

NANOFLEX® HC* 500 cut-resistant, meter marking

HELUKABEL NANOFLEX® HC 500 3G1,5QMM/27071 300/500V 001091204 CE

**Technical data**

- Special PUR sheathed cable acc. to DIN VDE 0285-525-1 / DIN EN 50525-1
- **Temperature range**
flexing -5°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage** U₀/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Outer sheath of special **full-polyurethane** compound type TMPU to DIN EN 50363-10-2
- Sheath colour light grey (RAL 7035)
- with meter marking

Properties

- Resistant to UV radiation, Oxygen, Ozone, Hydrolysis, Microbes
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- Good cleaning properties
- Resistant to all standard detergents

Note

- G = with green-yellow conductor
x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- screened analogue type: **NANOFLEX®HC 500-C**, confer page 117
- *Hygienic Cable

Application

Special PUR cable for the food and beverage industry; outer sheath with antimicrobial properties increases process reliability in all applications in which food and beverages are processed unpacked and unsealed, e. g. processing of dairy products, meat, fish; production of convenience foods, brewery and beverage industry.

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

Part no.	No.cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
27031	2 x 0,5	4,8	10,0	45,0	20
27032	3 G 0,5	5,1	14,0	55,0	20
27033	3 x 0,5	5,1	14,0	55,0	20
27034	4 G 0,5	5,5	19,0	65,0	20
27035	4 x 0,5	5,5	19,0	65,0	20
27036	5 G 0,5	6,2	24,0	75,0	20
27037	5 x 0,5	6,2	24,0	75,0	20
27038	7 G 0,5	7,2	34,0	90,0	20
27039	7 x 0,5	7,2	34,0	90,0	20
27040	10 G 0,5	8,3	48,0	120,0	20
27041	12 G 0,5	8,7	58,0	135,0	20
27042	18 G 0,5	10,7	86,0	205,0	20
27043	25 G 0,5	12,6	120,0	270,0	20
27044	2 G 0,75	5,3	14,0	44,0	19
27045	3 G 0,75	5,6	22,0	53,0	19
27046	3 G 0,75	5,6	22,0	53,0	19
27047	4 G 0,75	6,3	29,0	64,0	19
27048	4 x 0,75	6,3	29,0	64,0	19
27049	5 G 0,75	6,9	36,0	76,0	19
27050	5 x 0,75	6,9	36,0	76,0	19
27051	7 G 0,75	7,5	50,0	96,0	19
27052	7 x 0,75	7,5	50,0	96,0	19
27053	10 G 0,75	9,2	72,0	140,0	19
27054	12 G 0,75	9,8	86,0	170,0	19
27055	18 G 0,75	12,2	130,0	260,0	19
27056	25 G 0,75	14,3	180,0	282,0	19
27057	2 x 1	5,6	19,0	53,0	18
27058	3 G 1	5,9	29,0	63,0	18
27059	3 x 1	5,9	29,0	63,0	18
27060	4 G 1	6,6	38,0	75,0	18

Part no.	No.cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
27061	4 x 1	6,6	38,0	75,0	18
27062	5 G 1	7,3	48,0	89,0	18
27063	5 x 1	7,3	48,0	89,0	18
27064	7 G 1	8,1	67,0	115,0	18
27065	7 x 1	8,1	67,0	115,0	18
27066	10 G 1	9,8	96,0	166,0	18
27067	12 G 1	10,4	115,0	201,0	18
27068	18 G 1	12,9	173,0	289,0	18
27069	25 G 1	15,4	240,0	380,0	18
27070	2 x 1,5	6,4	29,0	68,0	16
27071	3 G 1,5	6,8	43,0	87,0	16
27072	3 x 1,5	6,8	43,0	87,0	16
27073	4 G 1,5	7,4	58,0	106,0	16
27074	4 x 1,5	7,4	58,0	106,0	16
27075	5 G 1,5	8,3	72,0	131,0	16
27076	5 x 1,5	8,3	72,0	131,0	16
27077	7 G 1,5	10,9	101,0	173,0	16
27078	7 x 1,5	10,9	101,0	173,0	16
27079	12 G 1,5	11,8	173,0	293,0	16
27080	18 G 1,5	14,6	259,0	454,0	16
27081	25 G 1,5	17,4	360,0	641,0	16
27082	2 x 2,5	7,8	48,0	110,0	14
27083	3 G 2,5	8,3	72,0	146,0	14
27084	4 G 2,5	9,2	96,0	183,0	14
27085	5 G 2,5	10,1	120,0	222,0	14
27086	7 G 2,5	11,2	168,0	293,0	14
27087	12 G 2,5	14,8	288,0	512,0	14
27088	4 G 4	10,9	154,0	291,0	12
27089	5 G 4	12,1	192,0	355,0	12

Dimensions and specifications may be changed without prior notice. (RA02)



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-Clean