

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

new



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

CE



Technical data

- Special polyurethane data cable according to DIN VDE 0245, 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 mm² = 350 V
≥0,25 mm² = 500 V
- **Test voltage**
to 0,25 mm² 1200 V
from 0,34 mm² 2000 V
- **Breakdown voltage**
to 0,25 mm² 2400 V
from 0,34 mm² 4000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Operating capacity**
(approx. value) at 800 Hz
0,14 mm² 120 pF/m
≥0,25 mm² 150 pF/m
- **Inductance** approx. 0,65 mH/km
- **Impedance** approx. 78 Ωm
- **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, fine wire conductor, fine wire stranded according to DIN VDE 0295 cl.5 or 0245 or IEC 60228
- Wire make-up for:
0,14 mm² = 18x0,1 mm
0,25 mm² = 14x0,15 mm
0,34 mm² = 7x0,25 mm
- Special PVC core insulation TI2, to DIN VDE 0281 part 1
- Core identification in accordance with DIN 47100, but without colour repetition
- Cores stranded in layers with optimal lay-lengths
- Outer sheath from special **full polyurethane** TPU according to DIN EN 50363-10-2
- 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

- **Screened analogue type:**
NANOFLEX®HC TRONIC-C, see page A 95
- *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/EG.

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

Part no.	No. cores x cross-sec. mm ²	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	3,9	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	5,7	19,0	49,0	24
27187	10 x 0,25	6,6	24,0	57,0	24
27188	12 x 0,25	6,8	29,0	66,0	24
27189	14 x 0,25	7,2	34,0	75,0	24
27190	16 x 0,25	7,6	38,0	84,0	24
27191	18 x 0,25	8,1	43,0	92,0	24
27192	19 x 0,25	8,1	46,0	94,0	24
27193	20 x 0,25	8,6	48,0	101,0	24
27194	21 x 0,25	8,6	50,0	107,0	24
27195	24 x 0,25	9,4	60,0	120,0	24
27196	25 x 0,25	9,5	61,0	132,0	24

Continuation ►

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Part no.	No. cores x cross-sec. mm²	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	7,0	26,0	73,0	22
27204	10 x 0,34	7,6	33,0	82,0	22
27205	12 x 0,34	7,7	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	9,9	65,0	160,0	22
27210	21 x 0,34	9,9	69,0	166,0	22
27211	24 x 0,34	10,5	78,0	186,0	22
27212	25 x 0,34	10,7	82,0	192,0	22
27213	2 x 0,5	4,6	10,0	40,0	20
27214	3 x 0,5	4,8	14,0	46,0	20
27215	4 x 0,5	5,4	19,0	55,0	20
27216	5 x 0,5	5,9	24,0	64,0	20
27217	6 x 0,5	6,4	29,0	73,0	20

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
27218	7 x 0,5	6,4	34,0	81,0	20
27219	8 x 0,5	7,2	38,0	97,0	20
27220	10 x 0,5	8,4	48,0	116,0	20
27221	12 x 0,5	8,4	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	11,8	116,0	241,0	20
27225	2 x 0,75	5,2	14,0	47,0	18
27226	3 x 0,75	5,4	22,0	54,0	18
27227	4 x 0,75	5,9	29,0	66,0	18
27228	5 x 0,75	6,7	36,0	80,0	18
27229	7 x 0,75	7,3	50,0	110,0	18
27230	8 x 0,75	8,6	58,0	125,0	18
27231	10 x 0,75	9,6	72,0	148,0	18
27232	12 x 0,75	9,7	86,0	176,0	18
27233	16 x 0,75	11,6	115,0	220,0	18
27234	20 x 0,75	12,4	144,0	276,0	18

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

