

Single 602-RC-CY-J / Single 602-RC-CY-O

600 V, EMC-preferred type



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



HELUKABEL® SINGLE 602-RC-CY-O 1x16 QMM / 6 AWG E 170315 AWM
STYLE 10107 90°C 600V VW-1 AWM I/II A/B 90°C 600V FT1 CE

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
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
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
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: PVC acc. to DIN VDE 0207-5 (compound type YM5), UL-Std. 1581
- Sheath colour: orange (RAL 2003) / acc. to. DESINA
- Length marking: in metres

PROPERTIES

Single 602-RC-CY-J, Core identification: green-yellow

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
69631	1 G 10	8	10.0	130.0	230.0
69633	1 G 16	6	11.1	190.0	300.0
69635	1 G 25	4	12.3	288.0	420.0
69637	1 G 35	2	14.7	405.0	615.0
69639	1 G 50	1	17.2	560.0	825.0
69641	1 G 70	2/0	19.0	780.0	1090.0
69643	1 G 95	3/0	21.2	1030.0	1395.0
69645	1 G 120	4/0	23.6	1285.0	1770.0
69647	1 G 150	250 kcmil	25.8	1570.0	1930.0
69649	1 G 185	350 kcmil	29.8	1940.0	2635.0
69651	1 G 240	450 kcmil	33.5	2530.0	3380.0
69653	1 G 300	550 kcmil	38.0	3140.0	4120.0

- largely resistant to: oil
- 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

APPLICATION

High flexible special single core screened cables for drag chains are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms. These two-norm cables primarily designed for exportorientated machinery manufacturer for flexible applications in machineries, machine tools, robot technics, for movable automated machinery parts. These screened cables are particularly suitable for the interference-free transmission in instrumentation and control engineering applications (electromagnetic compatibility). EMC= Electromagnetic compatibility; to optimize the EMC features we recommend a large round contact of the copper braiding on both ends. RC= Robotics Cable

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

Single 602-RC-CY-O, Core identification: black

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
69632	1 x 10	8	10.0	130.0	230.0
69634	1 x 16	6	11.1	190.0	300.0
69636	1 x 25	4	12.3	288.0	420.0
69638	1 x 35	2	14.7	405.0	615.0
69640	1 x 50	1	17.2	560.0	825.0
69642	1 x 70	2/0	19.0	780.0	1090.0
69644	1 x 95	3/0	21.2	1030.0	1395.0
69646	1 x 120	4/0	23.6	1285.0	1770.0
69648	1 x 150	250 kcmil	25.8	1570.0	1930.0
69650	1 x 185	350 kcmil	29.8	1940.0	2635.0
69652	1 x 240	450 kcmil	33.5	2530.0	3380.0
69654	1 x 300	550 kcmil	38.0	3140.0	4120.0