

TRAYCONTROL 300-C TP stranded pair, flexible, screened, oil-resistant, EMC-preferred type, NFPA 79 Edition 2007



new



Technical data

- Flexible screened PVC data and control cable
- **Temperature range**
-25 °C to +105 °C
- **Nominal voltage** 300 V
- **Test voltage** 2000 V
- **Minimum bending radius**
Flexing 6x cable ø
- **Coupling resistance**
max. 250 Ohm/km

Cable structure

- Tinned copper conductor, fine wire stranded, with AWG measures
- Special PVC core insulation (AWG 22 - AWG 18 with transparent nylon skin)
- Pair identification according to international colour code
- Cores stranded in pairs with optimal lay-length
- Pairs stranded in layers with optimal lay-length
- 1. Screening with special aluminium foil
- 2. Screening with braid of tinned copper wires, optimal coverage, approx. 85%
- Separator
- Special PVC outer sheath
- Sheath colour - grey (RAL 7001)
- With length marking in feet

Properties

- Self-extinguishing and flame retardant in accordance with CSA FT4
- The materials used in manufacture are free of silicone, cadmium and substances that impair paint wetting

Tests

UL (AWG 22 - AWG 18): PLTC-ER, ITC-ER, CM, NFPA 79 2007, OIL RES I & II, Class I Div. 2, NEC Art. 501, 725, 760 & 800, AWM 2464

UL (AWG 24 - AWG 26): CM, AWM 2464, rated OIL RES I & II, NEC Art. 725, 760 & 800, NFPA 79 2007

CSA: CSA CMG FT4, AWM I/II A/B

Note

Advantages

- Highly-flexible, easy to install
- Oil-resistant to OIL RES I & II

Available on request

- PUR or TPE outer sheath
- Sheath colour to suit customer requirement

Application

HELUKABEL® TRAYCONTROL 300 is a screened, stranded pair data and control cable. Cross-sections with PLTC-ER and ITC-ER approval suitable for open, unprotected installation in cable trays to the machine; their outstanding oil resistance (OIL RES I & II) makes them ideally suited as connecting and joining cables and also for control, signal and measuring systems in industrial plants. The flexible cable structure facilitates installation inside and outside of machines and switch cabinets. The double-screening with aluminium foil (100% coverage) and copper braid (approx. 85% coverage) guarantee superior EMC protection.

Applications: tool machines, control panels, measuring devices, production automation, cable ducts, renewable energies.

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 EG Low-Voltage Directive 2006/95/EG

Part no.	No.pairs x no.cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
59760	2 x 2 x 0,14	26	5,6	20,0	39,0
59761	3 x 2 x 0,14	26	5,8	24,0	47,0
59762	4 x 2 x 0,14	26	6,3	27,0	55,0
59763	5 x 2 x 0,14	26	6,7	31,0	68,0
59764	6 x 2 x 0,14	26	7,3	50,0	86,0
59765	7 x 2 x 0,14	26	7,4	52,0	92,0
59766	8 x 2 x 0,14	26	7,8	54,0	97,0
59767	10 x 2 x 0,14	26	9,1	60,0	111,0
59768	12 x 2 x 0,14	26	9,8	67,0	141,0
59769	14 x 2 x 0,14	26	10,5	75,0	150,0
59770	15 x 2 x 0,14	26	11,1	77,0	154,0
59771	16 x 2 x 0,14	26	11,2	80,0	155,0
59772	18 x 2 x 0,14	26	11,8	84,0	170,0
59773	20 x 2 x 0,14	26	12,4	98,0	183,0
59774	22 x 2 x 0,14	26	13,1	104,0	207,0
59775	24 x 2 x 0,14	26	13,6	112,0	228,0
59776	25 x 2 x 0,14	26	15,1	114,0	239,0
59777	1 x 2 x 0,25	24	4,6	16,0	46,0
59778	2 x 2 x 0,25	24	6,6	27,0	53,0
59779	3 x 2 x 0,25	24	6,9	32,0	65,0
59780	4 x 2 x 0,25	26	7,5	37,0	79,0
59781	5 x 2 x 0,25	24	8,0	55,0	98,0
59782	6 x 2 x 0,25	24	8,8	66,0	114,0
59783	7 x 2 x 0,25	24	8,9	60,0	121,0
59784	8 x 2 x 0,25	24	9,7	74,0	129,0

