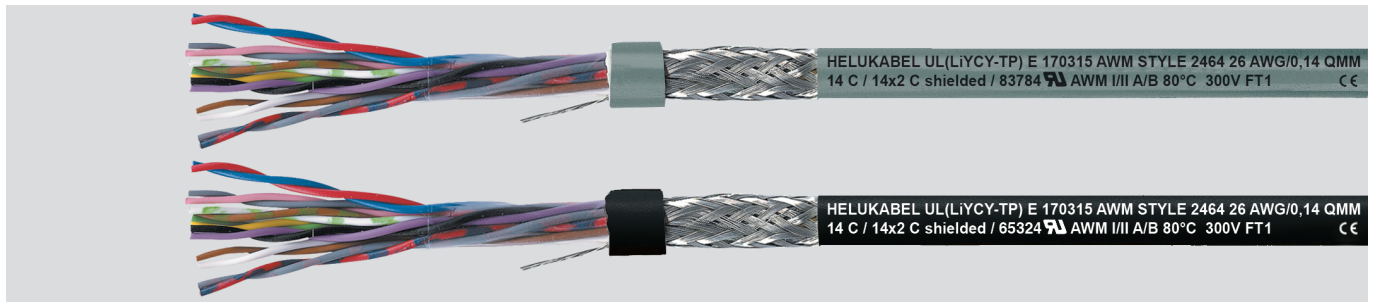


# Command Cable UL (LiYCY-TP)

Style 2464, 300 V, 80°C, Cu-screened, EMC-preferred type



## Technical data

- Special PVC command cable approved to UL Style 2464, cores acc. to UL Style 1061/1729
- **Temperature range**  
flexing -10°C to +80°C  
fixed installation -20°C to +80°C
- **Nominal voltage**  
300 V
- **Test voltage**  
1500 V
- **Breakdown voltage**  
min. 3000 V
- **Insulation resistance**  
min. 100 MOhm x km
- **Minimum bending radius**  
flexing 15x cable Ø  
fixed installation 7,5x cable Ø
- **Coupling resistance**  
max. 250 Ohm/km

## Cable structure

- Tinned copper conductor, fine wire, acc. to ASTM-B 174-95 class J-M  
Conductor make-up to:  
0,14 mm<sup>2</sup> = 7x0,162 mm  
0,23 mm<sup>2</sup> = 7x0,202 mm  
0,34 mm<sup>2</sup> = 7x0,254 mm  
0,56 mm<sup>2</sup> = 7x0,32 mm
- Core insulation of special PVC class 43 respectively semirigid acc. to UL Std.1581 tab.50.182 and 50183
- Core identification (pair) to DIN 47100 with colour repetition from pair no. 23 and above or international colour code
- Cores stranded in pairs with optimal lay length
- Pairs stranded in layers with optimal lay length
- Separator-foil
- Drain wire
- Tinned copper wire braiding, approx. 85% coverage
- Outer sheath of special PVC class 43 acc. to UL Std.1581 tab.50.182
- Sheath colour:  
black (international colour code)  
grey (DIN 47100 - preferred type)

## Properties

- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers
- **To a large extent resistant to**  
Oil  
Solvents  
Acids  
Lyes

## Tests

- PVC flame retardant acc. to UL VW-1, CSA FT1

## Note

- AWG sizes are approximate equivalent values. The actual cross section is in mm<sup>2</sup>.
- Unscreened analogue type:  
**command cable UL (LiYY-TP)**

## Application

Flexible, screened, twisted pair control and measuring cable; for machine tools, conveyor belts, plant construction, AC technology, steel production. In order to enhance EMC properties, a large contact area on both sides of the copper braiding is recommended.

