



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

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



HELUKABEL® HELUDATA® TRONIC-CY 2464 / 300 GREY AWM STYLE 2464
22 AWG / 0,34 QMM 12 C 83291 80°C 300V VW-1 AWM I/II A/B 80°C 300V FT1



HELUKABEL® HELUDATA® TRONIC-CY 2464 / 300 BLACK AWM STYLE 2464
22 AWG / 0,34 QMM 12 C 65049 80°C 300V VW-1 AWM I/II A/B 80°C 300V FT1

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 0.162 mm
 - 24 AWG: 7 x 0.202 mm
 - 22 AWG: 7 x 0.254 mm
 - 20 AWG: 7 x 0.320 mm
 - 18 AWG: 19 x 0.235 mm
 - 16 AWG: 19 x 0.310 mm
- Core insulation:
 - 26 - 20 AWG: semirigid PVC acc. to UL-Std. 1581 Tab. 50.183
 - 18 - 16 AWG: PVC acc. to UL-Std. 1581 Tab. 50.182
- Core identification: see table
- x = without protective conductor
- Cores 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, flexible data cable for applications within control and regulation engineering as well as measurement, signal and impulse technology. 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, 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.
83254	2 x 26	0.14	4.3	12.6	20.0	83278	24 x 24	0.23	9.4	97.3	131.0
83255	3 x 26	0.14	4.5	13.7	25.0	83279	27 x 24	0.23	9.5	122.0	160.0
83256	4 x 26	0.14	4.7	14.9	28.0	83280	30 x 24	0.23	9.8	132.0	170.0
83257	6 x 26	0.14	5.3	18.9	30.0	83286	2 x 22	0.34	4.9	18.1	40.0
83258	10 x 26	0.14	6.3	29.5	50.0	83287	3 x 22	0.34	5.1	22.2	50.0
83259	12 x 26	0.14	6.4	31.4	53.0	83288	4 x 22	0.34	5.4	28.7	60.0
83260	16 x 26	0.14	7.0	43.9	60.0	83289	6 x 22	0.34	6.1	45.4	80.0
83261	18 x 26	0.14	7.5	52.1	70.0	83290	10 x 22	0.34	7.6	66.1	130.0
83262	24 x 26	0.14	8.5	62.8	100.0	83291	12 x 22	0.34	7.8	70.8	140.0
83263	27 x 26	0.14	8.6	66.3	105.0	83292	16 x 22	0.34	8.5	88.4	160.0
83264	30 x 26	0.14	9.1	70.4	110.0	83293	18 x 22	0.34	9.1	104.1	170.0
83270	2 x 24	0.23	4.6	16.1	20.0	83294	24 x 22	0.34	10.5	129.0	220.0
83271	3 x 24	0.23	4.7	18.9	25.0	83295	27 x 22	0.34	10.7	138.4	250.0
83272	4 x 24	0.23	5.0	23.0	30.0	83296	30 x 22	0.34	11.0	159.0	280.0
83273	6 x 24	0.23	5.7	32.8	40.0	83302	2 x 20	0.56	5.3	29.4	50.0
83274	10 x 24	0.23	6.8	50.9	60.0	83303	3 x 20	0.56	5.5	39.7	55.0
83275	12 x 24	0.23	6.9	59.1	70.0	83304	4 x 20	0.56	5.9	46.1	61.0
83276	16 x 24	0.23	7.7	68.4	90.0	83305	6 x 20	0.56	6.7	66.8	90.0
83277	18 x 24	0.23	8.1	79.5	123.0	83306	10 x 20	0.56	8.4	93.1	133.0

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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, 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.
83307	12 x 20	0.56	8.6	117.4	151.0	83326	24 x 18	0.82	15.6	272.6	450.0
83308	16 x 20	0.56	9.6	130.4	190.0	83327	27 x 18	0.82	15.9	289.1	470.0
83309	18 x 20	0.56	10.0	151.4	216.0	83328	30 x 18	0.82	16.6	317.4	490.0
83310	24 x 20	0.56	11.9	237.0	339.0	83334	2 x 16	1.30	7.0	59.1	90.0
83311	27 x 20	0.56	12.1	257.4	374.0	83335	3 x 16	1.30	7.6	74.1	160.0
83312	30 x 20	0.56	12.5	297.0	397.0	83336	4 x 16	1.30	8.2	96.4	200.0
83318	2 x 18	0.82	6.3	39.1	60.0	83337	6 x 16	1.30	9.8	137.4	290.0
83319	3 x 18	0.82	6.6	50.0	75.0	83338	10 x 16	1.30	12.5	191.7	450.0
83320	4 x 18	0.82	7.1	59.1	90.0	83339	12 x 16	1.30	12.9	251.7	600.0
83321	6 x 18	0.82	8.5	89.1	125.0	83340	16 x 16	1.30	14.8	276.1	650.0
83322	10 x 18	0.82	10.8	141.4	180.0	83341	18 x 16	1.30	15.5	364.1	680.0
83323	12 x 18	0.82	11.2	152.8	220.0	83342	24 x 16	1.30	18.2	442.4	900.0
83324	16 x 18	0.82	12.4	184.1	290.0	83343	27 x 16	1.30	18.6	494.7	990.0
83325	18 x 18	0.82	13.0	207.2	300.0	83344	30 x 16	1.30	19.6	521.4	1050.0

