

# NANOFLEX® HC\*TRONIC flexible, colour code to DIN 47100, meter marking



HELUKABEL NANOFLEX® HC TRONIC 7x0,34QMMM/27202 001091147 CE



## Technical data

- Special-PUR data cable adapted to DIN VDE 0812
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Peak operating voltage**  
(not for purposes of high current and power installation)  
0,14 mm<sup>2</sup> = 350 V  
≥ 0,25 mm<sup>2</sup> = 500 V
- **Test voltage**  
up to 0,25 mm<sup>2</sup> 1200 V  
from 0,34 mm<sup>2</sup> 2000 V
- **Breakdown voltage**  
up to 0,25 mm<sup>2</sup> 2400 V  
from 0,34 mm<sup>2</sup> 4000 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Operating capacity**  
(approx. value) at 800 Hz  
0,14 mm<sup>2</sup> 120 pF/m  
≥ 0,25 mm<sup>2</sup> 150 pF/m
- **Inductance**  
approx. 0,65 mH/km
- **Impedance**  
approx. 78 Ohm
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

## Cable structure

- Bare copper-conductor, from 0,5 mm<sup>2</sup> to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Conductor construction:  
0,14 mm<sup>2</sup> = 18x0,1 mm  
0,25 mm<sup>2</sup> = 14x0,15 mm  
0,34 mm<sup>2</sup> = 7x0,25 mm
- Core insulation of special PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN 47100, without colour repetition
- Cores stranded in layers with optimal lay-lengths
- 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

- Screened analogue type: **NANOFLEX®HC TRONIC-C**, confer page 120
- \*Hygienic Cable

## Application

Special PUR data 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 <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
27164	2 x 0,14	3,5	3,0	13,0	26
27165	3 x 0,14	3,7	4,0	16,0	26
27166	4 x 0,14	3,9	5,0	19,0	26
27167	5 x 0,14	4,3	7,0	22,0	26
27168	6 x 0,14	4,6	8,0	25,0	26
27169	7 x 0,14	4,6	9,0	28,0	26
27170	8 x 0,14	5,5	11,0	35,0	26
27171	10 x 0,14	5,9	13,0	41,0	26
27172	12 x 0,14	6,1	16,0	48,0	26
27173	14 x 0,14	6,3	19,0	53,0	26
27174	16 x 0,14	6,9	22,0	59,0	26
27175	18 x 0,14	7,2	24,0	65,0	26
27176	20 x 0,14	7,5	27,0	70,0	26
27177	21 x 0,14	7,6	28,0	77,0	26
27178	24 x 0,14	8,5	32,0	87,0	26
27179	25 x 0,14	8,6	34,0	91,0	26

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.
27180	2 x 0,25	3,8	5,0	18,0	24
27181	3 x 0,25	4,0	7,0	22,0	24
27182	4 x 0,25	4,3	10,0	26,0	24
27183	5 x 0,25	4,7	12,0	30,0	24
27184	6 x 0,25	5,3	14,0	36,0	24
27185	7 x 0,25	5,3	17,0	42,0	24
27186	8 x 0,25	6,1	19,0	49,0	24
27187	10 x 0,25	6,8	24,0	57,0	24
27188	12 x 0,25	7,0	29,0	66,0	24
27189	14 x 0,25	7,3	34,0	75,0	24
27190	16 x 0,25	7,7	38,0	84,0	24
27191	18 x 0,25	8,3	43,0	92,0	24
27192	19 x 0,25	8,3	46,0	98,0	24
27193	20 x 0,25	8,7	48,0	101,0	24
27194	21 x 0,25	8,8	50,0	107,0	24
27195	24 x 0,25	9,8	60,0	120,0	24
27196	25 x 0,25	10,0	61,0	132,0	24

Continuation ▶

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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.
27197	2 x 0,34	4,2	7,0	22,0	22
27198	3 x 0,34	4,4	10,0	30,0	22
27199	4 x 0,34	4,8	13,0	43,0	22
27200	5 x 0,34	5,4	16,0	54,0	22
27201	6 x 0,34	5,9	20,0	58,0	22
27202	7 x 0,34	5,9	23,0	61,0	22
27203	8 x 0,34	7,1	26,0	73,0	22
27204	10 x 0,34	7,6	33,0	82,0	22
27205	12 x 0,34	7,8	39,0	102,0	22
27206	14 x 0,34	8,4	46,0	108,0	22
27207	16 x 0,34	8,8	52,0	126,0	22
27208	18 x 0,34	9,3	59,0	143,0	22
27209	20 x 0,34	1,0	65,0	160,0	22
27210	21 x 0,34	10,1	69,0	166,0	22
27211	24 x 0,34	11,2	78,0	186,0	22
27212	25 x 0,34	11,4	82,0	192,0	22
27213	2 x 0,5	4,6	10,0	40,0	20
27214	3 x 0,5	4,9	14,0	46,0	20
27215	4 x 0,5	5,5	19,0	55,0	20
27216	5 x 0,5	6,0	24,0	64,0	20
27217	6 x 0,5	6,8	29,0	73,0	20

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.
27218	7 x 0,5	6,8	34,0	81,0	20
27219	8 x 0,5	7,8	38,0	97,0	20
27220	10 x 0,5	8,7	48,0	116,0	20
27221	12 x 0,5	8,9	58,0	135,0	20
27222	16 x 0,5	10,0	77,0	168,0	20
27223	20 x 0,5	11,2	96,0	213,0	20
27224	24 x 0,5	12,7	116,0	241,0	20
27225	2 x 0,75	5,2	14,0	47,0	19
27226	3 x 0,75	5,5	22,0	54,0	19
27227	4 x 0,75	6,0	29,0	66,0	19
27228	5 x 0,75	6,7	36,0	80,0	19
27229	7 x 0,75	7,4	50,0	110,0	18
27230	8 x 0,75	8,7	58,0	125,0	19
27231	10 x 0,75	9,6	72,0	148,0	19
27232	12 x 0,75	9,9	86,0	176,0	19
27233	16 x 0,75	11,1	115,0	220,0	19
27234	20 x 0,75	12,5	144,0	276,0	19

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



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-Clean