

Low Voltage XLPE Insulated power cable is used to transmit and distribute power in power transmission and distribution system of 1kV or lower. It is generally applied to the fields including power, construction, mines, metallurgy, petrochemical industry and communication in complete replace of oil immersed paper insulated power cable.

## PROPERTY:

1. The highest allowed operating temperature of conductor for long-term working is 90 degrees.
2. In short circuit (Max long term is no more than 5 seconds), the highest temperature for conductor is no more than 250 degrees.
3. The cable is laid without horizontal drop limit. The environment temperature should be no lower than 0 when lay. Otherwise it should be preheated.
4. Excellent electrical performance, resistance to chemical corrosion.
5. They can stand advisable traction when laid. They can stand traction from Outside. Left low smoke halogen-free after burned. Retard the burning of the cable.

## CONSTRUCTION

| 0.6/1kV XLPE Insulated PVC Sheathed Power Cable | Conductor |        | Insulation | Armor |     |     |     | Outer Sheath |     |
|---|-----------|--------|------------|-------|-----|-----|-----|--------------|-----|
|   | Aluminum  | Copper |            | PVC   | SW  | ST  | DST | AW           | PVC |
| Cu/ XLPE /PVC                                   |           | P      | P          | ---   | --- | --- | --- | P            |     |
| Cu/ XLPE /PE                                    |           | P      | P          | ---   | --- | --- | --- |              | P   |
| Al/ XLPE /PVC                                   | P         |        | P          | ---   | --- | --- | --- | P            |     |
| Al/ XLPE /PE                                    | P         |        | P          | ---   | --- | --- | --- |              | P   |
| Cu/ XLPE /STA/PVC                               |           | P      | P          | ---   | P   | --- | --- | P            |     |
| Cu/ XLPE /STA/PE                                |           | P      | P          | ---   | P   | --- | --- |              | P   |
| Al/ XLPE /STA/PVC                               | P         |        | P          | ---   | P   | --- | --- | P            |     |



# 0.6/1kV Al-Cu XLPE Insulated PVC Sheathed Power Cable

## Low Voltage Un-Armoured or SWA/STA Armored XLPE Power Cable

|                    |   |   |   |     |     |     |     |   |   |
|--------------------|---|---|---|-----|-----|-----|-----|---|---|
| Al/ XLPE /STA/PE   | P |   | P | --- | P   | --- | --- |   | P |
| Cu/ XLPE /DSTA/PVC |   | P | P | --- | --- | P   | --- | P |   |
| Cu/ XLPE /DSTA/PE  |   | P | P | --- | --- | P   | --- |   | P |
| Al/ XLPE /DSTA/PVC | P |   | P | --- | --- | P   | --- | P |   |
| Al/ XLPE /DSTA/PE  | P |   | P | --- | --- | P   | --- |   | P |
| Cu/ XLPE /SWA/PVC  |   | P | P | P   | --- | --- | --- | P |   |
| Cu/ XLPE /SWA/PE   |   | P | P | P   | --- | --- | --- |   | P |
| Al/ XLPE /SWA/PVC  | P |   | P | P   | --- | --- | --- | P |   |
| Al/ XLPE /SWA/PE   | P |   | P | P   | --- | --- | --- |   | P |
| Cu/ XLPE /AWA/PVC  |   | P | P | --- | --- | --- | P   | P |   |
| Cu/ XLPE /AWA/PE   |   | P | P | --- | --- | --- | P   |   | P |
| Al/ XLPE /AWA/PVC  | P |   | P | --- | --- | --- | P   | P |   |
| Al/ XLPE /AWA/PE   | P |   | P | --- | --- | --- | P   |   | P |

Armor Material : SW=steel wire, ST=steel tape, DST=double steel tape, AW=aluminum wire

## Technical Parameter of Low Voltage 0.6/1kV XLPE Power Cable :

### 1) Single Core, Cu or Al / XLPE Un-armoured PVC Power Cable;

#### Single Core, Cu or Al / XLPE AWA armored PVC Power Cable;

| Nominal Cross Section | Approx. Overall Diameter of Conductor | Nominal Thickness of XLPE Insulation | Nominal Thickness of PVC Inner Sheath | Diameter of Al Wires | Nominal Thickness of PVC Outer Sheath |     | Approx. Overall Diameter |      | Approx. Weight |     |              |       |
|-----------------------|---------------------------------------|--------------------------------------|---------------------------------------|----------------------|---------------------------------------|-----|--------------------------|------|----------------|-----|--------------|-------|
|                       |                                       |                                      |                                       |                      | UnAr                                  | AWA | UnAr                     | AWA  | Cu Conductor   |     | Al Conductor |       |
|                       |                                       |                                      | mm                                    | mm                   | mm                                    | mm  | mm                       | mm   | mm             | mm  | kg/km        | kg/km |
| 1x 1.5                | 1.6                                   | 0.7                                  | ---                                   | ---                  | 1.4                                   | --- | 5.7                      | ---  | 44             | --- | ---          | ---   |
| 1x 2.5                | 2.0                                   | 0.7                                  | ---                                   | ---                  | 1.4                                   | --- | 6.2                      | ---  | 57             | --- | ---          | ---   |
| 1x 4                  | 2.6                                   | 0.7                                  | ---                                   | ---                  | 1.4                                   | --- | 6.7                      | ---  | 74             | --- | ---          | ---   |
| 1x 6                  | 3.1                                   | 0.7                                  | ---                                   | ---                  | 1.4                                   | --- | 7.3                      | ---  | 96             | --- | ---          | ---   |
| 1x 10                 | 3.8                                   | 0.7                                  | 1.0                                   | 0.8                  | 1.4                                   | 1.4 | 7.9                      | 12.4 | 134            | 235 | 74           | 175   |
| 1x 16                 | 4.8                                   | 0.7                                  | 1.0                                   | 0.8                  | 1.4                                   | 1.4 | 8.9                      | 13.4 | 196            | 307 | 99           | 209   |
| 1x 25                 | 6.0                                   | 0.9                                  | 1.0                                   | 0.8                  | 1.4                                   | 1.4 | 10.6                     | 15.1 | 289            | 417 | 139          | 267   |
| 1x 35                 | 7.1                                   | 0.9                                  | 1.0                                   | 0.8                  | 1.4                                   | 1.4 | 11.7                     | 16.2 | 382            | 522 | 172          | 309   |
| 1x 50                 | 8.4                                   | 1.0                                  | 1.0                                   | 1.25                 | 1.4                                   | 1.5 | 13.2                     | 18.7 | 503            | 710 | 220          | 427   |
| 1x 70                 | 10.0                                  | 1.1                                  | 1.0                                   | 1.25                 | 1.4                                   | 1.5 | 15.0                     | 20.5 | 702            | 936 | 293          | 522   |



