

Single 602-RC* -J/O special single core cable for drag

chains, 90°C, 600V, meter marking



Technical data

- Special PVC control cable according to UL-Style 10107 and CSA AWM I/II AB, core according to DIN VDE 0281 part 3 (except 300 mm²)
- **Temperature range**
flexing -5°C to +90°C
fixed installation -40°C to +90°C
- **Permissible operating temperature**
max. +90°C at conductor
- **Nominal voltage**
according to UL+CSA 600 V
U₀/U 600/1000 V
- **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 3x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, extra fine wire conductors, to DIN VDE 0295 cl. 6, col. 4, BS 6360 cl. 6 and IEC 60228 cl. 6, however by 185 mm² up to 300 mm² with reduced single wire-Ø, max. 0,30 mm
- 1. Core insulation of special PVC, TI3 to DIN VDE 0281 part 1 and UL-Std. 1581 class 43 90°C, wall-thickness to UL-Style 10107 and DIN VDE 0281 part 3, colour black or green-yellow
- 2. Core insulation (jacket) of special PVC, YM5 to DIN VDE 0207 part 5 and UL-Std. 1581 class 43 90°C, wall-thickness to UL-Style 10107, colour black (RAL 9005)
- with meter marking, change-over in 2009

Properties

- Chemical Resistance - see table Technical Informations
- Resistant to mineral oils, synthetic oils and lubricating coolants.
- PVC self-extinguishing and flame retardant according to 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
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Tests**
According to UL-Style 10107/ UL-Std. 1581, CSA C22.2 No 210
Core according to DIN VDE 0281 part 3 and part 1 (HD 21.3)

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- 300 mm² in adaption to DIN VDE 0281
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- **screened analogue type:**
Single 602-RC*-CY -J/O see page N 102

Application

High flexible special single core 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.

For applications which go beyond standard solutions (for example for composting appliances or high shelf conveyors with extremely high processing speeds etc.) we recommend for our especially developed enquiry sheet for energy guiding systems.

Before installation in cable trays please read the instructions. Further technical details see selection table for drag chain cables, see lead text.

RC = Robotics Cable

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

| Part No. | No. cores x cross-sec. mm ² | AWG-no. | Core colour | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km |
|----------|--|---------|--------------|----------------|---------------------|--------------------|
| 69601 | 1 G 10 | 8 | green-yellow | 9,4 | 96,0 | 180,0 |
| 69602 | 1 x 10 | 8 | black | 9,4 | 96,0 | 180,0 |
| 69603 | 1 G 16 | 6 | green-yellow | 10,5 | 154,0 | 250,0 |
| 69604 | 1 x 16 | 6 | black | 10,5 | 154,0 | 250,0 |
| 69605 | 1 G 25 | 4 | green-yellow | 11,6 | 240,0 | 370,0 |
| 69606 | 1 x 25 | 4 | black | 11,6 | 240,0 | 370,0 |
| 69607 | 1 G 35 | 2 | green-yellow | 14,5 | 336,0 | 490,0 |
| 69608 | 1 x 35 | 2 | black | 14,5 | 336,0 | 490,0 |
| 69609 | 1 G 50 | 1 | green-yellow | 16,6 | 480,0 | 665,0 |
| 69610 | 1 x 50 | 1 | black | 16,6 | 480,0 | 665,0 |
| 69611 | 1 G 70 | 2/0 | green-yellow | 18,0 | 672,0 | 910,0 |
| 69612 | 1 x 70 | 2/0 | black | 18,0 | 672,0 | 910,0 |

| Part No. | No. cores x cross-sec. mm ² | AWG-no. | Core colour | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km |
|----------|--|-----------|--------------|----------------|---------------------|--------------------|
| 69613 | 1 G 95 | 3/0 | green-yellow | 20,5 | 912,0 | 1195,0 |
| 69614 | 1 x 95 | 3/0 | black | 20,5 | 912,0 | 1195,0 |
| 69615 | 1 G 120 | 4/0 | green-yellow | 23,0 | 1152,0 | 1545,0 |
| 69616 | 1 x 120 | 4/0 | black | 23,0 | 1152,0 | 1545,0 |
| 69617 | 1 G 150 | 300 kcmil | green-yellow | 25,2 | 1440,0 | 1750,0 |
| 69618 | 1 x 150 | 300 kcmil | black | 25,2 | 1440,0 | 1750,0 |
| 69619 | 1 G 185 | 350 kcmil | green-yellow | 29,0 | 1776,0 | 2320,0 |
| 69620 | 1 x 185 | 350 kcmil | black | 29,0 | 1776,0 | 2320,0 |
| 69621 | 1 G 240 | 500 kcmil | green-yellow | 32,5 | 2304,0 | 2960,0 |
| 69622 | 1 x 240 | 500 kcmil | black | 32,5 | 2304,0 | 2960,0 |
| 69623 | 1 G 300 | 600 kcmil | green-yellow | 36,4 | 2880,0 | 3550,0 |
| 69624 | 1 x 300 | 600 kcmil | black | 36,4 | 2880,0 | 3550,0 |

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