

# NANOFLEX® HC\* 500-C EMC preferred type, cut-resistant, screened, no inner sheath, meter marking

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HELUKABEL NANOFLEX® HC 500-C 3G,075QMM/27120 300/500V 001091104 C€



## Technical data

- Special PUR sheathed cable adapted 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** U<sub>0</sub>/U 300/500 V
- **Test voltage** 3000 V
- **Breakdown voltage** min. 6000 V
- **Insulation resistance**  
Min. 20 MOhm x km
- **Coupling resistance**  
max. 250 Ohm/km
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 5x cable Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> 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 special PVC compound type TI2 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
- Separating foil
- Tinned copper braided screen, approx. 85% coverage
- 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 mm<sup>2</sup>.
- Unscreened analogue type: **NANOFLEX® HC 500**, confer page 116
- \*Hygienic Cable

## Application

Screened 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.

EMC = Electromagnetic compatibility

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. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.	Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
27105	2 x 0,5	5,7	35,0	47,0	20	27135	4 G 1	7,2	71,0	100,0	18
27107	3 G 0,5	5,9	42,0	57,0	20	27136	5 x 1	8,0	88,0	128,0	18
27106	3 x 0,5	5,9	42,0	57,0	20	27137	5 G 1	8,0	88,0	128,0	18
27108	4 G 0,5	6,4	47,0	60,0	20	27138	7 x 1	8,7	111,0	157,0	18
27109	4 x 0,5	6,4	47,0	60,0	20	27139	7 G 1	8,7	111,0	157,0	18
27110	5 x 0,5	6,9	56,0	75,0	20	27140	10 G 1	11,2	150,0	230,0	18
27111	5 G 0,5	6,9	56,0	75,0	20	27141	12 G 1	11,4	184,0	262,0	18
27112	7 G 0,5	7,6	69,0	97,0	20	27142	18 G 1	13,6	260,0	381,0	18
27113	7 x 0,5	7,6	69,0	97,0	20	27143	25 G 1	16,2	349,0	535,0	18
27114	10 G 0,5	9,6	94,0	133,0	20	27144	2 x 1,5	7,0	63,0	87,0	16
27115	12 G 0,5	9,7	108,0	158,0	20	27145	3 x 1,5	7,4	80,0	102,0	16
27116	18 G 0,5	11,5	145,0	218,0	20	27146	3 G 1,5	7,4	80,0	102,0	16
27117	25 G 0,5	13,7	240,0	315,0	20	27147	4 x 1,5	8,1	97,0	127,0	16
27118	2 x 0,75	6,1	40,0	60,0	19	27148	4 G 1,5	8,1	97,0	127,0	16
27119	3 x 0,75	6,3	52,0	67,0	19	27149	5 x 1,5	9,0	119,0	159,0	16
27120	3 G 0,75	6,3	52,0	67,0	19	27150	5 G 1,5	9,0	119,0	159,0	16
27121	4 G 0,75	6,8	60,0	76,0	19	27151	7 x 1,5	9,8	147,0	207,0	16
27122	4 x 0,75	6,8	60,0	76,0	19	27152	7 G 1,5	9,8	147,0	207,0	16
27123	5 x 0,75	7,4	71,0	92,0	19	27153	12 G 1,5	12,8	267,0	340,0	16
27124	5 G 0,75	7,4	71,0	92,0	19	27154	18 G 1,5	15,6	374,0	480,0	16
27125	7 G 0,75	8,2	91,0	131,0	19	27155	25 G 1,5	18,4	526,0	704,0	16
27126	7 x 0,75	8,2	91,0	131,0	19	27156	2 x 2,5	8,4	96,0	131,0	14
27127	10 G 0,75	10,3	137,0	180,0	19	27157	3 G 2,5	8,8	144,0	168,0	14
27128	12 G 0,75	10,5	142,0	204,0	19	27158	4 G 2,5	9,8	148,0	194,0	14
27129	18 G 0,75	12,7	212,0	290,0	19	27159	5 G 2,5	10,8	181,0	222,0	14
27130	25 G 0,75	15,0	281,0	413,0	19	27160	7 G 2,5	11,9	255,0	345,0	14
27131	2 x 1	6,4	50,0	66,0	18	27161	12 G 2,5	15,8	441,0	570,0	14
27132	3 G 1	6,7	60,0	82,0	18	27162	4 G 4	11,6	230,0	310,0	12
27133	3 x 1	6,7	60,0	82,0	18	27163	5 G 4	12,8	273,0	386,0	12
27134	4 x 1	7,2	71,0	100,0	18						

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