Sheath colour: black (RAL 9005); core identification acc. to international colour code, 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.
83976	2 x 26	0.14	4.3	12.6	20.0	65055	2 x 20	0.56	5.3	29.4	50.0
83977	3 x 26	0.14	4.5	13.7	25.0	65056	3 x 20	0.56	5.5	39.7	55.0
83978	4 x 26	0.14	4.7	14.9	28.0	65057	4 x 20	0.56	5.9	46.1	61.0
83979	6 x 26	0.14	5.3	18.9	30.0	65058	6 x 20	0.56	6.7	66.8	90.0
83980	10 x 26	0.14	6.3	29.5	50.0	65059	10 x 20	0.56	8.4	93.1	133.0
83981	12 x 26	0.14	6.4	31.4	53.0	65060	12 x 20	0.56	8.6	117.4	151.0
83982	16 x 26	0.14	7.0	43.9	60.0	65061	16 x 20	0.56	9.6	130.4	190.0
83983	18 x 26	0.14	7.5	52.1	70.0	65062	18 x 20	0.56	10.0	151.4	216.0
83984	24 x 26	0.14	8.5	62.8	100.0	65063	24 x 20	0.56	11.9	237.0	339.0
83985	27 x 26	0.14	8.6	66.3	105.0	65064	27 x 20	0.56	12.1	257.4	374.0
83986	30 x 26	0.14	9.1	70.4	110.0	65065	30 x 20	0.56	12.5	297.0	397.0
83987	2 x 24	0.23	4.6	16.1	20.0	65066	2 x 18	0.82	6.3	39.1	60.0
83988	3 x 24	0.23	4.7	18.9	25.0	65067	3 x 18	0.82	6.6	50.0	75.0
83989	4 x 24	0.23	5.0	23.0	30.0	65068	4 x 18	0.82	7.1	59.1	90.0
83990	6 x 24	0.23	5.7	32.8	40.0	65069	6 x 18	0.82	8.5	89.1	125.0
83991	10 x 24	0.23	6.8	50.9	60.0	65070	10 x 18	0.82	10.8	141.4	180.0
83992	12 x 24	0.23	6.9	59.1	70.0	65071	12 x 18	0.82	11.2	152.8	220.0
83993	16 x 24	0.23	7.7	68.4	90.0	65072	16 x 18	0.82	12.4	184.1	290.0
83994	18 x 24	0.23	8.1	79.5	123.0	65073	18 x 18	0.82	13.0	207.2	300.0
83995	24 x 24	0.23	9.4	97.3	131.0	65074	24 x 18	0.82	15.6	272.6	450.0
83996	27 x 24	0.23	9.5	122.0	160.0	65075	27 x 18	0.82	15.9	289.1	470.0
83997	30 x 24	0.23	9.8	132.0	170.0	65076	30 x 18	0.82	16.6	317.4	490.0
65044	2 x 22	0.34	4.9	18.1	40.0	65077	2 x 16	1.30	7.0	59.1	90.0
65045	3 x 22	0.34	5.1	22.2	50.0	65078	3 x 16	1.30	7.6	74.1	160.0
65046	4 x 22	0.34	5.4	28.7	60.0	65079	4 x 16	1.30	8.2	96.4	200.0
65047	6 x 22	0.34	6.1	45.4	80.0	65080	6 x 16	1.30	9.8	137.4	290.0
65048	10 x 22	0.34	7.6	66.1	130.0	65081	10 x 16	1.30	12.5	191.7	450.0
65049	12 x 22	0.34	7.8	70.8	140.0	65082	12 x 16	1.30	12.9	251.7	600.0
65050	16 x 22	0.34	8.5	88.4	160.0	65083	16 x 16	1.30	14.8	276.1	650.0
65051	18 x 22	0.34	9.1	104.1	170.0	65084	18 x 16	1.30	15.5	364.1	680.0
65052	24 x 22	0.34	10.5	129.0	220.0	65085	24 x 16	1.30	18.2	442.4	900.0
65053	27 x 22	0.34	10.7	138.4	250.0	65086	27 x 16	1.30	18.6	494.7	990.0
65054	30 x 22	0.34	11.0	159.0	280.0	65087	30 x 16	1.30	19.6	521.4	1050.0