# 0.6/1kV Al-Cu XLPE Insulated PVC Sheathed Power Cable

## Low Voltage Un-Armoured or SWA/STA Armored XLPE Power Cable

|         |      |     |     |      |     |     |      |      |       |       |      |      |
|---------|------|-----|-----|------|-----|-----|------|------|-------|-------|------|------|
| 1x 95   | 11.7 | 1.1 | 1.0 | 1.25 | 1.5 | 1.5 | 16.8 | 22.4 | 950   | 1209  | 384  | 638  |
| 1x 120  | 13.3 | 1.2 | 1.0 | 1.6  | 1.5 | 1.6 | 18.6 | 25.1 | 1186  | 1531  | 469  | 806  |
| 1x 150  | 14.5 | 1.4 | 1.0 | 1.6  | 1.5 | 1.6 | 20.4 | 26.7 | 1458  | 1820  | 567  | 923  |
| 1x 185  | 16.4 | 1.6 | 1.0 | 1.6  | 1.5 | 1.7 | 22.7 | 29.2 | 1810  | 2219  | 698  | 1105 |
| 1x 240  | 18.7 | 1.7 | 1.0 | 1.6  | 1.6 | 1.8 | 25.4 | 31.9 | 2348  | 2802  | 889  | 1335 |
| 1x 300  | 20.4 | 1.8 | 1.0 | 1.6  | 1.7 | 1.8 | 27.4 | 33.7 | 2917  | 3393  | 1091 | 1568 |
| 1x 400  | 23.2 | 2.0 | 1.2 | 2.0  | 1.8 | 2.0 | 30.9 | 38.5 | 3713  | 4377  | 1379 | 2043 |
| 1x 500  | 26.4 | 2.2 | 1.2 | 2.0  | 1.9 | 2.1 | 34.7 | 42.3 | 4770  | 5512  | 1767 | 2510 |
| 1x 630  | 30.0 | 2.4 | 1.2 | 2.0  | 2.1 | 2.2 | 39.1 | 46.5 | 6105  | 6914  | 2248 | 3058 |
| 1x 800  | 34.0 | 2.6 | 1.4 | 2.5  | 2.2 | 2.4 | 43.6 | 52.6 | 7893  | 9008  | 2867 | 3981 |
| 1x 1000 | 41.4 | 2.8 | 1.4 | 2.5  | 2.3 | 2.5 | 51.6 | 60.8 | 10189 | 11524 | 3690 | 5025 |

**Note:**

- 1) 1.5mm<sup>2</sup> ~ 6mm<sup>2</sup> are normal round stranded conductor, 10mm<sup>2</sup> ~ 800mm<sup>2</sup> are compact round conductor, 1000mm<sup>2</sup> should be compact round segments conductor.
- 2) UnAr: Unarmoured ; AWA: Aluminum Wire Armoured
- 3) Only the halogen free cables shall be generally complied with IEC61034 and 60754.

**(2) Two Cores, Cu or Al / XLPE un-armoured PVC Power Cable;**

**Two Cores, Cu or Al / XLPE STA or SWA Armoured PVC Power Cable;**

| Nominal Cross Section | Approx. Overall Diameter of Conductor | Nominal Thickness of XLPE Insulation | Nominal Thickness of PVC Inner Sheath |     | Thickness of Steel Tape or Diameter of Steel Wire |     | Thickness of PVC Outer Sheath |     |     | Approx. Overall Diameter |      |      | Approx. Weight |       |       |              |       |       |
|-----------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----|---|-----|-------------------------------|-----|-----|--------------------------|------|------|----------------|-------|-------|--------------|-------|-------|
|                       |                                       |                                      | STA                                   | SWA | STA   | SWA | UnAr                          | STA | SWA | UnAr                     | STA  | SWA  | Cu Conductor   |       |       | Al Conductor |       |       |
|                       |                                       |                                      |                                       |     |   |     |                               |     |     |                          |      |      | kg/km          | kg/km | kg/km | kg/km        | kg/km | kg/km |
| 1.5                   | 1.6                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 0.8 | 1.7                           | 1.5 | 1.7 | 10.2                     | 13.0 | 14.7 | 110            | 227   | 325   | —            | —     | —     |
| 2.5                   | 2.0                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 0.8 | 1.7                           | 1.5 | 1.7 | 11.2                     | 14.0 | 15.7 | 142            | 270   | 378   | —            | —     | —     |
| 4                     | 2.6                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 0.8 | 1.7                           | 1.5 | 1.7 | 12.2                     | 15.0 | 16.7 | 181            | 321   | 438   | —            | —     | —     |
| 6                     | 3.1                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 0.8 | 1.7                           | 1.5 | 1.7 | 13.4                     | 16.2 | 17.9 | 233            | 386   | 516   | —            | —     | —     |
| 10                    | 3.8                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 1.3 | 1.7                           | 1.5 | 1.7 | 14.8                     | 17.6 | 20.2 | 315            | 483   | 763   | 194          | 363   | 643   |
| 16                    | 4.8                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 1.3 | 1.7                           | 1.5 | 1.7 | 16.9                     | 19.6 | 22.3 | 455            | 646   | 963   | 259          | 450   | 767   |
| 25                    | 6.0                                   | 0.9                                  | 1.2                                   | 1.0 | 0.2   | 1.6 | 1.7                           | 1.5 | 1.7 | 20.2                     | 23.0 | 26.3 | 646            | 892   | 1413  | 363          | 591   | 1112  |
| 35                    | 7.1                                   | 0.9                                  | 1.2                                   | 1.0 | 0.2   | 1.6 | 1.7                           | 1.5 | 1.7 | 22.5                     | 25.2 | 28.6 | 857            | 1110  | 1682  | 434          | 683   | 1242  |
| 50                    | 8.4                                   | 1.0                                  | 1.2                                   | 1.0 | 0.2   | 1.6 | 1.7                           | 1.5 | 1.7 | 25.6                     | 28.3 | 31.7 | 1123           | 1411  | 2061  | 555          | 838   | 1474  |
| 70                    | 10.0                                  | 1.1                                  | 1.2                                   | 1.0 | 0.2   | 1.6 | 1.7                           | 1.6 | 1.9 | 22.7                     | 25.6 | 29.1 | 1427           | 1692  | 2295  | 591          | 836   | 1382  |
| 95                    | 11.7                                  | 1.1                                  | 1.2                                   | 1.2 | 0.2   | 2.0 | 1.9                           | 1.7 | 2.0 | 25.8                     | 28.6 | 33.3 | 1935           | 2222  | 3132  | 782          | 1050  | 1914  |
| 120                   | 13.3                                  | 1.2                                  | 1.2                                   | 1.2 | 0.5   | 2.0 | 2.0                           | 1.9 | 2.1 | 29.2                     | 33.6 | 36.7 | 2431           | 3072  | 3777  | 971          | 1573  | 2226  |
| 150                   | 14.5                                  | 1.4                                  | 1.3                                   | 1.2 | 0.5   | 2.0 | 2.1                           | 2.0 | 2.2 | 31.9                     | 36.5 | 39.3 | 2984           | 3696  | 4450  | 1171         | 1845  | 2545  |
| 185                   | 16.4                                  | 1.6                                  | 1.3                                   | 1.4 | 0.5   | 2.5 | 2.2                           | 2.1 | 2.4 | 36.5                     | 41.2 | 45.4 | 3721           | 4545  | 5840  | 1461         | 2246  | 3442  |



