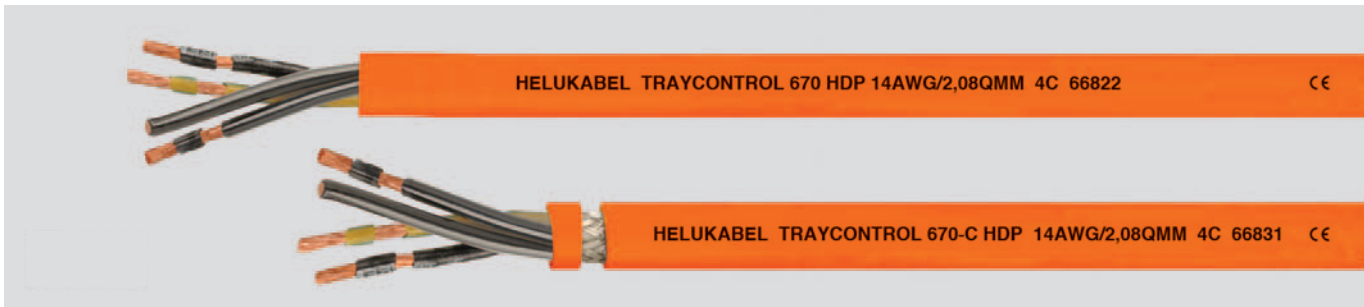


TRAYCONTROL® 670 HDP / 670-C HDP

flexible, oil-resistant, exposed run TC-ER, NFPA 79

Technical data

- TPE motor supply cable acc. to UL Std. 1277 and 2277
- **Temperature range**
UL/CSA TC -40°C to +90°C
flexing +5°C to +50°C
static -40°C to +105°C
- **Nominal voltage**
UL/CSA TC 600 V
UL WTTC/CSA 1000 V
- **Test voltage** 4000 V
- **Minimum bending radius**
flexing 5x cable Ø
flexing 6x cable Ø (-C type)
- **Coupling resistance (-C type)**
max. 250 Ohm/km

Cable structure

- Finely stranded (Cl. K), bare copper acc. to AWG standards
- Special PVC conductor insulation with transparent nylon coating
- Conductor identification to DIN VDE 0293 black conductors with continuous white numbering
- GN-YE conductor in the outer layer
- Conductors stranded in layers with optimal lay length
- Separator
- Special TPE outer jacket
- Orange (RAL 2003) jacket
- With length marking in feet
- **-C Type**
- Braided, tinned copper shield, approx. 85% coverage

Properties

- Self-extinguishing and flame retardant acc. to CSA FT4
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers
- UV-resistant
- Direct burial rated
- Resistant to cleaning and disinfecting agents acc. to ECOLAB®

Tests

- **UL:**
TC-ER (1277), WTTC (2277), Bus Drop, NFPA 79, Class I Div. 2 per NEC Art. 501, NEC Art. 336 & 318, Oil Res I/II, 90°C Dry/Wet
- **CSA:**
C22.2 No. 230 & 239 - c(UL) CIC-TC FT4 (18-4/0 AWG), C22.2 No. 210 - AWM I/II A/B FT4

Note

- HDP = Heavy Duty Power

Application

TRAYCONTROL® 670 HDP / 670-C HDP are multi-conductor, heavy duty motor supply cables with Bus Drop, TC-ER and CIC-TC approvals. Superior oil resistance (Oil Res I/II) ensures a long cable life and Class I Div. 2 per NEC 501 permits use in hazardous (classified) locations. A special extruded jacket and fine copper stranding provide excellent flexibility, which makes it easier to pull than standard tray cables. Suitable for installation in cable trays or pipes, open, unprotected exposed runs from the tray to the machines according to NFPA 79, and direct burial.

Recommended applications: connecting motors in environments with industrial automated equipment, machine tools, and industries such as automotive and renewable energy.

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

TRAYCONTROL® 670 HDP

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cu factor per km	Weight app. kg / km
66820	0,963	4 x 18	8,2	35,9	101,0
66821	1,31	4 x 16	8,8	49,3	118,0
66822	2,08	4 x 14	10,1	75,6	137,0
66823	3,31	4 x 12	11,2	125,2	223,0
66824	5,26	4 x 10	14,5	200,2	357,0
66825	8,37	4 x 8	19,2	311,8	573,0
66826	13,3	4 x 6	22,3	504,9	859,0
66827	21,2	4 x 4	26,9	800,3	1251,0
66828	33,6	4 x 2	31,4	1259,4	1897,0
710006	53,5	4 x 1/0	36,0	1973,3	2749,0
710007	67,4	4 x 2/0	38,8	2519,8	3408,0
710008	84,7	4 x 3/0	41,6	3157,3	4122,0
710009	107,0	4 x 4/0	47,1	3977,0	5246,0
710010	127,0	4 x 250 kcmil	53,1	4616,0	6213,0
710011	151,0	4 x 300 kcmil	55,9	5598,2	7351,0
710012	175,0	4 x 350 kcmil	59,6	6478,6	8393,0
710013	202,0	4 x 400 kcmil	63,6	7431,7	9516,0
710014	256,0	4 x 500 kcmil	71,9	9289,7	11935,0

TRAYCONTROL® 670-C HDP

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cu factor per km	Weight app. kg / km
66829	0,963	4 x 18	8,9	56,3	122,0
66830	1,31	4 x 16	9,5	71,0	144,0
66831	2,08	4 x 14	10,7	103,1	190,0
66832	3,31	4 x 12	11,8	156,3	257,0
66833	5,26	4 x 10	15,2	247,9	412,0
66834	8,37	4 x 8	19,8	386,3	641,0
66835	13,3	4 x 6	23,3	598,7	949,0
66836	21,2	4 x 4	27,9	921,0	1424,0
66837	33,6	4 x 2	32,3	1400,4	2013,0
11009730	53,5	4 x 1/0	36,9	2248,9	2991,0
11009731	67,4	4 x 2/0	39,6	2814,9	3668,0
11009732	84,7	4 x 3/0	42,4	3471,7	4405,0
11009733	107,0	4 x 4/0	47,9	4319,5	5551,0
11009734	127,0	4 x 250 kcmil	53,9	4999,5	6563,0
11009735	151,0	4 x 300 kcmil	56,7	6002,7	7723,0
11009736	175,0	4 x 350 kcmil	60,4	6760,1	8795,0
11009737	202,0	4 x 400 kcmil	65,9	7890,2	10186,0
11009738	256,0	4 x 500 kcmil	72,7	9795,8	12411,0

Dimensions and specifications may be changed without prior notice.



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-E