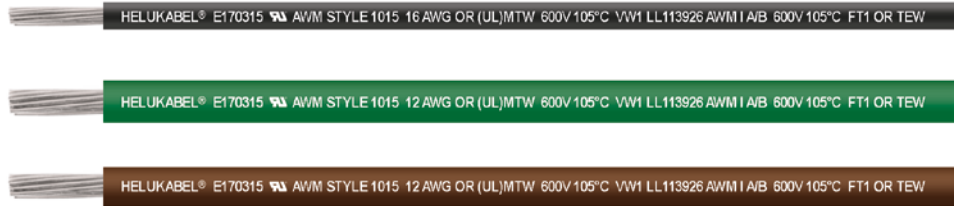


HELUKABEL® SINGLE CORE UL Style 1015



PVC single core, tinned wire, 600 V, 105°C



TECHNICAL DATA

PVC single core acc. to UL-Std. 758 (AWM) Style 1015, CSA-Std. C22.2 No. 210 - AWM I A/B, 24 AWG - 4/0 AWG; CSA-Std. C22.2 No. 127 - TEW, 22 AWG - 500 kcmil; UL-Std. 1063 (MTW)

| | |
|----------------------------------|--|
| Temperature range | flexible -5°C to +105°C fixed -40°C to +105°C |
| Nominal voltage | UL (AWM) AC 600 V UL (MTW) AC 600 V CSA (TEW) AC 600 V |
| Test voltage (spark test) | see table |
| Minimum bending radius | flexible 10x Outer-Ø fixed 5x Outer-Ø |

CABLE STRUCTURE

- Copper wire tinned, AWG sizes
- Core insulation: PVC
- Core identification: see table

PROPERTIES

- largely resistant to: oil, solvents, acids, alkalis
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to UL VW-1, CSA FT1

APPLICATION

For internal wiring of switch cabinets, electrical and electronic devices.

NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only

| AWG-No. | Cross-sec. mm ² , approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. | Spark test, kV | black | green-yellow | blue | brown | red | white | grey |
|-----------|--------------------------------------|---------------------|-----------------|-----------------------|----------------|----------|--------------|----------|----------|----------|----------|----------|
| | | | | | | Part no. | Part no. | Part no. | Part no. | Part no. | Part no. | Part no. |
| 24 | 0.23 | 2.2 | 2.2 | 8.0 | 4 | 60101 | 60113 | 60102 | 60103 | 60104 | 60105 | 60106 |
| 22 | 0.36 | 2.4 | 3.4 | 10.0 | 7.5 | 60201 | 60213 | 60202 | 60203 | 60204 | 60205 | 60206 |
| 20 | 0.56 | 2.6 | 5.4 | 12.0 | 7.5 | 60301 | 60313 | 60302 | 60303 | 60304 | 60305 | 60306 |
| 18 | 0.81 | 2.9 | 7.8 | 16.0 | 7.5 | 60401 | 60413 | 60402 | 60403 | 60404 | 60405 | 60406 |
| 16 | 1.32 | 3.2 | 12.7 | 22.0 | 7.5 | 60501 | 60513 | 60502 | 60503 | 60504 | 60505 | 60506 |
| 14 | 2.08 | 3.5 | 20.0 | 31.0 | 7.5 | 60601 | 60613 | 60602 | 60603 | 60604 | 60605 | 60606 |
| 12 | 3.30 | 4.2 | 31.7 | 45.0 | 7.5 | 60701 | 60713 | 60702 | 60703 | 60704 | 60705 | 60706 |
| 10 | 5.27 | 4.8 | 50.6 | 65.0 | 7.5 | 60801 | 60813 | 60802 | 60803 | 60804 | 60805 | 60806 |
| 8 | 8.51 | 6.5 | 81.7 | 110.0 | 10 | 60901 | 60913 | 60902 | 60903 | 60904 | 60905 | 60906 |
| 6 | 13.50 | 8.2 | 129.6 | 175.0 | 10 | 61001 | 61013 | 61002 | 61003 | 61004 | 61005 | 61006 |
| 4 | 21.40 | 9.9 | 205.4 | 260.0 | 10 | 61101 | 61113 | 61102 | 61103 | 61104 | 61105 | 61106 |
| 3 | 26.92 | 10.7 | 258.4 | 340.0 | 10 | 61201 | 61213 | 61202 | 61203 | 61204 | 61205 | 61206 |
| 2 | 34.10 | 11.5 | 327.4 | 380.0 | 10 | 61301 | 61313 | 61302 | 61303 | 61304 | 61305 | 61306 |
| 1 | 43.07 | 13.3 | 413.5 | 500.0 | 12.5 | 61401 | 61413 | 61402 | 61403 | 61404 | 61405 | 61406 |
| 1/0 | 54.55 | 14.2 | 523.7 | 630.0 | 12.5 | 61501 | 61513 | 61502 | 61503 | 61504 | 61505 | 61506 |
| 2/0 | 68.91 | 15.8 | 661.5 | 781.0 | 12.5 | 61601 | 61613 | 61602 | 61603 | 61604 | 61605 | 61606 |
| 3/0 | 85.73 | 17.5 | 823.0 | 935.0 | 12.5 | 61701 | 61713 | 61702 | 61703 | 61704 | 61705 | 61706 |
| 4/0 | 105.21 | 19.2 | 1010.0 | 1141.0 | 12.5 | 61801 | 61813 | 61802 | 61803 | 61804 | 61805 | 61806 |
| 250 kcmil | 132.48 | 21.7 | 1271.8 | 1449.0 | 15 | 62501 | - | - | - | - | - | - |
| 300 kcmil | 155.86 | 22.7 | 1496.3 | 1668.0 | 15 | 62601 | - | - | - | - | - | - |
| 350 kcmil | 181.30 | 26.3 | 1740.5 | 1893.0 | 15 | 62701 | - | - | - | - | - | - |
| 400 kcmil | 209.20 | 27.2 | 2008.3 | 2213.0 | 15 | 62801 | - | - | - | - | - | - |
| 500 kcmil | 257.00 | 28.3 | 2467.2 | 2618.0 | 15 | 62901 | - | - | - | - | - | - |