# 0.6/1kV Al-Cu XLPE Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armored XLPE Power Cable

|     |      |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| 240 | 18.7 | 1.7 | 1.4 | 1.4 | 0.5 | 2.5 | 2.4 | 2.2 | 2.5 | 41.3 | 46.0 | 50.3 | 4841 | 5770 | 7190 | 1924 | 2852 | 4272 |
| 300 | 20.4 | 1.8 | 1.5 | 1.5 | 0.5 | 2.5 | 2.5 | 2.4 | 2.6 | 44.7 | 49.6 | 53.8 | 6023 | 7041 | 8575 | 2363 | 3381 | 4915 |

**Note:**

- 1) 1.5mm<sup>2</sup> ~ 6mm<sup>2</sup> are normal round stranded conductor, 10mm<sup>2</sup> ~ 800mm<sup>2</sup> are compact round conductor, 1000m<sup>2</sup> should be compact round segments conductor.
- 2) UnAr: Unarmoured ; AWA: Aluminum Wire Armoured
- 3) Only the halogen free cables shall be generally complied with IEC61034 and 60754.

**(3) Three Cores, Cu or Al / XLPE Un-armored PVC Power Cable;**

**Three Cores, Cu or Al / XLPE STA or SWA Armoured PVC Power Cable;**

| Nominal Cross Section | Approx. Overall Diameter of Conductor | Nominal Thickness of XLPE Insulation | Nominal Thickness of PVC Inner Sheath |     | Thickness of Steel Tape or Diameter of Steel Wire |      | Thickness of PVC Outer Sheath |     |     | Approx. Overall Diameter | Approx. Weight |      |      |              |       |      |      |       |
|-----------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----|---|------|-------------------------------|-----|-----|--------------------------|----------------|------|------|--------------|-------|------|------|-------|
|                       |                                       |                                      | STA                                   | SWA | STA   | SWA  | UnAr                          | STA | SWA |                          | Cu Conductor   |      |      | Al Conductor |       |      |      |       |
|                       |                                       |                                      |                                       |     |   |      |                               |     |     |                          | mm             | mm   | mm   | mm           | mm    | mm   | mm   | kg/km |
| 1.5                   | 1.6                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 10.7                     | 13.5           | 15.2 | 130  | 253          | 355   | —    | —    | —     |
| 2.5                   | 2.0                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 11.7                     | 14.5           | 16.2 | 173  | 308          | 420   | —    | —    | —     |
| 4                     | 2.6                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 12.9                     | 15.7           | 17.4 | 227  | 374          | 500   | —    | —    | —     |
| 6                     | 3.1                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 14.1                     | 16.9           | 18.6 | 297  | 458          | 596   | —    | —    | —     |
| 10                    | 3.8                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 15.7                     | 18.4           | 21.1 | 413  | 591          | 886   | 236  | 414  | 709   |
| 16                    | 4.8                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 17.9                     | 20.7           | 23.3 | 609  | 811          | 1142  | 314  | 517  | 847   |
| 25                    | 6.0                                   | 0.9                                  | 1.2                                   | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 21.5                     | 24.3           | 27.6 | 903  | 1145         | 1691  | 451  | 694  | 1240  |
| 35                    | 7.1                                   | 0.9                                  | 1.2                                   | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 23.9                     | 26.7           | 30.0 | 1187 | 1456         | 2068  | 550  | 814  | 1413  |
| 50                    | 8.4                                   | 1.0                                  | 1.2                                   | 1.0 | 0.2   | 1.6  | 1.7                           | 1.6 | 1.8 | 27.3                     | 30.2           | 33.6 | 1563 | 1881         | 2571  | 712  | 1025 | 1701  |
| 70                    | 10.0                                  | 1.1                                  | 1.2                                   | 1.2 | 0.2   | 2.0  | 1.8                           | 1.7 | 1.9 | 26.4                     | 29.4           | 33.9 | 2097 | 2403         | 3321  | 849  | 1133 | 1981  |
| 95                    | 11.7                                  | 1.1                                  | 1.2                                   | 1.2 | 0.5   | 2.0  | 1.9                           | 2.0 | 2.2 | 29.8                     | 34.6           | 37.6 | 2834 | 3517         | 4238  | 1111 | 1751 | 2420  |
| 120                   | 13.3                                  | 1.2                                  | 1.3                                   | 1.4 | 0.5   | 2.5  | 2.0                           | 2.0 | 2.3 | 33.2                     | 38.2           | 42.4 | 3560 | 4332         | 5510  | 1377 | 2105 | 3226  |
| 150                   | 14.5                                  | 1.4                                  | 1.3                                   | 1.4 | 0.5   | 2.5  | 2.2                           | 2.0 | 2.4 | 37.9                     | 42.5           | 46.9 | 4406 | 5247         | 6577  | 1693 | 2492 | 3762  |
| 185                   | 16.4                                  | 1.6                                  | 1.4                                   | 1.4 | 0.5   | 2.5  | 2.3                           | 2.2 | 2.5 | 42.9                     | 47.8           | 52.1 | 5491 | 6476         | 7960  | 2109 | 3050 | 4473  |
| 240                   | 18.7                                  | 1.7                                  | 1.5                                   | 1.5 | 0.5   | 2.5  | 2.4                           | 2.4 | 2.6 | 48.0                     | 53.1           | 57.4 | 7144 | 8261         | 9914  | 2707 | 3779 | 5368  |
| 300                   | 20.4                                  | 1.8                                  | 1.5                                   | 1.5 | 0.5   | 2.5  | 2.6                           | 2.5 | 2.8 | 52.5                     | 57.5           | 61.8 | 8903 | 10119        | 11914 | 3337 | 4508 | 6235  |

