

HELUDATA® PAAR-TRONIC-CY 2464 / 300 GREY / HELUDATA® PAAR-TRONIC-CY 2464 / 300 BLACK



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



TECHNICAL DATA

PVC data cable acc. to UL-Std. 758 (AWM) Style 2464, CSA-Std. C22.2 No. 210 - AWM I/II A/B

Temperature range	flexible -10°C to +80°C fixed -40°C to +80°C
Nominal voltage	UL (AWM) AC 300 V
Test voltage core/core	1500 V
Breakdown voltage	3000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 15x Outer-Ø fixed 7.5x Outer-Ø

■ CABLE STRUCTURE

- Copper wire tinned, finely stranded, AWG sizes
- Wire structure:
 - 26 AWG: 7 x 0.160 mm
 - 24 AWG: 7 x 0.203 mm
 - 22 AWG: 7 x 0.254 mm
 - 20 AWG: 7 x 0.320 mm
- Core insulation: semirigid PVC acc. to UL-Std. 1581 Tab. 50.183
- Core identification: see table
- x = without protective conductor
- Cores stranded in pairs with optimal lay lengths, Pairs stranded in layers with optimal lay lengths
- Foil wrapping
- Drain wire, tinned copper

- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: PVC acc. to UL-Std. 1581 Tab. 50.182, CSA-Std. C22.2 No. 210
- Sheath colour: see table

■ PROPERTIES

- resistant to: oil, solvents, acids, alkalis
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

■ TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2, UL VW-1, CSA FT1

■ APPLICATION

UL/CSA approved, screened, twisted pair data cable for use as a signal and measuring cable in machine tools, assembly lines, conveyor belts, plant construction, air conditioning devices, metallurgical plants, steel mills. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

■ NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only

Sheath colour: grey (RAL 7001); core identification acc. to DIN 47100 (paired stranding), colour coded

Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
83774	1 x 2 x 26	0.14	4.3	15.7	32.0	83794	3 x 2 x 24	0.23	6.3	31.7	65.0
83775	2 x 2 x 26	0.14	5.6	19.5	39.0	83795	4 x 2 x 24	0.23	6.7	37.4	79.0
83776	3 x 2 x 26	0.14	5.8	23.7	47.0	83796	5 x 2 x 24	0.23	7.5	54.7	98.0
83777	4 x 2 x 26	0.14	6.2	26.9	55.0	83797	6 x 2 x 24	0.23	8.0	65.6	114.0
83778	5 x 2 x 26	0.14	6.7	31.2	68.0	83798	7 x 2 x 24	0.23	8.0	60.2	121.0
83779	6 x 2 x 26	0.14	7.2	49.7	86.0	83799	8 x 2 x 24	0.23	9.3	74.1	129.0
83780	7 x 2 x 26	0.14	7.2	52.0	92.0	83800	10 x 2 x 24	0.23	10.0	109.3	152.0
83781	8 x 2 x 26	0.14	8.3	53.9	97.0	83801	12 x 2 x 24	0.23	10.5	115.8	189.0
83782	10 x 2 x 26	0.14	9.2	59.6	111.0	83802	14 x 2 x 24	0.23	11.0	120.7	213.0
83783	12 x 2 x 26	0.14	9.4	67.1	141.0	83803	15 x 2 x 24	0.23	11.5	132.4	225.0
83784	14 x 2 x 26	0.14	9.8	75.2	150.0	83804	16 x 2 x 24	0.23	11.5	141.6	227.0
83785	15 x 2 x 26	0.14	10.5	77.3	154.0	83805	18 x 2 x 24	0.23	12.2	146.6	238.0
83786	16 x 2 x 26	0.14	10.5	80.4	155.0	83806	20 x 2 x 24	0.23	12.8	160.6	270.0
83787	18 x 2 x 26	0.14	11.0	84.2	170.0	83807	22 x 2 x 24	0.23	13.7	170.8	300.0
83788	20 x 2 x 26	0.14	11.5	98.2	183.0	83808	24 x 2 x 24	0.23	14.5	229.7	321.0
83789	22 x 2 x 26	0.14	12.1	104.1	207.0	83809	25 x 2 x 24	0.23	14.9	231.4	340.0
83790	24 x 2 x 26	0.14	12.8	112.0	228.0	83810	1 x 2 x 22	0.34	4.9	17.0	58.0
83791	25 x 2 x 26	0.14	13.2	114.4	239.0	83811	2 x 2 x 22	0.34	6.5	36.7	65.0
83792	1 x 2 x 24	0.23	4.6	16.4	46.0	83812	3 x 2 x 22	0.34	6.8	44.6	78.0
83793	2 x 2 x 24	0.23	6.0	27.4	53.0	83813	4 x 2 x 22	0.34	7.5	54.1	88.0

