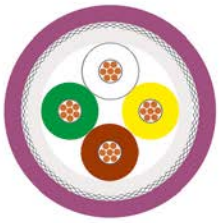
HELUCHAIN® CAN-BUS 2-PAIR/QUAD TPE

for use in drag chains, TPE outer sheath, UL +90°C



TECHNICAL DATA

CAN bus cable acc. to UL-Std. 758 (AWM) Style 22541

Temperature range	flexible -35°C to +90°C fixed -50°C to +90°C
Peak operating voltage	125 V (not for high power current installation purposes)
Test voltage	3000 V
Conductor resistance at 20°C	20 AWG: 39.0 Ohm/km 24 AWG: 87.7 Ohm/km
Insulation resistance	min. 5.0 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 40 pF/m
Rel. Velocity of Propagation	approx. 75%
Characteristic impedance	at 1 MHz, 120 Ohm ± 10 Ohm
Minimum bending radius	flexible 7.5x Outer-Ø fixed installation 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare
- Core insulation: Foam PP
- Core identification: colour coded, pairs:
  No. 1: white / brown
  No. 2: green / yellow
- Cores stranded with optimal lay lengths
- Inner sheath: TPE, beige
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: TPE
- Sheath colour: violet (RAL 4001)
- Length marking: in metres

PROPERTIES

- resistant to: oil, hydrolysis, microbes
- abrasion-resistant
- suitable for use in drag chains
- 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
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- Cable Flame Test acc. to UL Std. 1581 Sec. 1061

APPLICATION

HELUCHAIN® CAN-BUS 2-PAIR/QUAD TPE with inner sheath is the best solution for the highest demands for long travel distances, acceleration, abrasion resistance, and minimum bending radii in drag chains. The material exhibits exceptional oil resistance, coupled with a UL approval for 90°C.

NOTES

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

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11027795	2 x 2 x AWG 24 /19	0.25	6.4	26.0	55.0
11027797	2 x 2 x AWG 20 /19	0.50	7.7	40.0	83.0