MULTISPEED® 500-C-PUR safety against high bending in drag

chain systems, low torsion, halogen-free, EMC-preferred type, halogen-free, meter marking







HELUKABEL MULTISPEED 500-C-PUR 4G1,5 QMM / 24182 300/500 V 001041798

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HELUKABEL MULTISPEED 500-C-PUR 18G1 QMM / 24179 300/500 V 001041782

CE

Technical data

- Special drag chain cables for high mechanical stress adapted to DIN VDE 0285-525-2-51/ DIN EN 50525-2-51 and DIN VDE 0285-525-2-21/DIN EN 50525-2-21
- Temperature range flexing -30°C to +80°C fixed installation -40°C to +80°C
- Nominal voltage U₀/U 300/500 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
- Coupling resistant max. 250 Ohm/km
- Radiation resistance up to 100x10⁶ cJ/kg (up to 100 Mrad)

EMC = Electromagnetic compatibillity

Cable structure

- Bare 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

- Special-TPE inner sheath, extruded as filler with pressure, grey RAL 7001
- Tinned copper braided screen, coverage 85% max., with optimal pitch
- Fleece separator, ensure good dismantling ability
- Outer sheath of special PUR
- Sheath colour black (RAL 9005)
- with meter marking

Properties

- Low adhesion
- High property of alternating bending strength
- High resistant to mechanical strain
- Long life durabilitys due to low friction-resistance
- High tensile strength, abrasion- and impact resistance at low temperature
- Tear resistance
- High stability and 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 mm².
- G = with green-yellow conductor x = without green-yellow conductor (OZ)
- unscreened analogue type:

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网址:www.zenith-industrial.com

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. g. in energy drag chains. These cables are installed everywhere, where high requirements for the flexibility, abrasion, oxygen and chemical resistance are necessary. These screened cables are particularly suitable for the interference-free transmission in instrumentation and control engineering applications. For applications which go beyond standard solutions we recommend for our especially developed enquiry sheet for energy guiding systems.

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends. **C** = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg/km	Weight approx. kg/km	AWG-No.
24156	2 x 0,5	6,4	30,0	90,0	20
24157	3 G 0,5	6,7	36,0	104,0	20
24158	4 G 0,5	7,2	42,0	118,0	20
24159	5 G 0,5	7,6	48,0	148,0	20
24160	7 G 0,5	11,4	64,0	184,0	20
24161	9 G 0,5	11,4	80,0	219,0	20
24162	12 G 0,5	12,4	105,0	276,0	20
24163	18 G 0,5	14,7	137,0	378,0	20
24164	25 G 0,5	17,1	210,0	547,0	20
24165	2 x 0,75	6,8	40,0	100,0	19
24166	3 G 0,75	7,3	48,0	117,0	19
24167	4 G 0,75	7,8	55,0	143,0	19
24168	5 G 0,75	8,3	66,0	167,0	19
24169	7 G 0,75	12,7	85,0	229,0	19
24170	12 G 0,75	13,7	135,0	319,0	19
24171	18 G 0,75	17,1	190,0	492,0	19
24172	25 G 0,75	19,5	275,0	659,0	19

Part no.	No.cores x cross-sec.	Outer Ø approx. mm	Cop. weight	Weight approx.	AWG-No.
	mm²		kg/km	kg / km	
24173	2 x 1	7,1	50,0	120,0	18
24174	3 G 1	7,6	59,0	140,0	18
24175	4 G 1	8,1	70,0	167,0	18
24176	5 G 1	8,9	84,0	201,0	18
24177	7 G 1	13,6	106,0	256,0	18
24178	12 G 1	14,6	174,0	417,0	18
24179	18 G 1	18,4	240,0	557,0	18
24180	25 G 1	21,0	332,0	766,0	18
24181	3 G 1,5	8,4	75,0	170,0	16
24182	4 G 1,5	9,1	90,0	204,0	16
24183	5 G 1,5	10,2	108,0	236,0	16
24184	7 G 1,5	15,7	157,0	309,0	16
24185	12 G 1,5	17,4	240,0	509,0	16
24186	18 G 1,5	21,3	355,0	718,0	16
24187	25 G 1,5	24,3	448,0	944,0	16
24188	4 G 2,5	11,2	134,0	280,0	14
24189	5 G 2,5	12,2	175,0	346,0	14
24190	7 G 2,5	19,7	229,0	410,0	14

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

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