

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

chains, 90°C, 600V



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 construction

- 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)

Properties

- Chemical Resistance - see table Technical Informations
- Resistant to mineral oils, synthetic oils and lubricating coolants.
- 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
- **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.

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 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
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. mm²	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	250 kcmil	green-yellow	25,2	1440,0	1750,0
69618	1 x 150	250 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	450 kcmil	green-yellow	32,5	2304,0	2960,0
69622	1 x 240	450 kcmil	black	32,5	2304,0	2960,0
69623	1 G 300	550 kcmil	green-yellow	35,4	2880,0	3550,0
69624	1 x 300	550 kcmil	black	35,4	2880,0	3550,0

Dimensions and specifications may be changed without prior notice.