**Note:**

- 1) 1.5mm<sup>2</sup> ~ 6mm<sup>2</sup> are normal round stranded conductor, 10mm<sup>2</sup> ~ 800mm<sup>2</sup> are compact round conductor, 1000m<sup>2</sup> should be compact round segments conductor.
- 2) UnAr: Unarmoured ; AWA: Aluminum Wire Armoured
- 3) Only the halogen free cables shall be generally complied with IEC61034 and 60754.



# 0.6/1kV Al-Cu XLPE Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armoured XLPE Power Cable

(4) 3+1 Cores, Cu or Al / XLPE Unarmoured PVC Power Cable;

3C+E Cores, Cu or Al / XLPE STA or SWA Armoured PVC Power Cable;

| Nominal Cross Section | Approx. Overall Diameter of Conductor | Nominal Thickness of XLPE Insulation | Nominal Cross Section of Earth Conductor | Thickness of PVC Inner Sheath |     | Thickness of Steel Tape or Diameter of Steel Wire |      | Thickness of PVC Outer Sheath |     |     | Approx. Overall Diameter |      |      | Approx. Weight Cable |       |       |              |       |       |
|-----------------------|---------------------------------------|--------------------------------------|--|-------------------------------|-----|---|------|-------------------------------|-----|-----|--------------------------|------|------|----------------------|-------|-------|--------------|-------|-------|
|                       |                                       |                                      |  | STA                           | SWA | STA   | SWA  | UnAr                          | STA | SWA | UnAr                     | STA  | SWA  | Cu Conductor         |       |       | Al Conductor |       |       |
|                       |                                       |                                      |  |                               |     |   |      |                               |     |     |                          |      |      | kg/km                | kg/km | kg/km | kg/km        | kg/km | kg/km |
| mm <sup>2</sup>       | mm                                    | mm                                   | mm <sup>2</sup>                          | mm                            | mm  | mm  | mm   | mm                            | mm  | mm  | mm                       | mm   | mm   | mm                   | mm    | mm    | mm           | mm    | mm    |
| 1.5                   | 1.6                                   | 0.7                                  | 1.5                                      | 1.2                           | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 11.5                     | 14.3 | 16.0 | 156                  | 288   | 398   | —            | —     | —     |
| 2.5                   | 2.0                                   | 0.7                                  | 2.5                                      | 1.2                           | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 12.7                     | 15.4 | 17.2 | 211                  | 355   | 478   | —            | —     | —     |
| 4                     | 2.6                                   | 0.7                                  | 4  | 1.2                           | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 13.9                     | 16.7 | 19.3 | 279                  | 438   | 704   | —            | —     | —     |
| 6                     | 3.1                                   | 0.7                                  | 6  | 1.2                           | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 15.4                     | 18.1 | 20.8 | 370                  | 544   | 831   | —            | —     | —     |
| 10                    | 3.8                                   | 0.7                                  | 10                                       | 1.2                           | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 17.1                     | 19.8 | 22.5 | 527                  | 720   | 1036  | 286          | 479   | 795   |
| 16                    | 4.8                                   | 0.7                                  | 16                                       | 1.2                           | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 19.5                     | 22.3 | 25.6 | 778                  | 999   | 1509  | 386          | 607   | 1116  |
| 25                    | 6.0                                   | 0.9                                  | 16                                       | 1.2                           | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 22.6                     | 25.4 | 28.7 | 1064                 | 1318  | 1890  | 514          | 769   | 1340  |
| 35                    | 7.1                                   | 0.9                                  | 16                                       | 1.2                           | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 24.6                     | 27.4 | 30.7 | 1340                 | 1617  | 2241  | 610          | 883   | 1509  |
| 50                    | 8.4                                   | 1.0                                  | 25                                       | 1.2                           | 1.0 | 0.2   | 1.6  | 1.7                           | 1.6 | 1.8 | 28.4                     | 31.4 | 34.7 | 1808                 | 2139  | 2870  | 807          | 1134  | 1851  |
| 70                    | 10.0                                  | 1.1                                  | 35                                       | 1.2                           | 1.2 | 0.2   | 2.0  | 1.8                           | 1.7 | 2.0 | 29.7                     | 32.6 | 37.3 | 2446                 | 2789  | 3831  | 988          | 1309  | 2280  |
| 95                    | 11.7                                  | 1.1                                  | 50                                       | 1.2                           | 1.2 | 0.5   | 2.0  | 2.0                           | 1.9 | 2.1 | 33.7                     | 38.1 | 41.1 | 3313                 | 4049  | 4865  | 1307         | 2000  | 2764  |
| 120                   | 13.3                                  | 1.2                                  | 70                                       | 1.3                           | 1.2 | 0.5   | 2.0  | 2.1                           | 2.0 | 2.3 | 36.3                     | 40.9 | 43.9 | 4223                 | 5033  | 5913  | 1631         | 2396  | 3223  |
| 150                   | 14.5                                  | 1.4                                  | 70                                       | 1.3                           | 1.4 | 0.5   | 2.5  | 2.2                           | 2.1 | 2.4 | 41.3                     | 46.0 | 50.2 | 5061                 | 5993  | 7415  | 1940         | 2826  | 4190  |
| 185                   | 16.4                                  | 1.6                                  | 95                                       | 1.4                           | 1.4 | 0.5   | 2.5  | 2.4                           | 2.2 | 2.5 | 46.6                     | 51.4 | 55.6 | 6400                 | 7446  | 9076  | 2453         | 3454  | 4983  |
| 240                   | 18.7                                  | 1.7                                  | 120                                      | 1.5                           | 1.5 | 0.5   | 2.5  | 2.5                           | 2.4 | 2.7 | 52.4                     | 57.3 | 61.8 | 8291                 | 9484  | 11337 | 3137         | 4284  | 6032  |
| 300                   | 20.4                                  | 1.8                                  | 150                                      | 1.5                           | 1.5 | 0.5   | 2.5  | 2.7                           | 2.6 | 2.8 | 58.0                     | 63.0 | 67.1 | 10322                | 11659 | 13632 | 3864         | 5155  | 7058  |

**Note:**

- 1) 1.5mm<sup>2</sup> ~ 6mm<sup>2</sup> are normal round stranded conductor, 10mm<sup>2</sup> ~ 800mm<sup>2</sup> are compact round conductor, 1000mm<sup>2</sup> should be compact round segments conductor.
- 2) UnAr: Unarmoured ; AWA: Aluminum Wire Armoured
- 3) Only the halogen free cables shall be generally complied with IEC61034 and 60754.

