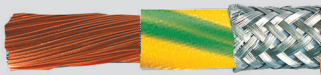
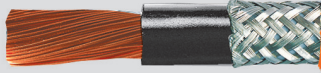


Single 602-RC -CY -J/O special single core cable

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



HELUKABEL SINGLE 602-RC-CY-J 1 G 16 mm²/ 6 AWG E170350 AWM STYLE 10107
90°C 600V VW1 cUL AWM I/II A/B 90°C 600V FT1



HELUKABEL SINGLE 602-RC-CY-O 1 x 16 mm²/ 6 AWG E170350 AWM STYLE 10107
90°C 600V VW1 cUL AWM I/II A/B 90°C 600V FT1



Technical data

- Special PVC single core cable acc. to UL-Style 10107 and CSA AWM I/II A/B, core acc. to DIN VDE 0285-525-2-31 / DIN EN 50525-2-31 (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**
VDE U₀/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
- **Coupling resistance**
max. 250 Ohm/km
- **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
- Core insulation of special PVC compound type TI3 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
- Tinned copper braided screening, coverage approx. 80%
- 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 mm² in adaption
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- non screened analogue type:
Single 602-RC-J/O

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 optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

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 ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. 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. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. 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	1570,0	1930,0
69648	1 x 150	250 kcmil	25,8	1570,0	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. (RN06)