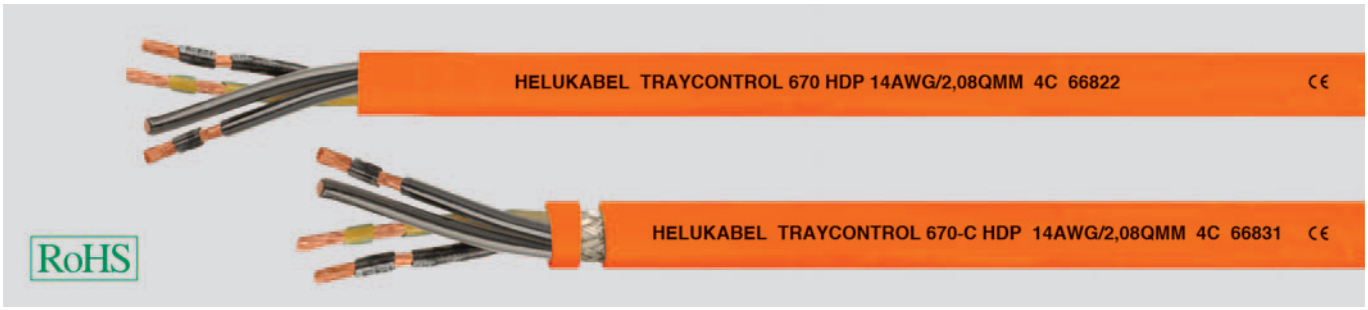
TRAYCONTROL® 670 HDP / 670-C HDP flexible, oil-resistant, open installation (TC-ER), NFPA 79 Edition 2012



Technical data

- TPE motor supply cable acc. to UL-Std.1277 and UL-Std.2277
- **Temperature range**
  flexing -40°C bis +105°C
- **Nominal voltage**
  TC 600 V
  AWM 1000 V
  TC Wind Turbine (WTTC) 1000 V
- **Test voltage** 4000 V
- **Minimum bending radius**
  7,5 cable Ø
- **Coupling resistance (-C-type)**
  max. 250 Ohm/km

Cable structure

- Bare copper-conductor, fine-wire with AWG dimensions
- Core insulation of special PVC with transparent nylon skin
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor in the outer layer
- Cores stranded in layers with optimal lay-length
- Separator
- Outer sheath of special TPE
- Sheath colour orange (RAL 2003)
- with length marking in feet
- **C-Type**
  Screening with braid of tinned copper wires, optimal coverage, approx. 85%

Properties

- self-extinguishing and flame retardant acc. to CSA FT4
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- **UL:**
  TC-ER, WTTC, MTW, NFPA 79 2012, UL AWM 105°C, OIL RES I & II, 75° C wet Bus Drop Cable, Class 1 Div. 2 per NEC Art. 336, 318, 501
- **CSA:**
  c (UL) CIC-TC FT4, AWM I/II A/B FT4

Note

- HDP = Heavy Duty Power

Application

HELUKABEL® TRAYCONTROL® 670 HDP / 670-C-HDP are multi-conductor severe duty motor supply cables with Bus Drop, TC-ER and CIC/TC approval. Superior oil performance for long cable life and permitted to be used in hazardous (classified) locations Class I Div 2 per NEC 336, 318 and 501. Special extruded sheath and fine copper stranding approved for exposed run, pipes and burial installation. Excellent flexibility and easier to pull than standard tray cables. Suitable for installation in the open unprotected installation on cable tray and from cable tray to machines according to NFPA 79 edition 2012.
Recommended Applications: Motor connections in industrial and automation environments, machine tool, automotive and renewable energies.
CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

TRAYCONTROL® 670 HDP

Part no.	No.cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
66820	4 x 1	18	8,4	39,0	103,0
66821	4 G 1,32	16	9,2	51,0	133,0
66822	4 G 2,08	14	10,0	80,0	170,0
66823	4 G 3,31	12	11,2	127,0	229,0
66824	4 G 6	10	15,2	230,0	393,0
66825	4 G 10	8	19,3	384,0	626,0
66826	4 G 16	6	22,4	614,0	885,0
66827	4 G 25	4	26,7	960,0	1301,0
66828	4 G 35	2	31,5	1344,0	1983,0
710006	4 G 50	1/0	34,9	1974,0	2855,0
710007	4 G 70	2/0	38,0	2485,0	3495,0
710008	4 G 95	3/0	41,0	3132,0	4268,0
710009	4 G 120	4/0	47,4	3982,0	5489,0
710010	4 G 130	250 kcmil	51,8	4630,0	6442,0
710011	4 G 150	300 kcmil	54,5	5554,0	7510,0
710012	4 G 185	350 kcmil	57,9	6535,0	8697,0
710013	4 G 200	400 kcmil	59,7	7405,0	9660,0
710014	4 G 240	500 kcmil	65,2	9240,0	11850,0

TRAYCONTROL® 670-C HDP

Part no.	No.cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
66829	4 x 1	18	9,8	52,0	133,0
66830	4 G 1,32	16	10,5	72,0	159,0
66831	4 G 2,08	14	11,7	115,0	222,0
66832	4 G 3,31	12	12,8	179,0	283,0
66833	4 G 6	10	16,9	256,0	460,0
66834	4 G 10	8	22,1	426,0	741,0
66835	4 G 16	6	26,2	657,0	1059,0
66836	4 G 25	4	30,8	1026,0	1497,0
66837	4 G 35	2	35,0	1412,0	2058,0

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

Suitable accessories can be found in Chapter X.

• Cable Gland - HELUTOP® HT-E