

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

A

new



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



Technical data

- Special polyurethane sheathed cable according to DIN VDE 0245 part 201 to 1,5 mm², according to DIN VDE 0245 part 102 from 2,5 mm²
- **Temperature range**
flexing -5 °C to +80 °C
fixed installation -40 °C to +80 °C
- **Nominal voltage** U₀/U 300/500 V
- **Test voltage** 3000 V
- **Breakdown voltage**
min. 6000 V
- **Insulation resistance**
Min. 20 MOhm x km
- **Minimum bending radius**
flexing 10x cable ø
fixed installation 5x cable ø
- **Radiation resistance**
up to 100x10⁶ CJ/kg (up to 100 Mrad)
- **Coupling resistance**
max. 250 Ohm/km

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
- Separating foil
- Braided screening of tinned copper wires, coverage approx. 85%
- Outer sheath from special **fullpolyurethane** TPU 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)
- **Unscreened analogue type:**
NANOFLEX® HC 500, see page A 91
- *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 optimise 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/EG.

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
27105	2 x 0,5	5,3	35,0	47,0	20
27106	3 x 0,5	5,6	42,0	57,0	20
27107	3 x 0,5	5,6	42,0	57,0	20
27108	4 G 0,5	6,2	47,0	60,0	20
27109	4 x 0,5	6,2	47,0	60,0	20
27110	5 x 0,5	6,5	56,0	75,0	20
27111	5 G 0,5	6,5	56,0	75,0	20
27112	7 G 0,5	7,5	69,0	97,0	20
27113	7 x 0,5	7,5	69,0	97,0	20
27114	10 G 0,5	9,0	94,0	133,0	20
27115	12 G 0,5	9,2	108,0	158,0	20
27116	18 G 0,5	10,9	145,0	218,0	20
27117	25 G 0,5	13,3	240,0	315,0	20
27118	2 x 0,75	5,8	40,0	60,0	18
27119	3 x 0,75	6,1	52,0	67,0	18
27120	3 G 0,75	6,1	52,0	67,0	18
27121	4 G 0,75	6,5	60,0	76,0	18
27122	4 x 0,75	6,5	60,0	76,0	18
27123	5 x 0,75	7,1	71,0	92,0	18
27124	5 G 0,75	7,1	71,0	92,0	18
27125	7 G 0,75	8,3	91,0	131,0	18
27126	7 x 0,75	8,3	91,0	131,0	18
27127	10 G 0,75	10,1	137,0	180,0	18
27128	12 G 0,75	10,3	142,0	204,0	18
27129	18 G 0,75	12,1	212,0	290,0	18
27130	25 G 0,75	14,9	281,0	413,0	18
27131	2 x 1	6,1	50,0	66,0	17
27132	3 G 1	6,3	60,0	82,0	17
27133	3 x 1	6,3	60,0	82,0	17
27134	4 x 1	6,9	71,0	100,0	17

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
27135	4 G 1	6,9	71,0	100,0	17
27136	5 x 1	7,5	88,0	128,0	17
27137	5 G 1	7,5	88,0	128,0	17
27138	7 x 1	8,9	111,0	157,0	17
27139	7 G 1	8,9	111,0	157,0	17
27140	10 G 1	10,7	150,0	230,0	17
27141	12 G 1	10,9	184,0	262,0	17
27142	18 G 1	13,0	260,0	381,0	17
27143	25 G 1	15,9	349,0	535,0	17
27144	2 x 1,5	6,6	63,0	87,0	16
27145	3 x 1,5	6,9	80,0	102,0	16
27146	3 G 1,5	6,9	80,0	102,0	16
27147	4 x 1,5	7,5	97,0	127,0	16
27148	4 G 1,5	7,5	97,0	127,0	16
27149	5 x 1,5	8,4	119,0	159,0	16
27150	5 G 1,5	8,4	119,0	159,0	16
27151	7 x 1,5	10,0	147,0	207,0	16
27152	7 G 1,5	10,0	147,0	207,0	16
27153	12 G 1,5	12,1	267,0	340,0	16
27154	18 G 1,5	14,6	374,0	480,0	16
27155	25 G 1,5	17,9	526,0	704,0	16
27156	2 x 2,5	8,2	96,0	131,0	14
27157	3 x 2,5	8,6	144,0	168,0	14
27158	4 G 2,5	9,6	148,0	194,0	14
27159	5 G 2,5	10,6	181,0	222,0	14
27160	7 G 2,5	12,6	255,0	345,0	14
27161	12 G 2,5	15,5	441,0	570,0	14
27162	4 G 4	11,0	230,0	310,0	12
27163	5 G 4	12,3	273,0	386,0	12

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