Single 600-CY-J / Single 600-CY-O

600 V, EMC-preferred type





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 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- 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: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: UV radiation
- largely resistant to: oil, for details, see "Technical Information"
- for outdoor use
- 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

PVC sheathed single core cable suitable for medium mechanical stress with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, as well as outdoors. May not be laid directly in soil or water. This two-standard sheathed single core cables are preferably used in export-oriented mechanical engineering on machine tools, production lines and in plant construction. These copper screened cables are ideally suited for interference-free data signal transmission in measurement and control technology. EMC = Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Single 600-CY-J, Core identification: green-yellow

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
10910	1 G 6	10	7.8	72.0	140.0
10912	1 G 10	8	9.4	130.0	230.0
10914	1 G 16	6	10.4	190.0	300.0
10916	1 G 25	4	12.0	288.0	420.0
10918	1 G 35	2	14.4	405.0	615.0
10920	1 G 50	1	16.4	560.0	825.0
10922	1 G 70	2/0	18.5	780.0	1090.0
10924	1 G 95	3/0	20.1	1030.0	1395.0
10926	1 G 120	4/0	23.0	1285.0	1770.0
10928	1 G 150	250 kcmil	26.1	1570.0	1930.0
10930	1 G 185	350 kcmil	29.3	1940.0	2635.0
10932	1 G 240	450 kcmil	32.2	2530.0	3380.0

Single 600-CY-O, Core identification: black

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
10911	1 x 6	10	7.8	72.0	140.0
10913	1 x 10	8	9.4	130.0	230.0
10915	1 x 16	6	10.4	190.0	300.0
10917	1 x 25	4	12.0	288.0	420.0
10919	1 x 35	2	14.4	405.0	615.0
10921	1 x 50	1	16.4	560.0	825.0
10923	1 x 70	2/0	18.5	780.0	1090.0
10925	1 x 95	3/0	20.1	1030.0	1395.0
10927	1 x 120	4/0	23.0	1285.0	1770.0
10929	1 x 150	250 kcmil	26.1	1570.0	1930.0
10931	1 x 185	350 kcmil	29.3	1940.0	2635.0
10933	1 x 240	450 kcmil	32.2	2530.0	3380.0

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