(5) Four Cores, Cu or Al / XLPE Un-armoured PVC Power Cable;

Four Cores, Cu or Al / XLPE STA or SWA Armoured PVC Power Cable;

| Nominal Cross Section | Approx. Overall Diameter of Conductor | Nominal Thickness of XLPE Insulation | Nominal Thickness of PVC Inner Sheath |     | Thickness of Steel Tape or Diameter of Steel Wire |     | Thickness of PVC Outer Sheath |     |     | Approx. Overall Diameter |      |      | Approx. Weight Cable |       |       |              |       |       |    |
|-----------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----|---|-----|-------------------------------|-----|-----|--------------------------|------|------|----------------------|-------|-------|--------------|-------|-------|----|
|                       |                                       |                                      | STA                                   | SWA | STA   | SWA | UnAr                          | STA | SWA | UnAr                     | STA  | SWA  | Cu Conductor         |       |       | Al Conductor |       |       |    |
|                       |                                       |                                      |                                       |     |   |     |                               |     |     |                          |      |      | kg/km                | kg/km | kg/km | kg/km        | kg/km | kg/km |    |
| mm <sup>2</sup>       | mm                                    | mm                                   | mm                                    | mm  | mm  | mm  | mm                            | mm  | mm  | mm                       | mm   | mm   | mm                   | mm    | mm    | mm           | mm    | mm    | mm |
| 1.5                   | 1.6                                   | 0.7                                  | 1.2                                   | 1.0 | 0.2   | 0.8 | 1.7                           | 1.5 | 1.7 | 11.5                     | 14.3 | 16.0 | 156                  | 288   | 398   | —            | —     | —     |    |



# 0.6/1kV Al-Cu XLPE Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armored XLPE Power Cable

|     |      |     |     |     |     |      |     |     |     |      |      |      |       |       |       |      |      |      |
|-----|------|-----|-----|-----|-----|------|-----|-----|-----|------|------|------|-------|-------|-------|------|------|------|
| 2.5 | 2.0  | 0.7 | 1.2 | 1.0 | 0.2 | 0.8  | 1.7 | 1.5 | 1.7 | 12.7 | 15.4 | 17.2 | 211   | 355   | 478   | —    | —    | —    |
| 4   | 2.6  | 0.7 | 1.2 | 1.0 | 0.2 | 1.25 | 1.7 | 1.5 | 1.7 | 13.9 | 16.7 | 19.3 | 279   | 438   | 704   | —    | —    | —    |
| 6   | 3.1  | 0.7 | 1.2 | 1.0 | 0.2 | 1.25 | 1.7 | 1.5 | 1.7 | 15.4 | 18.1 | 20.8 | 370   | 544   | 831   | —    | —    | —    |
| 10  | 3.8  | 0.7 | 1.2 | 1.0 | 0.2 | 1.25 | 1.7 | 1.5 | 1.7 | 17.1 | 19.8 | 22.5 | 527   | 720   | 1036  | 286  | 479  | 795  |
| 16  | 4.8  | 0.7 | 1.2 | 1.0 | 0.2 | 1.6  | 1.7 | 1.5 | 1.7 | 19.5 | 22.3 | 25.6 | 778   | 999   | 1509  | 386  | 607  | 1116 |
| 25  | 6.0  | 0.9 | 1.2 | 1.0 | 0.2 | 1.6  | 1.7 | 1.5 | 1.7 | 23.6 | 26.4 | 29.7 | 1161  | 1427  | 2025  | 559  | 825  | 1423 |
| 35  | 7.1  | 0.9 | 1.2 | 1.0 | 0.2 | 1.6  | 1.7 | 1.5 | 1.8 | 26.3 | 29.1 | 32.6 | 1533  | 1828  | 2519  | 690  | 981  | 1658 |
| 50  | 8.4  | 1.0 | 1.2 | 1.0 | 0.2 | 2.0  | 1.7 | 1.6 | 1.9 | 30.1 | 33.0 | 37.3 | 2029  | 2379  | 3410  | 890  | 1235 | 2243 |
| 70  | 10.0 | 1.1 | 1.2 | 1.2 | 0.5 | 2.0  | 1.8 | 1.7 | 2.1 | 30.7 | 35.2 | 38.5 | 2764  | 3443  | 4222  | 1104 | 1739 | 2467 |
| 95  | 11.7 | 1.1 | 1.2 | 1.2 | 0.5 | 2.0  | 1.9 | 2.0 | 2.2 | 35.3 | 40.1 | 43.1 | 3746  | 4551  | 5417  | 1454 | 2212 | 3026 |
| 120 | 13.3 | 1.2 | 1.3 | 1.4 | 0.5 | 2.5  | 2.0 | 2.0 | 2.4 | 38.0 | 43.0 | 47.4 | 4697  | 5578  | 6942  | 1790 | 2624 | 3890 |
| 150 | 14.5 | 1.4 | 1.3 | 1.4 | 0.5 | 2.5  | 2.2 | 2.0 | 2.4 | 43.8 | 48.4 | 52.9 | 5816  | 6785  | 8368  | 2203 | 3126 | 4609 |
| 185 | 16.4 | 1.6 | 1.4 | 1.4 | 0.5 | 2.5  | 2.3 | 2.2 | 2.6 | 48.2 | 53.1 | 57.5 | 7239  | 8342  | 10050 | 2734 | 3791 | 5395 |
| 240 | 18.7 | 1.7 | 1.5 | 1.5 | 0.5 | 2.5  | 2.4 | 2.4 | 2.8 | 53.9 | 59.0 | 63.6 | 9424  | 10676 | 12612 | 3514 | 4718 | 6545 |
| 300 | 20.4 | 1.8 | 1.5 | 1.5 | 0.5 | 2.5  | 2.5 | 2.5 | 3.0 | 61.5 | 66.6 | 71.2 | 11782 | 13205 | 15361 | 4366 | 5742 | 7824 |

**Note:**

- 1) 1.5mm<sup>2</sup> ~ 6mm<sup>2</sup> are normal round stranded conductor, 10mm<sup>2</sup> ~ 800mm<sup>2</sup> are compact round conductor, 1000mm<sup>2</sup> should be compact round segments conductor.
- 2) UnAr: Unarmoured ; AWA: Aluminum Wire Armoured
- 3) Only the halogen free cables shall be generally complied with IEC61034 and 60754.