**EMC** = Electromagnetic compatibility

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

**CE** = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	Sheath colour	Sheath colour	No.pairs x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	Part no.	Sheath colour	Sheath colour	No.pairs x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
grey	black							grey	black						
83774	65314		1 x 2 x 0,14	26	4,0	15,7	32,0	83792	65332		1 x 2 x 0,23	24	4,2	16,4	46,0
83775	65315		2 x 2 x 0,14	26	5,6	19,5	39,0	83793	65333		2 x 2 x 0,23	24	5,9	27,4	53,0
83776	65316		3 x 2 x 0,14	26	5,8	23,7	47,0	83794	65334		3 x 2 x 0,23	24	6,2	31,7	65,0
83777	65317		4 x 2 x 0,14	26	6,3	26,9	55,0	83795	65335		4 x 2 x 0,23	24	6,7	37,4	79,0
83778	65318		5 x 2 x 0,14	26	6,7	31,2	68,0	83796	65336		5 x 2 x 0,23	24	7,2	54,7	98,0
83779	65319		6 x 2 x 0,14	26	7,3	49,7	86,0	83797	65337		6 x 2 x 0,23	24	7,7	65,6	114,0
83780	65320		7 x 2 x 0,14	26	7,3	52,0	92,0	83798	65338		7 x 2 x 0,23	24	7,7	60,2	121,0
83781	65321		8 x 2 x 0,14	26	7,8	53,9	97,0	83799	65339		8 x 2 x 0,23	24	8,4	74,1	129,0
83782	65322		10 x 2 x 0,14	26	9,1	59,6	111,0	83800	65340		10 x 2 x 0,23	24	9,9	109,3	152,0
83783	65323		12 x 2 x 0,14	26	9,8	67,1	141,0	83801	65341		12 x 2 x 0,23	24	10,2	115,8	189,0
83784	65324		14 x 2 x 0,14	26	10,5	75,2	150,0	83802	65342		14 x 2 x 0,23	24	10,9	120,7	213,0
83785	65325		15 x 2 x 0,14	26	11,1	77,3	154,0	83803	65343		15 x 2 x 0,23	24	11,4	132,4	225,0
83786	65326		16 x 2 x 0,14	26	11,1	80,4	155,0	83804	65344		16 x 2 x 0,23	24	11,4	141,6	227,0
83787	65327		18 x 2 x 0,14	26	11,8	84,2	170,0	83805	65345		18 x 2 x 0,23	24	12,2	146,6	238,0
83788	65328		20 x 2 x 0,14	26	12,4	98,2	183,0	83806	65346		20 x 2 x 0,23	24	12,7	160,6	270,0
83789	65329		22 x 2 x 0,14	26	13,1	104,1	207,0	83807	65347		22 x 2 x 0,23	24	13,5	170,8	300,0
83790	65330		24 x 2 x 0,14	26	13,6	112,0	228,0	83808	65348		24 x 2 x 0,23	24	14,5	229,7	321,0
83791	65331		25 x 2 x 0,14	26	15,1	114,4	239,0	83809	65349		25 x 2 x 0,23	24	14,8	231,4	340,0

Continuation ▶

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Part no.	Sheath colour	Sheath colour	No.pairs x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
83810	grey	black	1 x 2 x 0,34	22	4,6	17,0	58,0
83811	grey	black	2 x 2 x 0,34	22	6,4	36,7	65,0
83812	grey	black	3 x 2 x 0,34	22	6,9	44,6	78,0
83813	grey	black	4 x 2 x 0,34	22	7,5	54,1	88,0
83814	grey	black	5 x 2 x 0,34	22	8,1	63,4	110,0
83815	grey	black	6 x 2 x 0,34	22	8,8	73,4	126,0
83816	grey	black	7 x 2 x 0,34	22	8,8	79,4	140,0
83817	grey	black	8 x 2 x 0,34	22	9,7	88,4	148,0
83818	grey	black	10 x 2 x 0,34	22	11,5	107,0	184,0
83819	grey	black	12 x 2 x 0,34	22	12,0	122,4	210,0
83820	grey	black	14 x 2 x 0,34	22	12,6	138,2	241,0
83821	grey	black	15 x 2 x 0,34	22	13,4	154,3	245,0
83822	grey	black	16 x 2 x 0,34	22	13,4	161,4	251,0
83823	grey	black	18 x 2 x 0,34	22	14,4	197,9	275,0
83824	grey	black	20 x 2 x 0,34	22	15,0	211,4	300,0
83825	grey	black	22 x 2 x 0,34	22	15,9	217,6	320,0
83826	grey	black	24 x 2 x 0,34	22	17,0	230,4	371,0
83827	grey	black	25 x 2 x 0,34	22	17,3	237,0	402,0

Part no.	Sheath colour	Sheath colour	No.pairs x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
83828	grey	black	1 x 2 x 0,56	20	5,0	26,0	70,0
83829	grey	black	2 x 2 x 0,56	20	7,0	56,1	89,0
83830	grey	black	3 x 2 x 0,56	20	7,6	71,7	102,0
83831	grey	black	4 x 2 x 0,56	20	8,3	92,4	119,0
83832	grey	black	5 x 2 x 0,56	20	9,1	107,4	140,0
83833	grey	black	6 x 2 x 0,56	20	10,1	122,4	162,0
83834	grey	black	7 x 2 x 0,56	20	10,1	131,7	198,0
83835	grey	black	8 x 2 x 0,56	20	12,7	144,3	272,0
83836	grey	black	10 x 2 x 0,56	20	13,2	179,6	307,0
83837	grey	black	12 x 2 x 0,56	20	13,6	201,7	318,0
83838	grey	black	14 x 2 x 0,56	20	14,4	221,4	342,0
83839	grey	black	15 x 2 x 0,56	20	15,5	231,6	381,0
83840	grey	black	16 x 2 x 0,56	20	15,5	257,1	417,0
83841	grey	black	18 x 2 x 0,56	20	16,3	282,4	494,0
83842	grey	black	20 x 2 x 0,56	20	17,1	306,7	570,0
83843	grey	black	22 x 2 x 0,56	20	18,0	321,8	643,0
83844	grey	black	24 x 2 x 0,56	20	19,4	342,4	724,0
83845	grey	black	25 x 2 x 0,56	20	19,8	361,2	740,0

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