

# Single 602-RC -J/O special single core cable for drag chains, 90°C, 600 V, meter marking



## Technical data

- Special PVC single core acc. to UL-Style 10107 and CSA AWM I/II AB, core acc. to DIN VDE 0285-525-2-31/ DIN EN 50525-2-31 (except 300 mm<sup>2</sup>)
- **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** 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 MOhm x km
- **Minimum bending radius** flexing 7,5x cable Ø fixed installation 3x cable Ø
- **Radiation resistance** up to 80x10<sup>6</sup> 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 mm<sup>2</sup> up to 300 mm<sup>2</sup> with reduced single wire-Ø, max. 0,30 mm
- Core insulation of special PVC compound type T13 to DIN VDE 0207-363-3 / DIN EN 50363-3 and class 43, 90°C acc. to UL-Std.1581 colour black or green-yellow
- Outer sheath special PVC compound type YM5 to DIN VDE 0207 part 5 and class 43, 90°C acc. to UL-Std.1581
- Sheath colour black (RAL 9005)
- with meter marking

## Properties

- Chemical Resistance - see table Technical Informations
- Resistant to mineral oils, synthetic oils and lubricating coolants.
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## 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
- Acc.to UL-Style 10107/ UL-Std.1581, CSA C22.2 No 210

## Note

- G = with green-yellow conductor x = without green-yellow conductor (OZ)
- 300 mm<sup>2</sup> in adaption
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- screened analogue type: **Single 602-RC-CY-J/O**, confer page 502

## Application

High flexible special single core cable 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/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
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	18,4	672,0	910,0
69612	1 x 70	2/0	black	18,4	672,0	910,0

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
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. (RN06)



Suitable accessories can be found in Chapter X.

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