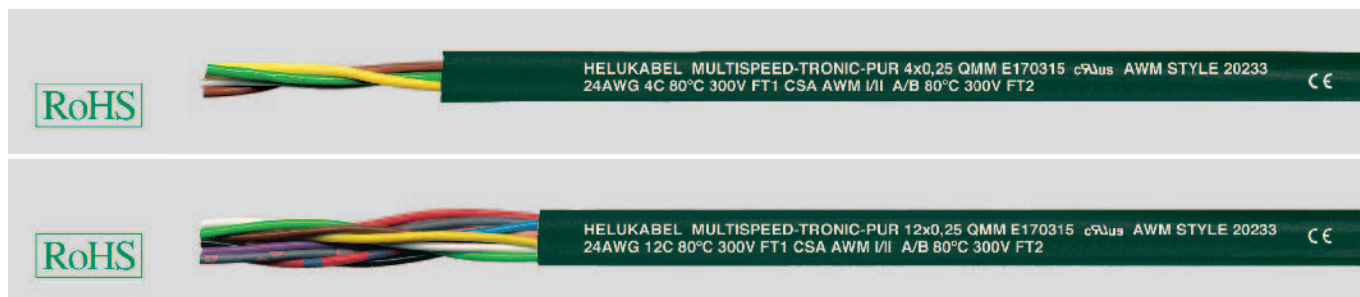


# MULTISPEED®-TRONIC-PUR safety against high bending in drag chain systems, halogen-free



## Technical data

- Special drag chain cables for high mechanical stress in adapted to DIN VDE 0281 part 13, DIN VDE 0282 part 10 and E DIN VDE 0245 and UL-Std. 758 AWM Style 20233 and 20939, cores according to UL-Style 10522 and 10521
- **Temperature range**  
flexing -30°C to +80°C  
fixed installation -50°C to +80°C
- **Nominal voltage**  $U_0/U$  300/300 V
- **Test voltage** 3000 V
- **Insulation resistance**  
min. 100 MOhm x km
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

## Cable construction

- Bare copper, fine wire conductors, Unilay with short pitch length
- Special TPE core insulation
- Colour coded to DIN 47100
- Stranding:  
<7 cores: cores stranded in a layer with optimal lay-length around a filler as per construction  
≥7 cores: cores stranded with optimal lay-length to bunch-construction with low torsion strength, optimal selected short lay-length around a filler
- Special-PUR outer sheath, especially resistant against fatigue strength, extruded as filler with pressure, sheath
- Colour pine green (RAL 6028)

## Properties

- PUR flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B) vertical flame test FT1 to UL-Std. 758 sec. 42, tested to UL-Std. 1581 sec. 1060 UL-FT1 corresponding CSA FT2
- Low-adhesion
- Halogen-free
- High property of alternating bending strength
- High tensile strength, abrasion- and impact resistance at low temperature
- Use in multi-shift operations under extremely high continuous bending loads
- Abrasion resistance
- Tear resistance
- High stability
- Oil resistance
- Better chemical resistance
- UV and ozone resistance
- Higher economical solution
- Reduced Ø, results low weight of moving materials
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Application HELUKABEL® MULTISPEED-TRONIC-PUR installed there, where the extreme requirements for the cables are necessary. The selected materials and lay-up technique permit these high flexible cables for permanent application in drag chains for long distances, high and low speed of movements. These cables are installed in dry, moist and wet rooms and in open air with free movement without tensile stress or forced movements. These robust and abrasion resistant special control cables are installed there, where the problems appear for the application in permanent stresses e.g. in energy drag chains, industry robotics, production lines, automatic control systems and permanent movable machinery parts for multi-shift operation. These cables are installed everywhere, where high requirements for the flexibility, abrasion, oxygen and chemical resistance are necessary.

For applications which go beyond standard solutions (for example for composting appliances or high shelf conveyors with extremely high processing speeds etc.) we recommend for our especially developed enquiry sheet for energy guiding systems.

Before installation in cable trays please read the instructions. Further technical details see selection table for drag chain cables, see lead text.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
24567	2 x 0,25	24	3,9	5,0	27,0
24568	3 x 0,25	24	4,1	7,5	33,0
24569	4 x 0,25	24	4,4	10,0	40,0
24570	5 x 0,25	24	4,6	12,5	48,0
24571	7 x 0,25	24	6,4	17,5	60,0
24572	12 x 0,25	24	7,0	30,1	91,0
24573	18 x 0,25	24	8,4	45,0	125,0
24574	25 x 0,25	24	9,4	62,5	170,0

Part No.	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
24575	2 x 0,34	22	4,1	6,8	32,0
24576	3 x 0,34	22	4,3	10,2	40,0
24577	4 x 0,34	22	4,6	13,6	55,0
24578	5 x 0,34	22	5,0	17,0	60,0
24579	7 x 0,34	22	7,0	23,8	80,0
24580	12 x 0,34	22	7,4	40,8	127,0
24581	18 x 0,34	22	9,1	61,2	175,0
24582	25 x 0,34	22	10,2	85,0	238,0

Dimensions and specifications may be changed without prior notice.