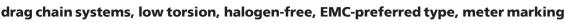
# MULTISPEED® 500-C-TPE safety against high bending in









HELUKABEL MULTISPEED 500-C-TPE 4G1 QMM / 24255 300/500 V 001041811









HELUKABEL MULTISPEED 500-C-TPE 18G1 QMM / 24259 300/500 V 001041801 €€

### **Technical data**

- Special drag chain cables for high mechanical stress adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- Temperature range flexing -30°C to +80°C fixed installation -40°C to +80°C
- Nominal voltage U<sub>0</sub>/U 300/500 V
- Test voltage 3000 V
- Insulation resistance min. 100 MOhm x km
- Minimum bending radius flexing 5x cable Ø fixed installation 3x cable Ø
- Coupling resistance max. 250 Ohm x km
- Radiation resistance up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

# Cable structure

- Tinned copper, fine wire conductors, Unilay with short pitch length
- Core insulation of special PP
- Core identification black cores with continuous white numbering
- GN-YE conductor, 3 cores and above
- 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
- Inner sheath of special-TPE, extruded as filler with pressure, natural colour
- Screen of Cu braid tinned, coverage 85% max., with optimal pitch
- Fleece separator, ensure good dismantling ability
- Outer sheath of special-TPE-O extruded as filler with pressure
- Sheath colour ocean blue (RAL 5020)
- with meter marking
- TPE: The selected tinned copper wire conductor permits the installation in aggressive environments as well as hydrogen sulfide, ammonia and sulfur dioxide

### **Properties**

- Microbe-resistance TPE
- High property of alternating bending strength
- Long life durabilitys due to low friction-resistance
- High tensile strength, abrasion- and impact resistance at low temperature
- Low adhesion, oil resistence
- Tear resistance
- Better chemical resistance
- UV and ozone resistance
- 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>.
- G = with green-yellow conductor x = without green-yellow conductor (OZ)
- Please note the cleanroom qualification when ordering.
- For more information, see introduction unscreened analogue type:
- MULTISPEED® 500-TPE, confer page 177

## **Application**

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. q. in energy drag chains. These cables are installed everywhere, where high requirements for the flexibility, abrasion, oxygen and chemical resistance are necessary.

**EMC** = Electromagnetic compatibillity

No cores y Outer Ø Con

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

**CE**= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

rartino.	No.cores x	Outer 9	cop.	weight	AVVG-NO.
	cross-sec. mm²	approx. mm	weight kg/km	approx. kg/km	
24236	2 x 0,5	6,5	30,0	85,0	20
24237	3 G 0,5	6,7	36,0	99,0	20
24238	4 G 0,5	7,2	42,0	107,0	20
24239	5 G 0,5	7,6	48,0	140,0	20
24240	7 G 0,5	11,4	64,0	176,0	20
24241	10 G 0,5	11,4	80,0	204,0	20
24242	12 G 0,5	12,4	105,0	261,0	20
24243	18 G 0,5	14,7	137,0	360,0	20
24244	25 G 0,5	17,1	320,0	530,0	20
24245	2 x 0,75	7,0	40,0	97,0	19
24246	3 G 0,75	7,3	48,0	110,0	19
24247	4 G 0,75	7,8	55,0	139,0	19
24248	5 G 0,75	8,3	66,0	160,0	19
24249	7 G 0,75	12,7	85,0	219,0	19
24250	12 G 0,75	13,7	135,0	307,0	19
24251	18 G 0,75	17,1	190,0	490,0	19
24252	25 G 0,75	19,5	275,0	640,0	19
24253	2 x 1	7,3	50,0	115,0	18
24254	3 G 1	7,6	59,0	131,0	18

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg/km	Weight approx. kg/km	AWG-No.
24255	4 G 1	8,1	70,0	160,0	18
24256	5 G 1	8,9	84,0	195,0	18
24257	7 G 1	13,6	106,0	247,0	18
24258	12 G 1	14,8	174,0	411,0	18
24259	18 G 1	18,4	240,0	547,0	18
24260	25 G 1	21,0	332,0	754,0	18
24261	3 G 1,5	8,4	75,0	160,0	16
24262	4 G 1,5	9,2	90,0	194,0	16
24263	5 G 1,5	10,2	108,0	220,0	16
24264	7 G 1,5	15,7	157,0	294,0	16
24265	12 G 1,5	17,4	240,0	490,0	16
24266	18 G 1,5	21,3	355,0	704,0	16
24267	25 G 1,5	24,3	448,0	930,0	16
24268	4 G 2,5	11,2	134,0	260,0	14
24269	5 G 2,5	12,2	175,0	330,0	14
24270	7 G 2,5	19,5	229,0	406,0	14
24271	12 G 2,5	21,7	390,0	990,0	14
24272	4 G 4	13,6	194,0	355,0	12

Dimensions and specifications may be changed without prior notice. (RCO2)