

Single 600-CY -J/-O special single core cable, Cu-screened, EMC-preferred type



Technical data

- Special PVC control cable according to UL-Style 10107 and CSA AWM I/II A/B, adapted to DIN 0281 part 3, DIN VDE 0281 part 13, to UL-Std. 758
- **Temperature range**
flexing -5°C bis +80°C
fixed installation -40°C bis +80°C
- **Permissible operating temperature**
max. 80°C at conductor
- **Nominal voltage** U₀/U 06/1 kV
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Coupling resistance**
max. 250 Ωm/km
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable construction

- Bare copper, fine wire conductors, to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- 1. Core insulation of special PVC, TI2 to DIN VDE 0281 part 1 and UL-Std. 1581 class 43, colour black or green-yellow
- Tinned copper braided screening, coverage approx. 85%
- 2. Core insulation of special PVC, TM2 to DIN VDE 0281 part 1 and UL Std. 1581 class 43, colour black (RAL 9005)

Properties

- Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B) UL-VW 1
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- Resistant to ultra violet rays

Note

- G = with green-yellow earth core;
x = without green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

PVC Single cores suitable for installation for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms as well as outside (fixed installation). Is not suitable to be used as direct burial-or as underwater cable.

These two norms approved single cores designed for exportorientated machinery manufacturer for machine tools, conveyor belts and production lines. These screened cables are particularly suitable for the interference-free transmission in instrumentation and control engineering applications (electromagnetic compatibility).

EMC = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm²	AWG-no.	Core colour	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
10910	1 G 6	10	green-yellow	7,6	72,0	140,0
10911	1 x 6	10	black	7,6	72,0	140,0
10912	1 G 10	8	green-yellow	9,4	130,0	230,0
10913	1 x 10	8	black	9,4	130,0	230,0
10914	1 G 16	6	green-yellow	10,4	190,0	300,0
10915	1 x 16	6	black	10,4	190,0	300,0
10916	1 G 25	4	green-yellow	12,0	260,0	420,0
10917	1 x 25	4	black	12,0	260,0	420,0
10918	1 G 35	2	green-yellow	14,4	405,0	615,0
10919	1 x 35	2	black	14,4	405,0	615,0
10920	1 G 50	1	green-yellow	16,4	560,0	825,0
10921	1 x 50	1	black	16,4	560,0	825,0

Part No.	No. cores x cross-sec. mm²	AWG-no.	Core colour	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
10922	1 G 70	2/0	green-yellow	17,4	780,0	1090,0
10923	1 x 70	2/0	black	17,4	780,0	1090,0
10924	1 G 95	3/0	green-yellow	20,1	1030,0	1395,0
10925	1 x 95	3/0	black	20,1	1030,0	1395,0
10926	1 G 120	4/0	green-yellow	23,0	1285,0	1770,0
10927	1 x 120	4/0	black	23,0	1285,0	1770,0
10928	1 G 150	300 kcmil	green-yellow	26,1	1430,0	1930,0
10929	1 x 150	300 kcmil	black	26,1	1430,0	1930,0
10930	1 G 185	350 kcmil	green-yellow	29,3	1940,0	2635,0
10931	1 x 185	350 kcmil	black	29,3	1940,0	2635,0
10932	1 G 240	500 kcmil	green-yellow	32,2	2530,0	3380,0
10933	1 x 240	500 kcmil	black	32,2	2530,0	3380,0

Dimensions and specifications may be changed without prior notice.