

HELUCHAIN® SINGLE 602-HF-J PVC UL/CSA / HELUCHAIN® SINGLE 602-HF-O PVC UL/CSA



HELUCHAIN® SINGLE 602-HF-J PVC 1G16 QMM / 6 AWG E 170315
AWM STYLE 10107 90°C 600V VW-1 AWM I/II A/B 90°C 600V FT1 CE

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TECHNICAL DATA

PVC sheathed single core cable acc. to UL-Std. 758 (AWM) Style 10107, CSA-Std. C22.2 No. 210 - AWM I/II A/B, in alignment with DIN VDE 0285-525-2-31 / DIN EN 50525-2-31

| | |
|---|--|
| Temperature range | flexible -5°C to +90°C fixed -40°C to +90°C |
| Permissible operating temperature of the conductor | +90°C |
| Nominal voltage | VDE AC U ₀ /U 600/1000 V UL (AWM) AC 600 V |
| Test voltage | 4000 V |
| Breakdown voltage | 8000 V |
| Minimum bending radius | flexible 7.5x Outer-Ø fixed 3x Outer-Ø |

CABLE STRUCTURE

- Copper wire bare, extra finely stranded acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Core insulation: Special-PVC acc. to UL-Std. 1581
- Core identification: see table
- G = with protective conductor GN-YE, x = without protective conductor
- Outer sheath: PVC acc. to DIN VDE 0207-5 (compound type YM5), UL-Std. 1581
- Sheath colour: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: UV radiation, weathering effects
- largely resistant to: oil

- for outdoor use
- suitable for use in drag chains
- 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 DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2, UL VW-1, CSA FT1
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2
- certifications and approvals: EAC

APPLICATION

Highly flexible drag chain single core cable for use in dry and damp rooms as well as outdoors; for applications involving free movement, no tensile stress and no forced movement guidance. Suitable for frequent lifting and bending stresses in machine and tool construction and on permanently moving machine parts.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for use in energy supply systems:
 - 1) the assembly instructions must be observed
 - 2) for further application parameters, please refer to the selection tables
 - 3) for special applications, we recommend contacting us and using our data entry form for energy supply systems

Core identification: green-yellow

| Part no. | No. cores x cross-sec. mm ² | AWG, approx. | Outer Ø mm, approx. | Cu factor per km | Weight kg/km, approx. |
|----------|--|--------------|---------------------|------------------|-----------------------|
| 69601 | 1 G 10 | 8 | 9.4 | 96.0 | 180.0 |
| 69603 | 1 G 16 | 6 | 10.5 | 154.0 | 250.0 |
| 69605 | 1 G 25 | 4 | 11.6 | 240.0 | 370.0 |
| 69607 | 1 G 35 | 2 | 14.0 | 336.0 | 490.0 |
| 69609 | 1 G 50 | 1 | 16.6 | 480.0 | 665.0 |
| 69611 | 1 G 70 | 2/0 | 18.4 | 672.0 | 910.0 |
| 69613 | 1 G 95 | 3/0 | 19.6 | 912.0 | 1195.0 |
| 69615 | 1 G 120 | 4/0 | 23.0 | 1152.0 | 1545.0 |
| 69617 | 1 G 150 | 250 kcmil | 25.2 | 1440.0 | 1750.0 |
| 69619 | 1 G 185 | 350 kcmil | 29.0 | 1776.0 | 2320.0 |
| 69621 | 1 G 240 | 450 kcmil | 32.5 | 2304.0 | 2960.0 |
| 69623 | 1 G 300 | 550 kcmil | 36.4 | 2880.0 | 3550.0 |

Core identification: black

| Part no. | No. cores x cross-sec. mm ² | AWG, approx. | Outer Ø mm, approx. | Cu factor per km | Weight kg/km, approx. |
|----------|--|--------------|---------------------|------------------|-----------------------|
| 69602 | 1 x 10 | 8 | 9.4 | 96.0 | 180.0 |
| 69604 | 1 x 16 | 6 | 10.5 | 154.0 | 250.0 |
| 69606 | 1 x 25 | 4 | 11.6 | 240.0 | 370.0 |
| 69608 | 1 x 35 | 2 | 14.0 | 336.0 | 490.0 |
| 69610 | 1 x 50 | 1 | 16.6 | 480.0 | 665.0 |
| 69612 | 1 x 70 | 2/0 | 18.4 | 672.0 | 910.0 |
| 69614 | 1 x 95 | 3/0 | 19.6 | 912.0 | 1195.0 |
| 69616 | 1 x 120 | 4/0 | 23.0 | 1152.0 | 1545.0 |
| 69618 | 1 x 150 | 250 kcmil | 25.2 | 1440.0 | 1750.0 |
| 69620 | 1 x 185 | 350 kcmil | 29.0 | 1776.0 | 2320.0 |
| 69622 | 1 x 240 | 450 kcmil | 32.5 | 2304.0 | 2960.0 |
| 69624 | 1 x 300 | 550 kcmil | 36.4 | 2880.0 | 3550.0 |