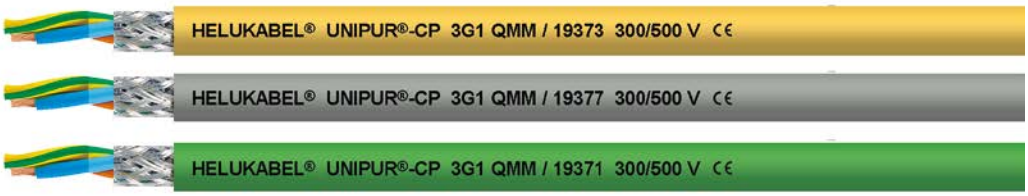
UNIPUR®-CP

abrasion-resistant, flexible in cold temperatures, EMC-preferred type



TECHNICAL DATA

PUR control and connection cable in alignment with DIN VDE 0285-525-2-21 / DIN EN 50525-2-21

Temperature range	flexible -40°C to +90°C
Nominal voltage	0.5 - 1 mm²: AC U_0/U 300/500 V 1.5 - 16 mm²: AC U_0/U 450/750 V
Test voltage core/core	3000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 12.5x Outer-Ø fixed 7.5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: TPE
- Core identification acc. to DIN VDE 0293-308,
  2 - 5 core(s): colour coded
  6 - 41 core(s): black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores,
  G = with protective conductor GN-YE, in the outer layer,
  x = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Foil wrapping
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- 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: see table
- 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
- flexible in cold temperatures
- 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

- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404

APPLICATION

Robust, flexible, screened cable with good abrasion, wear resistance and high pressure resistance for use in dry, damp and wet rooms, as well as outdoors. EMC = Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding. 1.5-16 mm²: When installed in pipes or similar closed systems, the cable is permitted for use up to and including 1000 V alternating voltage or 750 V direct voltage to earth.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	blue (RAL 5015) Part no.	brown (RAL 8003) Part no.	yellow (RAL 1021) Part no.	grey (RAL 7001) Part no.	green (RAL 6018) Part no.	orange (RAL 2003) Part no.	red (RAL 3000) Part no.	purple (RAL 4005) Part no.
2 x 0.5	20	6.4	35.0	46.0	**19150**	**19152**	**19153**	**19157**	**19151**	**19155**	**19154**	**19156**
3 G 0.5	20	6.8	42.0	56.0	**19160**	**19162**	**19163**	**19167**	**19161**	**19165**	**19164**	**19166**
4 G 0.5	20	7.3	47.0	62.0	**19170**	**19172**	**19173**	**19177**	**19171**	**19175**	**19174**	**19176**
5 G 0.5	20	7.9	56.0	75.0	**19180**	**19182**	**19183**	**19187**	**19181**	**19185**	**19184**	**19186**
7 G 0.5	20	9.4	69.0	98.0	**19190**	**19192**	**19193**	**19197**	**19191**	**19195**	**19194**	**19196**
12 G 0.5	20	11.3	108.0	158.0	**19200**	**19202**	**19203**	**19207**	**19201**	**19205**	**19204**	**19206**
18 G 0.5	20	13.7	145.0	216.0	**19210**	**19212**	**19213**	**19217**	**19211**	**19215**	**19214**	**19216**
25 G 0.5	20	16.3	240.0	315.0	**19220**	**19222**	**19223**	**19227**	**19221**	**19225**	**19224**	**19226**
34 G 0.5	20	18.6	312.0	371.0	**19230**	**19232**	**19233**	**19237**	**19231**	**19235**	**19234**	**19236**
41 G 0.5	20	20.4	348.0	442.0	**19240**	**19242**	**19243**	**19247**	**19241**	**19245**	**19244**	**19246**
2 x 0.75	19	6.8	40.0	60.0	**19250**	**19252**	**19253**	**19257**	**19251**	**19255**	**19254**	**19256**
3 G 0.75	19	7.1	52.0	68.0	**19260**	**19262**	**19263**	**19267**	**19261**	**19265**	**19264**	**19266**
4 G 0.75	19	7.7	60.0	78.0	**19270**	**19272**	**19273**	**19277**	**19271**	**19275**	**19274**	**19276**
5 G 0.75	19	8.6	71.0	95.0	**19280**	**19282**	**19283**	**19287**	**19281**	**19285**	**19284**	**19286**

