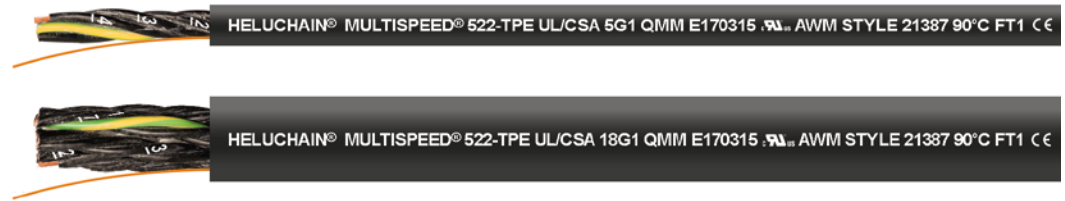


HELUCHAIN® MULTISPEED® 522-TPE UL/CSA

for extreme mechanical stress, oil resistant



TECHNICAL DATA

TPE drag chain cable acc. to UL-Std. 758 (AWM) Style 21387, CSA-Std. C22.2 No. 210 - AWM I/II A/B, in alignment with DIN VDE 0285-525-2-51 / DIN EN 50525-2-51

Temperature range	flexible -40°C to +90°C fixed -40°C to +90°C
Nominal voltage	AC U ₀ /U 600/1000 V UL (AWM) AC 1000 V
Test voltage core/core	3000 V
Minimum bending radius	flexible 5x Outer-Ø fixed 3x Outer-Ø

■ CABLE STRUCTURE

- Copper wire bare, extra finely stranded acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Core insulation: PP
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE, x = without protective conductor
- Stranding:
2 - 5 core(s): cores stranded into one layer with an optimally matched short lay length
7 - 42 core(s): cores stranded into bundles/pairs with optimally matched, short lay lengths; bundles/pairs stranded together around a tensile core
- Ripcord
- Outer sheath: TPE, extruded filler
- Sheath colour: black (RAL 9004)
- Length marking: in metres

■ PROPERTIES

- resistant to: oil, UV radiation, ozone

- low adhesion
- longer service life due to low frictional resistance of the PP-insulated cores
- for outdoor use
- suitable for use in drag chains
- highly resistant to alternate bending strength
- 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
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404

■ APPLICATION

This UL/CSA approved cable is used when extreme demands are placed on the cable. Designed for export-oriented mechanical engineers, specifically in the USA and Canada. Gearing to the needs of the industry, materials and stranding techniques permit continuous use as highly flexible drag chain cables with long travelling distance capabilities at high or low speeds. For installation in dry and damp rooms, as well as outdoors. With free movement, without tensile stress and without forced motion control capabilities, these highly flexible TPE drag chain cables are suitable for frequent lifting and bending stress in machine and tool construction.

■ NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for use in energy supply systems:
1) the assembly instructions must be observed
2) for special applications, we recommend contacting us and using our data entry form for energy supply systems

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
11001824	2 x 0.5	21	5.5	9.6	37.0
11001825	3 G 0.5	21	5.7	14.4	42.0
11001826	4 G 0.5	21	6.1	19.2	49.0
11001827	5 G 0.5	21	6.6	24.0	59.0
11001828	7 G 0.5	21	8.8	33.6	91.0
11001829	12 G 0.5	21	10.2	57.6	133.0
11001830	16 G 0.5	21	11.3	76.8	167.0
11001831	18 G 0.5	21	12.1	86.4	184.0
11001832	20 G 0.5	21	12.4	96.0	199.0
11001833	25 G 0.5	21	13.6	120.0	244.0
11001834	36 G 0.5	21	16.9	172.8	355.0
11001835	42 G 0.5	21	18.6	201.6	419.0
11001836	2 x 0.75	19	5.9	14.4	45.0
11001837	3 G 0.75	19	6.2	21.6	53.0
11001838	4 G 0.75	19	6.6	28.8	62.0
11001839	5 G 0.75	19	7.2	36.0	75.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
11001840	7 G 0.75	19	9.6	50.4	119.0
11001841	12 G 0.75	19	11.1	86.4	172.0
11001842	16 G 0.75	19	12.4	115.2	216.0
11001843	18 G 0.75	19	13.3	129.6	240.0
11001844	20 G 0.75	19	13.7	144.0	269.0
11001845	25 G 0.75	19	15.1	180.0	325.0
11001846	36 G 0.75	19	19.2	259.2	484.0
11001847	42 G 0.75	19	20.8	302.4	564.0
11001848	2 x 1	18	6.3	19.2	53.0
11001849	3 G 1	18	6.6	28.8	63.0
11001850	4 G 1	18	7.1	38.4	77.0
11001851	5 G 1	18	7.7	48.0	92.0
11001852	7 G 1	18	10.4	67.2	143.0
11001853	12 G 1	18	12.2	115.2	211.0
11001854	16 G 1	18	13.6	153.6	276.0
11001855	18 G 1	18	14.8	172.8	311.0

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Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
11001856	20 G 1	18	15.2	192.0	339.0	11001877	12 G 2.5	14	16.7	288.0	442.0
11001857	25 G 1	18	17.0	240.0	419.0	11001878	16 G 2.5	14	18.9	384.0	584.0
11001858	36 G 1	18	21.4	345.6	625.0	11001879	18 G 2.5	14	20.6	432.0	655.0
11001859	42 G 1	18	23.5	403.2	742.0	11001880	20 G 2.5	14	21.2	480.0	726.0
11001860	2 x 1.5	16	6.9	28.8	67.0	11001881	25 G 2.5	14	23.8	600.0	901.0
11001861	3 G 1.5	16	7.3	43.2	82.0	11001882	3 G 4	12	9.7	115.2	174.0
11001862	4 G 1.5	16	7.9	57.6	101.0	11001883	4 G 4	12	10.6	153.6	219.0
11001863	5 G 1.5	16	8.6	72.0	122.0	11001884	5 G 4	12	11.6	192.0	266.0
11001864	7 G 1.5	16	11.7	100.8	191.0	11001885	3 G 6	10	11.0	172.8	240.0
11001865	12 G 1.5	16	13.7	172.8	291.0	11001886	4 G 6	10	12.1	230.4	306.0
11001866	16 G 1.5	16	15.6	230.4	386.0	11001887	5 G 6	10	13.3	288.0	375.0
11001867	18 G 1.5	16	17.0	259.2	422.0	11001888	4 G 10	8	16.7	384.0	538.0
11001868	20 G 1.5	16	17.6	288.0	472.0	11001889	5 G 10	8	18.6	480.0	666.0
11001869	25 G 1.5	16	19.7	360.0	589.0	11001890	4 G 16	6	19.8	614.4	811.0
11001870	36 G 1.5	16	24.7	518.4	878.0	11001891	5 G 16	6	22.1	768.0	1008.0
11001871	42 G 1.5	16	27.1	604.8	1025.0	11001892	4 G 25	4	25.1	960.0	1277.0
11001872	2 x 2.5	14	7.9	48.0	96.0	11001893	5 G 25	4	28.2	1200.0	1596.0
11001873	3 G 2.5	14	8.4	72.0	119.0	11001894	4 G 35	2	28.5	1344.0	1792.0
11001874	4 G 2.5	14	9.1	96.0	148.0	11001895	5 G 35	2	31.9	1680.0	2184.0
11001875	5 G 2.5	14	10.0	120.0	180.0	11001896	4 G 50	1	33.3	1920.0	2532.0
11001876	7 G 2.5	14	13.8	168.0	297.0	11001897	5 G 50	1	37.5	2400.0	3154.0