

NANOFLEX® HC*500 cut-resistant, meter marking



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



Technical data

- Special polyurethane sheathed cable according to DIN VDE 0245, 0281
- **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 MΩm 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, fine wire stranded according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 or IEC 60228 cl. 5
- Special PVC core insulation TI2 according to DIN VDE 0281 Part 1
- Black cores with sequential white numbering in accordance with DIN VDE 0293
- Green-yellow earth core in the outer layer, 3 cores and more
- Cores stranded in layers with optimal lay-lengths
- Outer sheath from special **fullpolyurethane** TMPU according to DIN EN 50363-10-2
- Sheath colour - light grey (RAL 7035)
- With meter marking

Properties

- Resistant to UV radiation, oxygen, ozone, hydrolysis, microbes
- Self-extinguishing and flame retardant in accordance to VDE 0482-332-1-2, DIN EN 60332-1/ IEC 60332-1 (conforms to DIN VDE 0472 Part 804 Test method B)
- The materials used in manufacture are free of silicone, cadmium and substances that impair paint wetting
- Good cleaning properties
- Resistant to all standard detergents

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- **screened analogue type:**
NANOFLEX®HC 500-C, see page A 92
- *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

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

Part no.	No. cores x cross-sec. mm²	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	5,7	19,0	65,0	20
27035	4 x 0,5	5,7	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	8,8	48,0	120,0	20
27041	12 G 0,5	9,1	58,0	135,0	20
27042	18 G 0,5	10,7	86,0	205,0	20
27043	25 G 0,5	13,2	120,0	270,0	20
27044	2 G 0,75	5,4	14,0	44,0	18
27045	3 G 0,75	5,7	22,0	53,0	18
27046	3 G 0,75	5,7	22,0	53,0	18
27047	4 G 0,75	6,2	29,0	64,0	18
27048	4 x 0,75	6,2	29,0	64,0	18
27049	5 G 0,75	6,8	36,0	76,0	18
27050	5 x 0,75	6,8	36,0	76,0	18
27051	7 G 0,75	8,1	50,0	96,0	18
27052	7 x 0,75	8,1	50,0	96,0	18
27053	10 G 0,75	9,6	72,0	140,0	18
27054	12 G 0,75	9,6	86,0	170,0	18
27055	18 G 0,75	11,9	130,0	260,0	18
27056	25 G 0,75	14,5	180,0	282,0	18
27057	2 x 1	5,7	19,0	53,0	17
27058	3 G 1	6,0	29,0	63,0	17
27059	3 G 1	6,0	29,0	63,0	17
27060	4 G 1	6,6	38,0	75,0	17

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
27061	4 x 1	6,6	38,0	75,0	17
27062	5 G 1	7,1	48,0	89,0	17
27063	5 x 1	7,1	48,0	89,0	17
27064	7 G 1	8,6	67,0	115,0	17
27065	7 x 1	8,6	67,0	115,0	17
27066	10 G 1	10,2	96,0	166,0	17
27067	12 G 1	10,7	115,0	201,0	17
27068	18 G 1	12,9	173,0	289,0	17
27069	25 G 1	14,9	240,0	380,0	17
27070	2 x 1,5	6,2	29,0	68,0	16
27071	3 G 1,5	6,6	43,0	87,0	16
27072	3 x 1,5	6,6	43,0	87,0	16
27073	4 G 1,5	7,2	58,0	106,0	16
27074	4 x 1,5	7,2	58,0	106,0	16
27075	5 G 1,5	8,2	72,0	131,0	16
27076	5 x 1,5	8,2	72,0	131,0	16
27077	7 G 1,5	9,8	101,0	173,0	16
27078	7 x 1,5	9,8	101,0	173,0	16
27079	12 G 1,5	12,0	173,0	293,0	16
27080	18 G 1,5	14,5	259,0	454,0	16
27081	25 G 1,5	17,8	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	12,3	168,0	293,0	14
27087	12 G 2,5	15,3	288,0	512,0	14
27088	4 G 4	11,0	154,0	291,0	12
27089	5 G 4	12,7	192,0	355,0	12

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