Continued on next page

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No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	blue (RAL 5015) Part no.	brown (RAL 8003) Part no.	yellow (RAL 1021) Part no.	grey (RAL 7001) Part no.	green (RAL 6018) Part no.	orange (RAL 2003) Part no.	red (RAL 3000) Part no.	purple (RAL 4005) Part no.
6 G 0.75	19	9.3	80.0	112.0	**19290**	**19292**	**19293**	**19297**	**19291**	**19295**	**19294**	**19296**
7 G 0.75	19	10.3	91.0	138.0	**19300**	**19302**	**19303**	**19307**	**19301**	**19305**	**19304**	**19306**
12 G 0.75	19	12.5	142.0	207.0	**19310**	**19312**	**19313**	**19317**	**19311**	**19315**	**19314**	**19316**
18 G 0.75	19	14.8	212.0	293.0	**19320**	**19322**	**19323**	**19327**	**19321**	**19325**	**19324**	**19326**
25 G 0.75	19	17.9	281.0	413.0	**19330**	**19332**	**19333**	**19337**	**19331**	**19335**	**19334**	**19336**
34 G 0.75	19	20.3	345.0	523.0	**19340**	**19342**	**19343**	**19347**	**19341**	**19345**	**19344**	**19346**
41 G 0.75	19	22.1	400.0	609.0	**19350**	**19352**	**19353**	**19357**	**19351**	**19355**	**19354**	**19356**
2 x 1	18	7.2	50.0	65.0	**19360**	**19362**	**19363**	**19367**	**19361**	**19365**	**19364**	**19366**
3 G 1	18	7.6	60.0	76.0	**19370**	**19372**	**19373**	**19377**	**19371**	**19375**	**19374**	**19376**
4 G 1	18	8.4	71.0	89.0	**19380**	**19382**	**19383**	**19387**	**19381**	**19385**	**19384**	**19386**
5 G 1	18	9.2	88.0	108.0	**19390**	**19392**	**19393**	**19397**	**19391**	**19395**	**19394**	**19396**
6 G 1	18	10.1	97.0	141.0	**19400**	**19402**	**19403**	**19407**	**19401**	**19405**	**19404**	**19406**
7 G 1	18	11.2	111.0	187.0	**19410**	**19412**	**19413**	**19417**	**19411**	**19415**	**19414**	**19416**
12 G 1	18	13.5	184.0	240.0	**19420**	**19422**	**19423**	**19427**	**19421**	**19425**	**19424**	**19426**
18 G 1	18	16.1	260.0	335.0	**19430**	**19432**	**19433**	**19437**	**19431**	**19435**	**19434**	**19436**
25 G 1	18	19.4	349.0	484.0	**19440**	**19442**	**19443**	**19447**	**19441**	**19445**	**19444**	**19446**
34 G 1	18	22.2	486.0	627.0	**19450**	**19452**	**19453**	**19457**	**19451**	**19455**	**19454**	**19456**
41 G 1	18	24.0	531.0	738.0	**19460**	**19462**	**19463**	**19467**	**19461**	**19465**	**19464**	**19466**
2 x 1.5	16	8.6	63.0	97.0	**19470**	**19472**	**19473**	**19477**	**19471**	**19475**	**19474**	**19476**
3 G 1.5	16	9.1	80.0	119.0	**19480**	**19482**	**19483**	**19487**	**19481**	**19485**	**19484**	**19486**
4 G 1.5	16	10.1	97.0	152.0	**19490**	**19492**	**19493**	**19497**	**19491**	**19495**	**19494**	**19496**
5 G 1.5	16	11.2	119.0	168.0	**19500**	**19502**	**19503**	**19507**	**19501**	**19505**	**19504**	**19506**
6 G 1.5	16	12.1	121.0	218.0	**19510**	**19512**	**19513**	**19517**	**19511**	**19515**	**19514**	**19516**
7 G 1.5	16	13.6	147.0	243.0	**19520**	**19522**	**19523**	**19527**	**19521**	**19525**	**19524**	**19526**