**(6) 4+1 Cores, Cu or Al / XLPE unarmoured PVC Power Cable;**

**4C+E Cores, Cu or Al / XLPE STA or SWA armored PVC Power Cable;**

| Nominal Cross Section | Approx. Overall Diameter of Conductor | Nominal Thickness of XLPE Insulation | Nominal Cross Section of Earth Conductor | Thickness of PVC Inner Sheath |     | Thickness of Steel Tape or Diameter of Steel Wire |      | Thickness of PVC Outer Sheath |     |     | Approx. Overall Diameter | Approx. Weight Cable |      |      |              |      |     |              |      |    |
|-----------------------|---------------------------------------|--------------------------------------|--|-------------------------------|-----|---|------|-------------------------------|-----|-----|--------------------------|----------------------|------|------|--------------|------|-----|--------------|------|----|
|                       |                                       |                                      |  | STA                           | SWA | STA   | SWA  | UnAr                          | STA | SWA |                          | UnAr                 | STA  | SWA  | Cu Conductor |      |     | Al Conductor |      |    |
|                       |                                       |                                      |  |                               |     |   |      |                               |     |     |                          |                      |      |      | mm           | mm   | mm  | mm           | mm   | mm |
| 1.5                   | 1.6                                   | 0.7                                  | 1.5                                      | 1.2                           | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 12.3                     | 15.1                 | 16.8 | 182  | 324          | 444  | —   | —            | —    |    |
| 2.5                   | 2.0                                   | 0.7                                  | 2.5                                      | 1.2                           | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 13.7                     | 16.4                 | 18.2 | 249  | 404          | 537  | —   | —            | —    |    |
| 4                     | 2.6                                   | 0.7                                  | 4  | 1.2                           | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 15.1                     | 17.9                 | 20.5 | 334  | 506          | 784  | —   | —            | —    |    |
| 6                     | 3.1                                   | 0.7                                  | 6  | 1.2                           | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 16.7                     | 19.5                 | 22.1 | 446  | 635          | 944  | —   | —            | —    |    |
| 10                    | 3.8                                   | 0.7                                  | 10                                       | 1.2                           | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 18.6                     | 21.3                 | 24.0 | 636  | 846          | 1192 | 335 | 545          | 891  |    |
| 16                    | 4.8                                   | 0.7                                  | 16                                       | 1.2                           | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 21.3                     | 24.1                 | 27.4 | 953  | 1194         | 1741 | 463 | 704          | 1251 |    |
| 25                    | 6.0                                   | 0.9                                  | 16                                       | 1.2                           | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 24.9                     | 27.7                 | 31.0 | 1337 | 1618         | 2255 | 621 | 901          | 1539 |    |



# 0.6/1kV Al-Cu XLPE Insulated PVC Sheathed Power Cable

Low Voltage Un-Armoured or SWA/STA Armoured XLPE Power Cable

|     |      |     |     |     |     |     |      |     |     |     |      |      |      |       |       |       |      |      |       |
|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|------|------|------|-------|-------|-------|------|------|-------|
| 35  | 7.1  | 0.9 | 16  | 1.2 | 1.0 | 0.2 | 1.6  | 1.7 | 1.6 | 1.8 | 27.4 | 30.4 | 33.7 | 1709  | 2028  | 2733  | 753  | 1068 | 1759  |
| 50  | 8.4  | 1.0 | 25  | 1.2 | 1.2 | 0.2 | 2.0  | 1.8 | 1.7 | 2.0 | 31.8 | 34.8 | 39.4 | 2313  | 2681  | 3808  | 1009 | 1372 | 2476  |
| 70  | 10.0 | 1.1 | 35  | 1.2 | 1.2 | 0.5 | 2.0  | 2.0 | 1.9 | 2.1 | 33.2 | 37.6 | 40.7 | 3129  | 3857  | 4653  | 1340 | 2127 | 3000  |
| 95  | 11.7 | 1.1 | 50  | 1.3 | 1.2 | 0.5 | 2.0  | 2.1 | 2.0 | 2.3 | 37.6 | 42.2 | 45.2 | 4226  | 5064  | 5975  | 1755 | 2658 | 3616  |
| 120 | 13.3 | 1.2 | 70  | 1.4 | 1.4 | 0.5 | 2.5  | 2.3 | 2.1 | 2.4 | 42.3 | 47.0 | 51.1 | 5402  | 6356  | 7786  | 2244 | 3291 | 4882  |
| 150 | 14.5 | 1.4 | 70  | 1.4 | 1.4 | 0.5 | 2.5  | 2.4 | 2.2 | 2.5 | 45.7 | 50.4 | 54.7 | 6489  | 7515  | 9080  | 2641 | 3779 | 5532  |
| 185 | 16.4 | 1.6 | 95  | 1.5 | 1.5 | 0.5 | 2.5  | 2.5 | 2.4 | 2.7 | 50.6 | 55.5 | 59.9 | 8171  | 9323  | 11084 | 3329 | 4625 | 6592  |
| 240 | 18.7 | 1.7 | 120 | 1.6 | 1.5 | 0.5 | 2.5  | 2.7 | 2.6 | 2.9 | 57.0 | 62.2 | 66.3 | 10599 | 11940 | 13888 | 4233 | 5738 | 7873  |
| 300 | 20.4 | 1.8 | 150 | 1.7 | 1.5 | 0.5 | 3.15 | 2.9 | 2.8 | 3.1 | 63.3 | 68.9 | 74.0 | 13205 | 14742 | 17671 | 5200 | 6914 | 10136 |

- Note:**
- 1) 1.5mm<sup>2</sup> ~ 6mm<sup>2</sup> are normal round stranded conductor, 10mm<sup>2</sup> ~ 800mm<sup>2</sup> are compact round conductor, 1000mm<sup>2</sup> should be compact round segments conductor.
  - 2) UnAr: Unarmoured ; AWA: Aluminum Wire Armoured
  - 3) Only the halogen free cables shall be generally complied with IEC61034 and 60754.

