

# TRAYCONTROL 600-C flexible, oil-resistant, screened, EMC-preferred type, open installation (TC-ER), NFPA 79 Edition 2007



HELUKABEL ® TRAYCONTROL 600-C P/N 63069 12 AWG (3.31mm<sup>2</sup>)/4C (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I E330430 OR MTW "FLEXING" OR WTTC 1000V OR c(UL) CIC-TC PVC/N FT4 --- LL41103 CSA AWM I/II A/B 90C 600V FT4 CE ROHS



## Technical data

- PVC power cable according to UL 1277
- **Temperature range**  
UL / CSA TC -40 °C to +90 °C  
UL / AWM -40 °C to +90 °C
- **Nominal voltage**  
TC 600 V  
AWM 1000 V  
WTTC 1000 V
- **Test voltage**  
3000 V
- **Coupling resistance**  
max. 250 Ohm/km
- **Minimum bending radius**  
approx. 6x cable ø
- **Insulation resistance**  
Min. 20 MOhm x km
- **Radiation resistance**  
Up to 80x106 cJ/kg (up to 80 Mrad)

## Cable structure

- Bare copper conductor, fine wire stranded with AWG dimensions
- Special PVC core insulation with transparent nylon skin
- Black cores with continuous white numbering
- Green-yellow earth core in the outer layer, 3 cores and more
- Cores stranded in layers with optimal lay-lengths
- Separating foil
- Braided screening of tinned copper wires, coverage approx. 85%
- Separator
- Special PVC outer jacket
- Sheath colour - black (RAL 9005)
- With length marking in feet

## Properties

- Self-extinguishing and flame retardant material in accordance with CSA FT4
- The materials used in manufacture are free of silicone, cadmium and substances that impair paint wetting
- UV-resistant
- **Tests**  
**UL:**  
TC-ER, PLTC-ER (AWG 18 - AWG 12), ITC-ER (AWG 18 - AWG 12), UL 1277, UL Type WTTC, UL Type MTW  
NFPA 79 2007, Oil Res I (Oil Res II also available), 90 °C dry / 75 °C wet  
**CSA:**  
c (UL) CIC-TC FT4,  
CSA AWM I/II A/B FT4

## Note

- G = with green-yellow earth core
- X = without earth core (OZ)

## Advantages

- TC-ER, Tray Cable Exposed Run
- Simple installation
- Outstanding flexibility

## Application

USA NFPA 79, Edition 2007 compliant, screened, flexible power cable to 600 V (WTTC 1000 V), for all tool and plant construction machinery, suitable for installation in dry, damp and wet environments, outdoors and in pipes. For underground installation and for open, unprotected installation from the cable tray to the machine and industrial plants.

**EMC** = Electromagnetic compatibility. To optimise EMC characteristics, we recommend a large contact area for the copper braiding around the entire circumference on both ends.

CE = The product conforms to the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
63049	3 G 1	18	8,2	31,0	118,0
63050	4 G 1	18	8,8	52,0	136,0
63051	5 G 1	18	9,4	62,0	149,0
63052	7 G 1	18	10,1	83,0	193,0
63053	12 G 1	18	12,9	143,0	328,0
63054	18 G 1	18	15,7	207,0	431,0
63055	25 G 1	18	17,7	284,0	569,0
62997	3 G 1,32	16	8,9	57,0	144,0
63056	4 G 1,32	16	9,6	72,0	172,0
63057	5 G 1,32	16	10,3	84,0	186,0
63058	7 G 1,32	16	11,3	124,0	243,0
63059	12 G 1,32	16	15,1	199,0	421,0
63060	18 G 1,32	16	17,3	290,0	510,0
63061	25 G 1,32	16	19,6	384,0	704,0
63062	3 G 2,08	14	9,8	85,0	178,0
63063	4 G 2,08	14	10,7	115,0	220,0

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
63064	5 G 2,08	14	11,6	139,0	264,0
63065	7 G 2,08	14	12,5	185,0	325,0
63066	12 G 2,08	14	16,9	309,0	591,0
63067	18 G 2,08	14	19,5	448,0	780,0
63068	25 G 2,08	14	23,3	632,0	1041,0
63069	4 G 3,31	12	12,5	179,0	313,0
63070	5 G 3,31	12	14,4	223,0	384,0
63071	7 G 3,31	12	15,5	298,0	492,0
63072	4 G 6	10	15,5	256,0	547,0
63073	5 G 6	10	16,8	312,0	608,0
63074	7 G 6	10	18,2	430,0	850,0
63075	4 G 10	8	18,7	426,0	851,0
63076	4 G 16	6	23,3	657,0	1197,0
63077	4 G 25	4	28,6	1026,0	1970,0
63078	4 G 35	2	33,2	1412,0	2874,0

Dimensions and specifications may be changed without prior notice. (RN01)