12 G 1.5	16	16.3	267.0	317.0	**19530**	**19532**	**19533**	**19537**	**19531**	**19535**	**19534**	**19536**
16 G 1.5	16	18.5	315.0	473.0	**-**	**-**	**-**	**11018126**	**-**	**-**	**-**	**-**
18 G 1.5	16	19.6	374.0	481.0	**19540**	**19542**	**19543**	**19547**	**19541**	**19545**	**19544**	**19546**
25 G 1.5	16	23.8	526.0	674.0	**19550**	**19552**	**19553**	**19557**	**19551**	**19555**	**19554**	**19556**
34 G 1.5	16	27.0	629.0	881.0	**19560**	**19562**	**19563**	**19567**	**19561**	**19565**	**19564**	**19566**
41 G 1.5	16	29.3	801.0	1027.0	**19570**	**19572**	**19573**	**19577**	**19571**	**19575**	**19574**	**19576**
2 x 2.5	14	10.2	96.0	129.0	**19580**	**19582**	**19583**	**19587**	**19581**	**19585**	**19584**	**19586**
3 G 2.5	14	10.9	144.0	158.0	**19590**	**19592**	**19593**	**19597**	**19591**	**19595**	**19594**	**19596**
4 G 2.5	14	11.9	148.0	196.0	**19600**	**19602**	**19603**	**19607**	**19601**	**19605**	**19604**	**19606**
5 G 2.5	14	13.2	181.0	241.0	**19610**	**19612**	**19613**	**19617**	**19611**	**19615**	**19614**	**19616**
7 G 2.5	14	16.3	255.0	317.0	**19620**	**19622**	**19623**	**19627**	**19621**	**19625**	**19624**	**19626**
12 G 2.5	14	20.0	441.0	496.0	**19630**	**19632**	**19633**	**19637**	**19631**	**19635**	**19634**	**19636**
2 x 4	12	11.8	120.0	158.0	**19640**	**19642**	**19643**	**19647**	**19641**	**19645**	**19644**	**19646**
3 G 4	12	12.7	174.0	261.0	**19650**	**19652**	**19653**	**19657**	**19651**	**19655**	**19654**	**19656**
4 G 4	12	14.2	230.0	316.0	**19660**	**19662**	**19663**	**19667**	**19661**	**19665**	**19664**	**19666**
5 G 4	12	15.7	273.0	384.0	**19670**	**19672**	**19673**	**19677**	**19671**	**19675**	**19674**	**19676**
7 G 4	12	19.3	316.0	592.0	**19680**	**19682**	**19683**	**19687**	**19681**	**19685**	**19684**	**19686**
2 x 6	10	13.6	173.0	259.0	**19690**	**19692**	**19693**	**19697**	**19691**	**19695**	**19694**	**19696**
3 G 6	10	14.6	240.0	394.0	**19700**	**19702**	**19703**	**19707**	**19701**	**19705**	**19704**	**19706**
4 G 6	10	16.1	305.0	483.0	**19710**	**19712**	**19713**	**19717**	**19711**	**19715**	**19714**	**19716**
5 G 6	10	18.0	439.0	592.0	**19720**	**19722**	**19723**	**19727**	**19721**	**19725**	**19724**	**19726**
7 G 6	10	21.8	505.0	714.0	**19730**	**19732**	**19733**	**19737**	**19731**	**19735**	**19734**	**19736**
3 G 10	8	18.0	350.0	576.0	**19740**	**19742**	**19743**	**19747**	**19741**	**19745**	**19744**	**19746**
4 G 10	8	19.9	535.0	729.0	**19750**	**19752**	**19753**	**19757**	**19751**	**19755**	**19754**	**19756**
5 G 10	8	22.2	592.0	914.0	**19760**	**19762**	**19763**	**19767**	**19761**	**19765**	**19764**	**19766**
3 G 16	6	20.8	585.0	960.0	**19770**	**19772**	**19773**	**19777**	**19771**	**19775**	**19774**	**19776**
4 G 16	6	23.1	740.0	1813.0	**19780**	**19782**	**19783**	**19787**	**19781**	**19785**	**19784**	**19786**
5 G 16	6	25.5	895.0	1827.0	**19790**	**19792**	**19793**	**19797**	**19791**	**19795**	**19794**	**19796**