**(7) Five Cores, Cu or Al / XLPE un-armoured PVC Power Cable;**

**Five Cores, Cu or Al / XLPE armoured STA or SWA PVC Power Cable;**

| Nominal Cross Section | Approx. Overall Diameter of Conductor | Nominal Thickness of XLPE Insulation | Thickness of PVC Inner Sheath |     | Thickness of Steel Tape or Diameter of Steel Wire |      | Thickness of PVC Outer Sheath |     |     | Approx. Overall Diameter |      |      | Approx. Weight Cable |       |       |              |       |       |       |
|-----------------------|---------------------------------------|--------------------------------------|-------------------------------|-----|---|------|-------------------------------|-----|-----|--------------------------|------|------|----------------------|-------|-------|--------------|-------|-------|-------|
|                       |                                       |                                      | STA                           | SWA | STA   | SWA  | UnAr                          | STA | SWA | UnAr                     | STA  | SWA  | Cu Conductor         |       |       | Al Conductor |       |       |       |
|                       |                                       |                                      |                               |     |   |      |                               |     |     |                          |      |      | kg/km                | kg/km | kg/km | kg/km        | kg/km | kg/km |       |
| mm <sup>2</sup>       | mm                                    | mm                                   | mm                            | mm  | mm  | mm   | mm                            | mm  | mm  | mm                       | mm   | mm   | kg/km                | kg/km | kg/km | kg/km        | kg/km | kg/km | kg/km |
| 1.5                   | 1.6                                   | 0.7                                  | 1.2                           | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 12.3                     | 15.1 | 16.8 | 182                  | 324   | 444   | —            | —     | —     |       |
| 2.5                   | 2.0                                   | 0.7                                  | 1.2                           | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 13.7                     | 16.4 | 18.2 | 249                  | 404   | 537   | —            | —     | —     |       |
| 4                     | 2.6                                   | 0.7                                  | 1.2                           | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 15.1                     | 17.9 | 20.5 | 334                  | 506   | 784   | —            | —     | —     |       |
| 6                     | 3.1                                   | 0.7                                  | 1.2                           | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 16.7                     | 19.5 | 22.1 | 446                  | 635   | 944   | —            | —     | —     |       |
| 10                    | 3.8                                   | 0.7                                  | 1.2                           | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 18.6                     | 21.3 | 24.0 | 636                  | 846   | 1192  | 335          | 545   | 891   |       |
| 16                    | 4.8                                   | 0.7                                  | 1.2                           | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 21.3                     | 24.1 | 27.4 | 953                  | 1194  | 1741  | 463          | 704   | 1251  |       |
| 25                    | 6.0                                   | 0.9                                  | 1.2                           | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 25.8                     | 28.6 | 31.9 | 1411                 | 1701  | 2366  | 658          | 949   | 1614  |       |
| 35                    | 7.1                                   | 0.9                                  | 1.2                           | 1.0 | 0.2   | 1.6  | 1.7                           | 1.6 | 1.8 | 28.9                     | 31.9 | 35.2 | 1889                 | 2226  | 2954  | 832          | 1163  | 1878  |       |
| 50                    | 8.4                                   | 1.0                                  | 1.2                           | 1.2 | 0.2   | 2.0  | 1.9                           | 1.8 | 2.0 | 33.4                     | 36.4 | 40.9 | 2498                 | 2883  | 4040  | 1110         | 1489  | 2623  |       |
| 70                    | 10.0                                  | 1.1                                  | 1.2                           | 1.2 | 0.5   | 2.0  | 2.0                           | 1.9 | 2.2 | 36.6                     | 41.1 | 44.3 | 3470                 | 4271  | 5184  | 1471         | 2296  | 3211  |       |
| 95                    | 11.7                                  | 1.1                                  | 1.3                           | 1.4 | 0.5   | 2.5  | 2.2                           | 2.0 | 2.3 | 41.3                     | 45.9 | 50.1 | 4706                 | 5621  | 7080  | 1940         | 2883  | 4353  |       |
| 120                   | 13.3                                  | 1.2                                  | 1.4                           | 1.4 | 0.5   | 2.5  | 2.3                           | 2.2 | 2.4 | 45.9                     | 50.8 | 54.9 | 5910                 | 6962  | 8538  | 2426         | 3533  | 5179  |       |
| 150                   | 14.5                                  | 1.4                                  | 1.5                           | 1.4 | 0.5   | 2.5  | 2.4                           | 2.3 | 2.6 | 51.5                     | 56.4 | 60.5 | 7299                 | 8476  | 10212 | 2948         | 4178  | 5981  |       |
| 185                   | 16.4                                  | 1.6                                  | 1.5                           | 1.5 | 0.5   | 2.5  | 2.6                           | 2.5 | 2.8 | 56.5                     | 61.6 | 65.9 | 9097                 | 10407 | 12338 | 3685         | 5084  | 7136  |       |
| 240                   | 18.7                                  | 1.7                                  | 1.6                           | 1.5 | 0.5   | 2.5  | 2.8                           | 2.7 | 3.0 | 63.8                     | 69.2 | 73.2 | 11840                | 13363 | 15505 | 4704         | 6322  | 8574  |       |



# 0.6/1kV Al-Cu XLPE Insulated PVC Sheathed Power Cable

## Low Voltage Un-Armoured or SWA/STA Armored XLPE Power Cable

|     |      |     |     |     |     |      |     |     |     |      |      |      |       |       |       |      |      |       |
|-----|------|-----|-----|-----|-----|------|-----|-----|-----|------|------|------|-------|-------|-------|------|------|-------|
| 300 | 20.4 | 1.8 | 1.7 | 1.7 | 0.5 | 3.15 | 3.0 | 2.9 | 3.2 | 70.7 | 76.3 | 81.7 | 14765 | 16474 | 19793 | 5783 | 7591 | 11067 |
|-----|------|-----|-----|-----|-----|------|-----|-----|-----|------|------|------|-------|-------|-------|------|------|-------|

- Note:**
- 1.5mm<sup>2</sup> ~ 6mm<sup>2</sup> are normal round stranded conductor, 10mm<sup>2</sup> ~ 800mm<sup>2</sup> are compact round conductor, 1000m<sup>2</sup> should be compact round segments conductor.
  - 2) UnAr: Unarmoured ; AWA: Aluminum Wire Armoured
  - 3) Only the halogen free cables shall be generally complied with IEC61034 and 60754.

