

HELUCHAIN® MULTISPEED® TRONIC-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 -35°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	3000 V
Minimum bending radius	flexible 5x Outer-Ø fixed 3x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, super finely stranded
- Strand construction:
 - 0.14 mm²: approx. 7 x 0.16 mm
 - 0.25 mm²: approx. 19 x 0.127 mm
 - 0.34 mm²: approx. 19 x 0.15 mm
- Core insulation: PP
- Core identification acc. to DIN 47100, colour coded
- Stranding:
 - 3 - 5 core(s): cores stranded into one layer with an optimally matched short lay length
 - 7 - 25 core(s): cores stranded into bundles with optimally matched, short lay lengths; bundles 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, microbes
- 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 factor per km	Weight kg/km, approx.
11026369	3 x 0.14	26	4.6	4.0	22.9
11026370	4 x 0.14	26	4.9	5.4	26.2
11026371	5 x 0.14	26	5.2	6.8	30.1
11026372	7 x 0.14	26	6.7	9.4	48.5
11026373	12 x 0.14	26	7.6	16.2	63.1
11026374	16 x 0.14	26	8.4	21.6	77.4
11026375	18 x 0.14	26	8.9	24.3	84.4
11026376	20 x 0.14	26	9.2	27.0	91.4
11026377	25 x 0.14	26	10.0	33.8	110.1
11026381	3 x 0.25	24	5.0	6.9	29.2
11026382	4 x 0.25	24	5.3	9.2	33.6
11026383	5 x 0.25	24	5.6	11.6	38.5
11026384	7 x 0.25	24	7.3	16.2	62.2
11026385	12 x 0.25	24	8.4	27.7	85.1

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11026386	16 x 0.25	24	9.3	37.0	105.6
11026387	18 x 0.25	24	9.9	41.6	116.4
11026388	20 x 0.25	24	10.1	46.2	123.7
11026389	25 x 0.25	24	11.1	57.8	151.8
11026393	3 x 0.34	22	5.3	9.8	34.0
11026394	4 x 0.34	22	5.6	13.0	39.2
11026395	5 x 0.34	22	6.1	16.3	47.2
11026396	7 x 0.34	22	8.0	22.8	76.5
11026397	12 x 0.34	22	9.1	39.1	103.4
11026472	16 x 0.34	22	10.1	52.2	129.1
11026473	18 x 0.34	22	10.8	48.9	140.0
11026474	20 x 0.34	22	11.1	65.2	150.0
11026475	25 x 0.34	22	12.1	81.5	187.3