

NANOFLEX® HC*TRONIC-C EMC preferred type, flexible, colour code to DIN 47100, screened, meter marking



Technical data

- Special-PUR data cable for electronic control 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 mm² = 350 V
≥ 0,25 mm² = 500 V
- **Test voltage**
core/core 1200 V
core/screen 800 V
- **Breakdown voltage**
min. 2400 V
- **Insulation resistance**
min. 200 MΩm x km
- **Operating capacity**
(approx.-value) at 800 Hz
core/core at 0,14 mm² = 120 pF/m
core/core ≥ 0,25 mm² = 150 pF/m
core/screen at 0,14 mm² = 240 pF/m
core/screen ≥ 0,25 mm² = 270 pF/m
- **Inductance**
approx. 0,65 mH/km
- **Impedance**
approx. 78 Ωm
- **Coupling resistance**
max. 250 Ωm/km
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper-conductor, from 0,5 mm² to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Conductor construction:
0,14 mm² = 18x0,1 mm
0,25 mm² = 14x0,15 mm
0,34 mm² = 7x0,25 mm
- Core insulation of special PVC compound type TI2 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-length
- Separating foil
- Drain stranded wire, tinned copper
- 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

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type:
NANOFLEX®HC TRONIC
- *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.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

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

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
27235	1 x 0,14	2,6	6,0	16,0	26
27236	2 x 0,14	3,9	12,0	20,0	26
27237	3 x 0,14	4,0	13,0	27,0	26
27238	4 x 0,14	4,3	15,0	32,0	26
27239	5 x 0,14	4,7	16,0	37,0	26
27240	6 x 0,14	5,2	18,0	42,0	26
27241	7 x 0,14	5,2	19,0	48,0	26
27242	8 x 0,14	5,9	21,0	55,0	26
27243	10 x 0,14	6,5	29,0	65,0	26
27244	12 x 0,14	6,7	31,0	77,0	26
27245	14 x 0,14	6,9	32,0	79,0	26
27246	16 x 0,14	7,3	43,0	89,0	26
27247	18 x 0,14	7,6	51,0	103,0	26
27248	20 x 0,14	8,3	55,0	116,0	26
27249	21 x 0,14	8,4	56,0	120,0	26
27250	24 x 0,14	8,9	62,0	131,0	26
27251	25 x 0,14	9,1	61,0	136,0	26

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
27252	1 x 0,25	3,0	7,0	27,0	24
27253	2 x 0,25	4,3	16,0	31,0	24
27254	3 x 0,25	4,5	19,0	36,0	24
27255	4 x 0,25	4,8	22,0	40,0	24
27256	5 x 0,25	5,4	27,0	51,0	24
27257	6 x 0,25	5,8	32,0	58,0	24
27258	7 x 0,25	5,8	35,0	64,0	24
27259	8 x 0,25	7,0	42,0	82,0	24
27260	10 x 0,25	7,3	50,0	85,0	24
27261	12 x 0,25	7,5	58,0	90,0	24
27262	14 x 0,25	8,1	62,0	144,0	24
27263	16 x 0,25	8,5	67,0	110,0	24
27264	18 x 0,25	9,1	78,0	142,0	24
27265	19 x 0,25	9,1	79,0	146,0	24
27266	20 x 0,25	9,5	152,0	88,0	24
27267	21 x 0,25	9,6	91,0	150,0	24
27268	24 x 0,25	10,4	96,0	163,0	24

Continuation ▶

NANOFLEX® HC*TRONIC-C EMC preferred type, flexible, colour code to DIN 47100, screened, meter marking



Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
27269	25 x 0,25	10,6	99,0	169,0	24
27270	1 x 0,34	3,2	13,0	24,0	22
27271	2 x 0,34	4,9	18,0	30,0	22
27272	3 x 0,34	5,1	22,0	37,0	22
27273	4 x 0,34	5,5	28,0	48,0	22
27274	5 x 0,34	6,0	31,0	54,0	22
27275	6 x 0,34	6,6	45,0	61,0	22
27276	7 x 0,34	6,6	51,0	67,0	22
27277	8 x 0,34	7,7	54,0	81,0	22
27278	10 x 0,34	8,4	65,0	103,0	22
27279	12 x 0,34	8,6	70,0	110,0	22
27280	14 x 0,34	9,0	81,0	153,0	22
27281	16 x 0,34	9,6	88,0	159,0	22
27282	18 x 0,34	10,1	103,0	172,0	22
27283	19 x 0,34	10,1	106,0	181,0	22
27284	20 x 0,34	10,8	112,0	191,0	22
27285	21 x 0,34	10,9	116,0	199,0	22
27286	24 x 0,34	11,7	129,0	229,0	22
27287	25 x 0,34	12,0	120,0	241,0	22
27288	1 x 0,5	3,5	15,0	40,0	20
27289	2 x 0,5	5,3	29,0	45,0	20
27290	3 x 0,5	5,6	39,0	55,0	20
27291	4 x 0,5	6,3	46,0	61,0	20
27292	5 x 0,5	6,8	52,0	76,0	20
27293	6 x 0,5	7,3	66,0	89,0	20

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
27294	7 x 0,5	7,3	68,0	98,0	20
27295	8 x 0,5	8,6	80,0	117,0	20
27296	10 x 0,5	9,4	93,0	135,0	20
27297	12 x 0,5	9,6	117,0	157,0	20
27298	14 x 0,5	10,1	122,0	190,0	20
27299	16 x 0,5	10,6	129,0	210,0	20
27300	18 x 0,5	11,3	152,0	217,0	20
27301	19 x 0,5	11,3	156,0	246,0	20
27302	20 x 0,5	12,0	173,0	275,0	20
27303	24 x 0,5	13,2	256,0	337,0	20
27304	25 x 0,5	13,7	250,0	351,0	20
27305	1 x 0,75	4,0	19,0	41,0	19
27306	2 x 0,75	5,8	38,0	59,0	19
27307	3 x 0,75	6,3	50,0	66,0	19
27308	4 x 0,75	6,8	57,0	77,0	19
27309	5 x 0,75	7,4	70,0	93,0	19
27310	6 x 0,75	8,2	87,0	113,0	19
27311	7 x 0,75	8,2	96,0	130,0	19
27312	8 x 0,75	9,7	110,0	145,0	19
27313	10 x 0,75	10,3	140,0	180,0	19
27314	12 x 0,75	10,5	151,0	202,0	19
27315	14 x 0,75	11,3	167,0	225,0	19
27316	16 x 0,75	11,9	183,0	275,0	19
27317	18 x 0,75	12,7	207,0	292,0	19
27318	19 x 0,75	12,7	221,0	322,0	19
27319	20 x 0,75	13,6	238,0	362,0	19
27320	24 x 0,75	14,9	270,0	435,0	19
27321	25 x 0,75	15,0	278,0	415,0	19

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