

MULTISPEED®-600-C-PUR-J / MULTI-SPEED®-600-C-PUR-O

for extreme mechanical stress, EMC-preferred type



HELUKABEL® MULTISPEED® 600-C-PUR-J 1G16 QMM / 6 AWG AWM
STYLE 10553 1000V 80°C VW-1 AWM I/II A/B 1000V 80°C FT1 CE

HELUKABEL® MULTISPEED® 600-C-PUR-O 1x16 QMM / 6 AWG AWM
STYLE 10553 1000V 80°C VW-1 AWM I/II A/B 1000V 80°C FT1 CE

TECHNICAL DATA

PUR sheathed single core cable acc. to UL-Std. 758 (AWM)
Style 10553, CSA-Std. C22.2 No. 210 - AWM I/II A/B, in alignment with DIN VDE 0285-525-2-31 / DIN EN 50525-2-31

Temperature range	flexible -30°C to +80°C fixed -40°C to +80°C
Nominal voltage	VDE AC U ₀ /U 600/1000 V UL (AWM) AC 1000 V
Test voltage	3000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 5x Outer-Ø fixed 3x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, extra finely stranded acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Core insulation: PP
- Core identification: see table
- G = with protective conductor GN-YE,
x = without protective conductor
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Fleece wrapping
- Outer sheath: Special grade of full polyurethane in alignment with DIN VDE 0207-363-10-2 / DIN EN 50363-10-2 (compound type TMPU)
- Sheath colour: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation, ozone, oxygen, weathering effects, hydrolysis, microbes, coolants, hydraulic fluids, acids, alkalis, greases, seawater and wastewater

- highly abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant, low adhesion
- for outdoor use
- suitable for use in drag chains
- halogen-free
- 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 UL VW-1, CSA FT1
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2

APPLICATION

This special drag chain cable permits extended use with extreme requirements, with free movement, without tensile stresses or forced movements. Suitable for installation in long traverse paths and with high speeds in dry, moist and wet environments as well as for outdoor use. EMC= Electromagnetic compatibility; to optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for use in energy supply systems:
 - the assembly instructions must be observed
 - for further application parameters, please refer to the selection tables
 - for special applications, we recommend contacting us and using our data entry form for energy supply systems

MULTISPEED®-600-C-PUR-J, Core identification: green-yellow

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
11007726	1 G 2.5	14	6.2	39.0	65.0
11007728	1 G 4	12	6.9	58.0	88.0
25901	1 G 6	10	7.4	71.0	101.0
25902	1 G 10	8	8.8	122.0	168.0
25903	1 G 16	6	10.2	180.0	217.0
25904	1 G 25	4	11.7	282.0	342.0
25905	1 G 35	2	13.1	386.0	468.0
25906	1 G 50	1	15.4	535.0	584.0
25907	1 G 70	2/0	17.4	750.0	822.0
25908	1 G 95	3/0	19.5	1004.0	1190.0
25909	1 G 120	4/0	21.7	1260.0	1400.0
25910	1 G 150	250 kcmil	24.5	1570.0	1710.0
25911	1 G 185	350 kcmil	26.7	1911.0	2021.0
25912	1 G 240	450 kcmil	30.3	2451.0	2601.0
25913	1 G 300	550 kcmil	35.0	2997.0	3257.0

MULTISPEED®-600-C-PUR-O, Core identification: black

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
11007727	1 x 2.5	14	6.2	39.0	65.0
11007729	1 x 4	12	6.9	58.0	88.0
25282	1 x 6	10	7.4	71.0	101.0
25283	1 x 10	8	8.8	122.0	168.0
25284	1 x 16	6	10.2	180.0	217.0
25285	1 x 25	4	11.7	282.0	342.0
25286	1 x 35	2	13.1	386.0	468.0
25287	1 x 50	1	15.4	535.0	584.0
25288	1 x 70	2/0	17.4	750.0	822.0
25289	1 x 95	3/0	19.5	1004.0	1190.0
25290	1 x 120	4/0	21.7	1260.0	1400.0
25291	1 x 150	250 kcmil	24.5	1570.0	1710.0
25292	1 x 185	350 kcmil	26.7	1911.0	2021.0
25293	1 x 240	450 kcmil	30.3	2451.0	2601.0
25294	1 x 300	550 kcmil	35.0	2997.0	3257.0