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PVC single core, tinned wire, 600 V, 105°C

| AWG-No. | Cross-sec. mm ² , approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. | Spark test, kV | violet | yellow | orange | green | dark blue | pink | beige |
|---------|--|---------------------------|--------------------|-----------------------------|-------------------|----------|----------|----------|----------|-----------|----------|----------|
| | | | | | | Part no. | Part no. | Part no. | Part no. | Part no. | Part no. | Part no. |
| 24 | 0.23 | 2.2 | 2.2 | 8.0 | 4 | 60107 | 60108 | 60109 | 60100 | 60115 | 60111 | 60112 |
| 22 | 0.36 | 2.4 | 3.4 | 10.0 | 7.5 | 60207 | 60208 | 60209 | 60200 | 60215 | 60211 | 60212 |
| 20 | 0.56 | 2.6 | 5.4 | 12.0 | 7.5 | 60307 | 60308 | 60309 | 60300 | 60315 | 60311 | 60312 |
| 18 | 0.81 | 2.9 | 7.8 | 16.0 | 7.5 | 60407 | 60408 | 60409 | 60400 | 60415 | 60411 | 60412 |
| 16 | 1.32 | 3.2 | 12.7 | 22.0 | 7.5 | 60507 | 60508 | 60509 | 60500 | 60515 | 60511 | 60512 |
| 14 | 2.08 | 3.5 | 20.0 | 31.0 | 7.5 | 60607 | 60608 | 60609 | 60600 | 60615 | 60611 | 60612 |
| 12 | 3.30 | 4.2 | 31.7 | 45.0 | 7.5 | 60707 | 60708 | 60709 | 60700 | 60715 | 60711 | 60712 |
| 10 | 5.27 | 4.8 | 50.6 | 65.0 | 7.5 | 60807 | 60808 | 60809 | 60800 | 60815 | 60811 | 60812 |
| 8 | 8.51 | 6.5 | 81.7 | 110.0 | 10 | 60907 | 60908 | 60909 | 60900 | 60915 | 60911 | 60912 |
| 6 | 13.50 | 8.2 | 129.6 | 175.0 | 10 | 61007 | 61008 | 61009 | 61000 | 61015 | 61011 | 61012 |
| 4 | 21.40 | 9.9 | 205.4 | 260.0 | 10 | 61107 | 61108 | 61109 | 61100 | 61115 | 61111 | 61112 |
| 3 | 26.92 | 10.7 | 258.4 | 340.0 | 10 | 61207 | 61208 | 61209 | 61200 | 61215 | 61211 | 61212 |
| 2 | 34.10 | 11.5 | 327.4 | 380.0 | 10 | 61307 | 61308 | 61309 | 61300 | 61315 | 61311 | 61312 |
| 1 | 43.07 | 13.3 | 413.5 | 500.0 | 12.5 | 61407 | 61408 | 61409 | 61400 | 61415 | 61411 | 61412 |
| 1/0 | 54.55 | 14.2 | 523.7 | 630.0 | 12.5 | 61507 | 61508 | 61509 | 61500 | 61515 | 61511 | 61512 |
| 2/0 | 68.91 | 15.8 | 661.5 | 781.0 | 12.5 | 61607 | 61608 | 61609 | 61600 | 61615 | 61611 | 61612 |
| 3/0 | 85.73 | 17.5 | 823.0 | 935.0 | 12.5 | 61707 | 61708 | 61709 | 61700 | 61715 | 61711 | 61712 |
| 4/0 | 105.21 | 19.2 | 1010.0 | 1141.0 | 12.5 | 61807 | 61808 | 61809 | 61800 | 61815 | 61811 | 61812 |