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

Sheath colour: grey (RAL 7001); core identification acc. to DIN 47100 (paired stranding), colour coded

Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
83814	5 x 2 x 22	0.34	8.1	63.4	110.0	83830	3 x 2 x 20	0.56	7.7	71.7	102.0
83815	6 x 2 x 22	0.34	8.9	73.4	126.0	83831	4 x 2 x 20	0.56	8.3	92.4	119.0
83816	7 x 2 x 22	0.34	8.9	79.4	140.0	83832	5 x 2 x 20	0.56	9.2	107.4	140.0
83817	8 x 2 x 22	0.34	10.4	88.4	148.0	83833	6 x 2 x 20	0.56	9.9	122.4	162.0
83818	10 x 2 x 22	0.34	11.2	107.0	184.0	83834	7 x 2 x 20	0.56	9.9	131.7	198.0
83819	12 x 2 x 22	0.34	11.5	122.4	210.0	83835	8 x 2 x 20	0.56	11.6	144.3	272.0
83820	14 x 2 x 22	0.34	12.3	138.2	241.0	83836	10 x 2 x 20	0.56	12.7	179.6	307.0
83821	15 x 2 x 22	0.34	12.9	154.3	245.0	83837	12 x 2 x 20	0.56	13.5	201.7	318.0
83822	16 x 2 x 22	0.34	12.9	161.4	251.0	83838	14 x 2 x 20	0.56	14.1	221.4	342.0
83823	18 x 2 x 22	0.34	13.9	197.9	275.0	83839	15 x 2 x 20	0.56	15.0	231.6	381.0
83824	20 x 2 x 22	0.34	14.7	211.4	300.0	83840	16 x 2 x 20	0.56	15.0	257.1	417.0
83825	22 x 2 x 22	0.34	15.3	217.6	320.0	83841	18 x 2 x 20	0.56	15.7	282.4	494.0
83826	24 x 2 x 22	0.34	16.4	230.4	371.0	83842	20 x 2 x 20	0.56	16.6	306.7	570.0
83827	25 x 2 x 22	0.34	16.7	237.0	402.0	83843	22 x 2 x 20	0.56	17.4	321.8	643.0
83828	1 x 2 x 20	0.56	5.3	26.0	70.0	83844	24 x 2 x 20	0.56	18.5	342.4	724.0
83829	2 x 2 x 20	0.56	7.1	56.1	89.0	83845	25 x 2 x 20	0.56	19.1	361.2	740.0

Sheath colour: black (RAL 9005); core identification acc. to international colour code (paired stranding), colour coded

Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
65314	1 x 2 x 26	0.14	4.3	15.7	32.0	65350	1 x 2 x 22	0.34	4.9	17.0	58.0
65315	2 x 2 x 26	0.14	5.6	19.5	39.0	65351	2 x 2 x 22	0.34	6.5	36.7	65.0
65316	3 x 2 x 26	0.14	5.8	23.7	47.0	65352	3 x 2 x 22	0.34	6.8	44.6	78.0
65317	4 x 2 x 26	0.14	6.2	26.9	55.0	65353	4 x 2 x 22	0.34	7.5	54.1	88.0
65318	5 x 2 x 26	0.14	6.7	31.2	68.0	65354	5 x 2 x 22	0.34	8.1	63.4	110.0
65319	6 x 2 x 26	0.14	7.2	49.7	86.0	65355	6 x 2 x 22	0.34	8.9	73.4	126.0
65320	7 x 2 x 26	0.14	7.2	52.0	92.0	65356	7 x 2 x 22	0.34	8.9	79.4	140.0
65321	8 x 2 x 26	0.14	8.3	53.9	97.0	65357	8 x 2 x 22	0.34	10.4	88.4	148.0
65322	10 x 2 x 26	0.14	9.2	59.6	111.0	65358	10 x 2 x 22	0.34	11.2	107.0	184.0
65323	12 x 2 x 26	0.14	9.4	67.1	141.0	65359	12 x 2 x 22	0.34	11.5	122.4	210.0
65324	14 x 2 x 26	0.14	9.8	75.2	150.0	65360	14 x 2 x 22	0.34	12.3	138.2	241.0
65325	15 x 2 x 26	0.14	10.5	77.3	154.0	65361	15 x 2 x 22	0.34	12.9	154.3	245.0
65326	16 x 2 x 26	0.14	10.5	80.4	155.0	65362	16 x 2 x 22	0.34	12.9	161.4	251.0
65327	18 x 2 x 26	0.14	11.0	84.2	170.0	65363	18 x 2 x 22	0.34	13.9	197.9	275.0
65328	20 x 2 x 26	0.14	11.5	98.2	183.0	65364	20 x 2 x 22	0.34	14.7	211.4	300.0
65329	22 x 2 x 26	0.14	12.1	104.1	207.0	65365	22 x 2 x 22	0.34	15.3	217.6	320.0
65330	24 x 2 x 26	0.14	12.8	112.0	228.0	65366	24 x 2 x 22	0.34	16.4	230.4	371.0
65331	25 x 2 x 26	0.14	13.2	114.4	239.0	65367	25 x 2 x 22	0.34	16.7	237.0	402.0
65332	1 x 2 x 24	0.23	4.6	16.4	46.0	65368	1 x 2 x 20	0.56	5.3	26.0	70.0
65333	2 x 2 x 24	0.23	6.0	27.4	53.0	65369	2 x 2 x 20	0.56	7.1	56.1	89.0
65334	3 x 2 x 24	0.23	6.3	31.7	65.0	65370	3 x 2 x 20	0.56	7.7	71.7	102.0
65335	4 x 2 x 24	0.23	6.7	37.4	79.0	65371	4 x 2 x 20	0.56	8.3	92.4	119.0
65336	5 x 2 x 24	0.23	7.5	54.7	98.0	65372	5 x 2 x 20	0.56	9.2	107.4	140.0
65337	6 x 2 x 24	0.23	8.0	65.6	114.0	65373	6 x 2 x 20	0.56	9.9	122.4	162.0
65338	7 x 2 x 24	0.23	8.0	60.2	121.0	65374	7 x 2 x 20	0.56	9.9	131.7	198.0
65339	8 x 2 x 24	0.23	9.3	74.1	129.0	65375	8 x 2 x 20	0.56	11.6	144.3	272.0
65340	10 x 2 x 24	0.23	10.0	109.3	152.0	65376	10 x 2 x 20	0.56	12.7	179.6	307.0
65341	12 x 2 x 24	0.23	10.5	115.8	189.0	65377	12 x 2 x 20	0.56	13.5	201.7	318.0
65342	14 x 2 x 24	0.23	11.0	120.7	213.0	65378	14 x 2 x 20	0.56	14.1	221.4	342.0
65343	15 x 2 x 24	0.23	11.5	132.4	225.0	65379	15 x 2 x 20	0.56	15.0	231.6	381.0
65344	16 x 2 x 24	0.23	11.5	141.6	227.0	65380	16 x 2 x 20	0.56	15.0	257.1	417.0
65345	18 x 2 x 24	0.23	12.2	146.6	238.0	65381	18 x 2 x 20	0.56	15.7	282.4	494.0
65346	20 x 2 x 24	0.23	12.8	160.6	270.0	65382	20 x 2 x 20	0.56	16.6	306.7	570.0
65347	22 x 2 x 24	0.23	13.7	170.8	300.0	65383	22 x 2 x 20	0.56	17.4	321.8	643.0
65348	24 x 2 x 24	0.23	14.5	229.7	321.0	65384	24 x 2 x 20	0.56	18.5	342.4	724.0
65349	25 x 2 x 24	0.23	14.9	231.4	340.0	65385	25 x 2 x 20	0.56	19.1	361.2	740.0