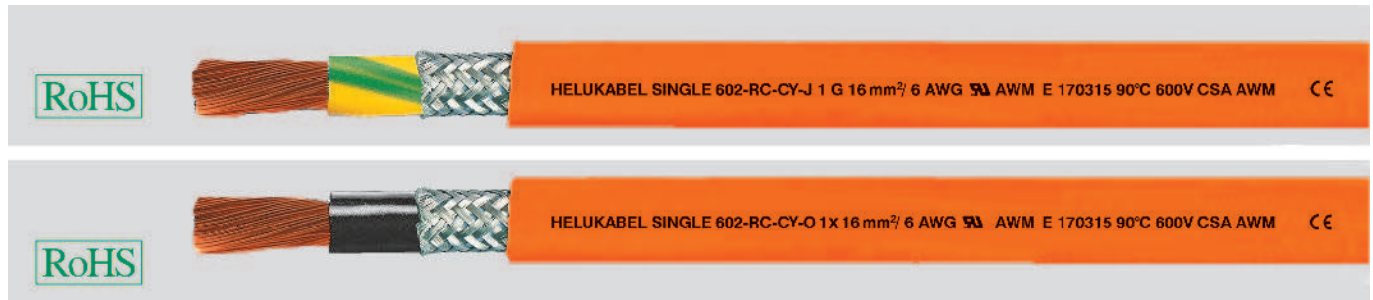


# Single 602-RC\* -CY -J/O special single core cable

for drag chains, 90°C, 600V, EMC-preferred type



## Technical data

- Special PVC control cable according to UL-Style 10107 and CSA AWM I/II A/B, 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  
U<sub>0</sub>/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
- **Coupling resistance**  
max. 250 Ωm/km
- **Radiation resistance**  
up to 80x10<sup>6</sup> 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
- Tinned copper braided screening, coverage approx. 80%
- 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 orange (RAL 2003)

## 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 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.
- **DESINA®**: **DE**centralised and **ST**andardised **IN**stallation is a recommendation from VDW, the German toolmakers association, for harmonisation of components, interfaces and connecting systems.

## Application

High flexible special single core screened 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. These screened cables are particularly suitable for the interference-free transmission in instrumentation and control engineering applications (electromagnetic compatibility). For applications which go beyond standard solutions 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.

**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.

**RC** = Robotics Cable

Part No.	No. cores x cross-sec. mm²	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
69631	1 G 10	8	10,0	130,0	230,0
69632	1 x 10	8	10,0	130,0	230,0
69633	1 G 16	6	11,1	190,0	300,0
69634	1 x 16	6	11,1	190,0	300,0
69635	1 G 25	4	12,3	260,0	420,0
69636	1 x 25	4	12,3	260,0	420,0
69637	1 G 35	2	15,1	405,0	615,0
69638	1 x 35	2	15,1	405,0	615,0
69639	1 G 50	1	17,2	560,0	825,0
69640	1 x 50	1	17,2	560,0	825,0
69641	1 G 70	2/0	19,0	780,0	1090,0
69642	1 x 70	2/0	19,0	780,0	1090,0

Part No.	No. cores x cross-sec. mm²	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
69643	1 G 95	3/0	22,0	1030,0	1395,0
69644	1 x 95	3/0	22,0	1030,0	1395,0
69645	1 G 120	4/0	23,6	1285,0	1770,0
69646	1 x 120	4/0	23,6	1285,0	1770,0
69647	1 G 150	250 kcmil	25,8	1430,0	1930,0
69648	1 x 150	250 kcmil	25,8	1430,0	1930,0
69649	1 G 185	350 kcmil	29,8	1940,0	2635,0
69650	1 x 185	350 kcmil	29,8	1940,0	2635,0
69651	1 G 240	450 kcmil	33,5	2530,0	3380,0
69652	1 x 240	450 kcmil	33,5	2530,0	3380,0
69653	1 G 300	550 kcmil	36,2	3140,0	4120,0
69654	1 x 300	550 kcmil	36,2	3140,0	4120,0

Dimensions and specifications may be changed without prior notice.