**(8) 3+2 Cores, Cu or Al / XLPE unarmored PVC Power Cable;**

**3C+2E Cores, Cu or Al / XLPE STA or SWA armored PVC Power Cable;**

| Nominal Cross Section | Approx. Overall Diameter of Conductor | Nominal Thickness of XLPE Insulation | Nominal Cross Section of Earth Conductor | Nominal Thickness of PVC Inner Sheath |     | Thickness of Steel Tape or Diameter of Steel Wire |      | Thickness of PVC Outer Sheath |     |     | Approx. Overall Diameter |      |      | Approx. Weight Cable |       |       |              |       |       |       |
|-----------------------|---------------------------------------|--------------------------------------|--|---------------------------------------|-----|---|------|-------------------------------|-----|-----|--------------------------|------|------|----------------------|-------|-------|--------------|-------|-------|-------|
|                       |                                       |                                      |  | of PVC Inner Sheath                   |     | of Steel Wire                                     |      | of PVC Outer Sheath           |     |     | Approx. Overall Diameter |      |      | Cu Conductor         |       |       | Al Conductor |       |       |       |
|                       |                                       |                                      |  | STA                                   | SWA | STA   | SWA  | UnAr                          | STA | SWA | UnAr                     | STA  | SWA  | UnAr                 | STA   | SWA   | UnAr         | STA   | SWA   | UnAr  |
| mm <sup>2</sup>       | mm                                    | mm                                   | mm                                       | mm                                    | mm  | mm  | mm   | mm                            | mm  | mm  | mm                       | mm   | mm   | kg/km                | kg/km | kg/km | kg/km        | kg/km | kg/km | kg/km |
| 1.5                   | 1.6                                   | 0.7                                  | 1.5                                      | 1.2                                   | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 12.3                     | 15.1 | 16.8 | 182                  | 324   | 444   | —            | —     | —     |       |
| 2.5                   | 2.0                                   | 0.7                                  | 2.5                                      | 1.2                                   | 1.0 | 0.2   | 0.8  | 1.7                           | 1.5 | 1.7 | 13.7                     | 16.4 | 18.2 | 249                  | 404   | 537   | —            | —     | —     |       |
| 4                     | 2.6                                   | 0.7                                  | 4  | 1.2                                   | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 15.1                     | 17.9 | 20.5 | 334                  | 506   | 784   | —            | —     | —     |       |
| 6                     | 3.1                                   | 0.7                                  | 6  | 1.2                                   | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 16.7                     | 19.5 | 22.1 | 446                  | 635   | 944   | —            | —     | —     |       |
| 10                    | 3.8                                   | 0.7                                  | 10                                       | 1.2                                   | 1.0 | 0.2   | 1.25 | 1.7                           | 1.5 | 1.7 | 18.6                     | 21.3 | 24.0 | 636                  | 846   | 1192  | 335          | 545   | 891   |       |
| 16                    | 4.8                                   | 0.7                                  | 16                                       | 1.2                                   | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 21.3                     | 24.1 | 27.4 | 953                  | 1194  | 1741  | 463          | 704   | 1251  |       |
| 25                    | 6.0                                   | 0.9                                  | 16                                       | 1.2                                   | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 24.0                     | 26.8 | 30.1 | 1234                 | 1505  | 2116  | 578          | 849   | 1460  |       |
| 35                    | 7.1                                   | 0.9                                  | 16                                       | 1.2                                   | 1.0 | 0.2   | 1.6  | 1.7                           | 1.5 | 1.7 | 25.9                     | 28.7 | 32.0 | 1506                 | 1797  | 2462  | 679          | 966   | 1617  |       |
| 50                    | 8.4                                   | 1.0                                  | 25                                       | 1.2                                   | 1.0 | 0.2   | 1.6  | 1.8                           | 1.7 | 1.9 | 30.4                     | 33.3 | 36.6 | 2078                 | 2429  | 3200  | 922          | 1269  | 2027  |       |
| 70                    | 10.0                                  | 1.1                                  | 35                                       | 1.2                                   | 1.2 | 0.5   | 2.0  | 1.9                           | 1.8 | 2.0 | 32.3                     | 36.7 | 39.7 | 2817                 | 3527  | 4307  | 1201         | 1950  | 2773  |       |
| 95                    | 11.7                                  | 1.1                                  | 50                                       | 1.2                                   | 1.2 | 0.5   | 2.0  | 2.1                           | 2.0 | 2.2 | 36.6                     | 41.0 | 44.0 | 3813                 | 4611  | 5487  | 1593         | 2436  | 3348  |       |
| 120                   | 13.3                                  | 1.2                                  | 70                                       | 1.3                                   | 1.4 | 0.5   | 2.5  | 2.2                           | 2.0 | 2.4 | 41.9                     | 46.5 | 50.9 | 4967                 | 5894  | 7365  | 2044         | 3027  | 4569  |       |
| 150                   | 14.5                                  | 1.4                                  | 70                                       | 1.4                                   | 1.4 | 0.5   | 2.5  | 2.3                           | 2.1 | 2.4 | 44.7                     | 49.5 | 53.7 | 5764                 | 6773  | 8305  | 2343         | 3418  | 5052  |       |
| 185                   | 16.4                                  | 1.6                                  | 95                                       | 1.5                                   | 1.4 | 0.5   | 2.5  | 2.4                           | 2.3 | 2.6 | 50.0                     | 54.9 | 59.0 | 7353                 | 8496  | 10216 | 2975         | 4199  | 6006  |       |
| 240                   | 18.7                                  | 1.7                                  | 120                                      | 1.5                                   | 1.5 | 0.5   | 2.5  | 2.6                           | 2.5 | 2.8 | 56.2                     | 61.3 | 65.6 | 9461                 | 10763 | 12700 | 3778         | 5171  | 7227  |       |
| 300                   | 20.4                                  | 1.8                                  | 150                                      | 1.6                                   | 1.5 | 0.5   | 2.5  | 2.8                           | 2.6 | 3.0 | 62.7                     | 67.9 | 72.0 | 11766                | 13238 | 15382 | 4632         | 6193  | 8413  |       |

- Note:**
- 1.5mm<sup>2</sup> ~ 6mm<sup>2</sup> are normal round stranded conductor, 10mm<sup>2</sup> ~ 800mm<sup>2</sup> are compact round conductor, 1000m<sup>2</sup> should be compact round segments conductor.
  - 2) UnAr: Unarmoured ; AWA: Aluminum Wire Armoured
  - 3) Only the halogen free cables shall be generally complied with IEC61034 and 60754.