| AWG-No. | Cross-sec. mm ² , approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. | Spark test, kV | transparent | blue-white | white-blue |
|---------|--|---------------------------|--------------------|-----------------------------|-------------------|-------------|------------|------------|
| | | | | | | Part no. | Part no. | Part no. |
| 24 | 0.23 | 2.2 | 2.2 | 8.0 | 4 | 60110 | 60114 | 60127 |
| 22 | 0.36 | 2.4 | 3.4 | 10.0 | 7.5 | 60210 | 60214 | 60227 |
| 20 | 0.56 | 2.6 | 5.4 | 12.0 | 7.5 | 60310 | 60314 | 60327 |
| 18 | 0.81 | 2.9 | 7.8 | 16.0 | 7.5 | 60410 | 60414 | 60427 |
| 16 | 1.32 | 3.2 | 12.7 | 22.0 | 7.5 | 60510 | 60514 | 60527 |
| 14 | 2.08 | 3.5 | 20.0 | 31.0 | 7.5 | 60610 | 60614 | 60627 |
| 12 | 3.30 | 4.2 | 31.7 | 45.0 | 7.5 | 60710 | 60714 | 60727 |
| 10 | 5.27 | 4.8 | 50.6 | 65.0 | 7.5 | 60810 | 60814 | 60827 |
| 8 | 8.51 | 6.5 | 81.7 | 110.0 | 10 | 60910 | 60914 | 60927 |
| 6 | 13.50 | 8.2 | 129.6 | 175.0 | 10 | 61010 | 61014 | - |
| 4 | 21.40 | 9.9 | 205.4 | 260.0 | 10 | 61110 | 61114 | - |
| 3 | 26.92 | 10.7 | 258.4 | 340.0 | 10 | 61210 | 61214 | - |
| 2 | 34.10 | 11.5 | 327.4 | 380.0 | 10 | 61310 | 61314 | - |
| 1 | 43.07 | 13.3 | 413.5 | 500.0 | 12.5 | 61410 | 61414 | - |
| 1/0 | 54.55 | 14.2 | 523.7 | 630.0 | 12.5 | 61510 | 61514 | - |
| 2/0 | 68.91 | 15.8 | 661.5 | 781.0 | 12.5 | 61610 | 61614 | - |
| 3/0 | 85.73 | 17.5 | 823.0 | 935.0 | 12.5 | 61710 | 61714 | - |
| 4/0 | 105.21 | 19.2 | 1010.0 | 1141.0 | 12.5 | 61810 | 61814 | - |

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