

# Single 600-J/-O special single core cable, 600 V, meter marking



## Technical data

- Special PVC single core acc. to UL-Style 10107 and CSA AWM I/II A/B, adapted to DIN VDE 0285-525-2-31/ DIN EN 50525-2-31, DIN VDE 0285-525-2-51/ DIN EN 50525-2-51, acc. to UL-Std.758
- **Temperature range**  
flexing -5°C bis +90°C  
fixed installation -40°C bis +90°C
- **Permissible operating temperature**  
max. +90°C at conductor
- **Nominal voltage**  
VDE U<sub>0</sub>/U 600/1000 V  
UL/CSA 600 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**  
min. 20 MΩ x km
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable structure

- Bare copper, fine wire conductors to DIN VDE 0295 cl.5, BS 6360 cl.5 and IEC 60228 cl.5
- Core insulation of special PVC compound type TM2 to DIN VDE 0207-363-3/ DIN EN 50363-3 and class 43 acc. to UL-Std. 1581 colour black or green-yellow
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/ DIN EN 50363-4-1 and class 43 acc. to UL-Std. 1581
- Sheath colour black (RAL 9005)
- with meter marking

## Properties

- Chemical Resistance - see table Technical informations
- ### Tests
- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B), UL VW-1, CSA FT1
  - UV-resistant

## Note

- G = with green-yellow conductor  
x = without green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- screened analogue type:  
**Single 600-CY -J/-O**, confer page 499
- also as 1000 V Style 10678 deliverable

## 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.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG-No.	Core colour	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
10881	1 G 6	10	green-yellow	7,8	58,0	118,0
10882	1 x 6	10	black	7,8	58,0	118,0
10883	1 G 10	8	green-yellow	9,0	96,0	180,0
10884	1 x 10	8	black	9,0	96,0	180,0
10885	1 G 16	6	green-yellow	10,0	154,0	250,0
10886	1 x 16	6	black	10,0	154,0	250,0
10887	1 G 25	4	green-yellow	11,5	240,0	370,0
10888	1 x 25	4	black	11,5	240,0	370,0
10889	1 G 35	2	green-yellow	13,0	336,0	490,0
10890	1 x 35	2	black	13,0	336,0	490,0
10891	1 G 50	1	green-yellow	15,6	480,0	665,0
10892	1 x 50	1	black	15,6	480,0	665,0

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG-No.	Core colour	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
10893	1 G 70	2/0	green-yellow	17,9	672,0	910,0
10894	1 x 70	2/0	black	17,9	672,0	910,0
10895	1 G 95	3/0	green-yellow	19,5	912,0	1195,0
10896	1 x 95	3/0	black	19,5	912,0	1195,0
10897	1 G 120	4/0	green-yellow	22,3	1152,0	1545,0
10898	1 x 120	4/0	black	22,3	1152,0	1545,0
10899	1 G 150	250 kcmil	green-yellow	25,0	1440,0	1750,0
10900	1 x 150	250 kcmil	black	25,0	1440,0	1750,0
10901	1 G 185	350 kcmil	green-yellow	28,6	1776,0	2320,0
10902	1 x 185	350 kcmil	black	28,6	1776,0	2320,0
10903	1 G 240	450 kcmil	green-yellow	31,4	2304,0	2960,0
10904	1 x 240	450 kcmil	black	31,4	2304,0	2960,0

Dimensions and specifications may be changed without prior notice. (RN06)



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUcond PA6-L
- Cable Gland - HELUcond PA6-UL