Part no.	No.pairs x no.cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
59785	10 x 2 x 0,25	24	11,4	109,0	152,0
59786	12 x 2 x 0,25	24	11,8	116,0	189,0
59787	14 x 2 x 0,25	24	12,6	121,0	213,0
59788	15 x 2 x 0,25	24	12,8	132,0	225,0
59789	16 x 2 x 0,25	24	12,9	142,0	227,0
59790	18 x 2 x 0,25	24	13,8	147,0	238,0
59791	20 x 2 x 0,25	24	14,4	161,0	270,0
59792	22 x 2 x 0,25	24	15,3	171,0	300,0
59793	24 x 2 x 0,25	24	16,4	230,0	321,0
59794	25 x 2 x 0,25	24	16,7	231,0	340,0
59795	1 x 2 x 0,34	22	4,9	17,0	58,0
59796	2 x 2 x 0,34	22	7,1	37,0	65,0
59797	3 x 2 x 0,34	22	7,7	45,0	79,0
59798	4 x 2 x 0,34	22	8,4	54,0	88,0
59799	5 x 2 x 0,34	22	9,0	63,0	110,0
59800	6 x 2 x 0,34	22	9,6	73,0	126,0
59801	7 x 2 x 0,34	22	9,7	79,0	140,0
59802	8 x 2 x 0,34	22	10,7	88,0	148,0
59803	10 x 2 x 0,34	22	12,7	107,0	184,0
59804	12 x 2 x 0,34	22	13,2	122,0	210,0
59805	14 x 2 x 0,34	22	13,9	138,0	241,0
59806	15 x 2 x 0,34	22	14,1	154,0	245,0
59807	16 x 2 x 0,34	22	14,2	161,0	251,0
59808	18 x 2 x 0,34	22	15,3	198,0	275,0
59809	20 x 2 x 0,34	22	15,9	211,0	300,0
59810	22 x 2 x 0,34	22	16,8	218,0	320,0

Continuation ►

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Part no.	No.pairs x no.cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
59811	24 x 2 x 0,34	22	18,0	230,0	371,0
59812	25 x 2 x 0,34	22	18,3	239,0	402,0
59813	1 x 2 x 0,75	20	5,9	26,0	70,0
59814	2 x 2 x 0,75	20	9,4	56,0	89,0
59815	3 x 2 x 0,75	20	10,5	72,0	102,0
59816	4 x 2 x 0,75	20	11,5	92,0	119,0
59817	5 x 2 x 0,75	20	12,6	107,0	140,0
59818	6 x 2 x 0,75	20	13,3	122,0	162,0
59819	7 x 2 x 0,75	20	13,4	132,0	198,0
59820	8 x 2 x 0,75	20	16,8	144,0	272,0
59821	10 x 2 x 0,75	20	17,5	180,0	307,0
59822	12 x 2 x 0,75	20	18,0	202,0	318,0
59823	14 x 2 x 0,75	20	19,1	221,0	342,0

Part no.	No.pairs x no.cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
59824	15 x 2 x 0,75	20	19,4	232,0	381,0
59825	16 x 2 x 0,75	20	19,5	257,0	417,0
59826	18 x 2 x 0,75	20	20,5	282,0	494,0
59827	20 x 2 x 0,75	20	21,5	307,0	570,0
59828	22 x 2 x 0,75	20	22,6	322,0	643,0
59829	24 x 2 x 0,75	20	24,4	342,0	724,0
59830	25 x 2 x 0,75	20	24,9	361,0	740,0
59831	1 x 2 x 1	18	6,3	28,0	104,0
59832	2 x 2 x 1	18	10,2	57,0	121,0
59833	3 x 2 x 1	18	11,5	75,0	150,0
59834	6 x 2 x 1	18	14,6	139,0	328,0
59835	9 x 2 x 1	18	17,2	212,0	490,0
59836	15 x 2 x 1	18	21,3	358,0	811,0

Dimensions and specifications may be changed without prior notice. (RN02)

Cable Glands

Cable glands for standard applications

Plastic Glands

Cable Glands of Brass

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for electromagnetic compatibility EMC

for rugged applications and special chemical resistance

for high temperature use

for explosive areas

for special mounting conditions

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