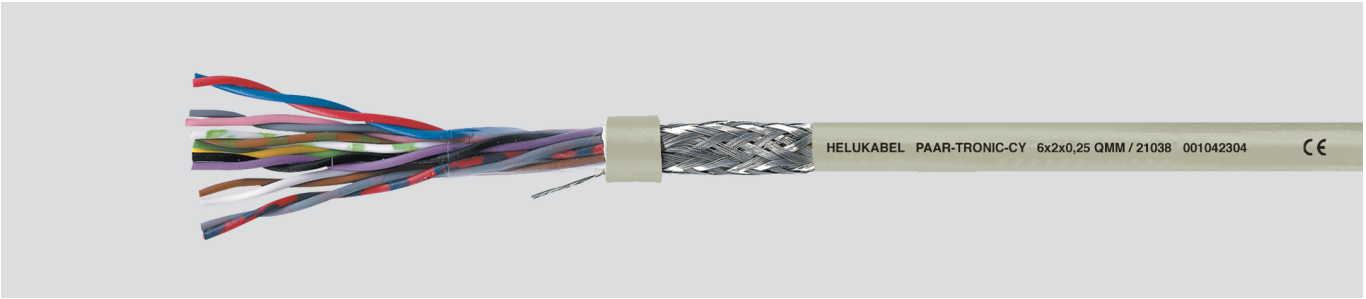
PAAR-TRONIC-CY

flexible, screened, colour coded to DIN 47100, meter marking, EMC-preferred type



Technical data

- PVC data cables adapted to DIN VDE 0812 and 0814
- **Temperature range**
  flexing -5°C to +80°C
  fixed installation -30°C to +80°C
- **Operating peak voltage** 350 V
  (not for heavy current installation purposes)
- **Test voltage**
  core/core 1200 V
  core/screen 800 V
- **Breakdown voltage**
  min. 2400 V
- **Mutual capacitance** at 800 Hz
  core/core 0,14 mm² app. 120 pF/m
  core/core 0,25 mm² app. 150 pF/m
  core/screen 0,14 mm² app. 240 pF/m
  core/screen 0,25 mm² app. 270 pF/m
- **Inductance**
  approx. 0,65 mH/km
- **Impedance**
  approx. 78 Ohm
- **k_1-coupling**
  approx. 300 pF/100 m
- **Coupling resistance**
  max. 250 Ohm/km
- **Minimum bending radius**
  flexing 10x outer Ø
  fixed installation 5x outer Ø

Cable structure

- Bare copper conductor,
  from 0,5 mm² fine wire acc. to
  DIN VDE 0295 cl.5 / IEC 60228 cl.5
- Conductor construction:
  0,14 mm² approx. 18x0,1 mm
  0,25 mm² approx. 14x0,15 mm
  0,34 mm² = 7x0,25 mm
- Core insulation of PVC
  compound type TI2 acc. to
  DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification (pair) to DIN 47100
- Cores stranded in pairs with
  optimal lay length
- Pairs stranded in layers with
  optimal lay length
- Foil wrapping
- Drain wire, tinned
- Tinned copper braided screen,
  approx. 85% coverage
- Outer sheath of PVC
  compound type TM2 acc. to
  DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour: grey (RAL 7032)
- With meter marking

Properties

- Extensively oil resistant,
  oil-/chemical resistance
  see "Technical Information"
- The materials used during manufacturing
  are cadmium-free, contain no silicone
  and are free from substances harmful
  to the wetting properties of lacquers

Tests

- Flame retardant acc. to
  DIN VDE 0482-332-1-2 /
  DIN EN 60332-1-2 / IEC 60332-1-2

Note

- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.
- Unscreened analogue type:
  PAAR-TRONIC

Application

These data control cables are used for flexible use with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air. PAAR-TRONIC-CY is well suited for use in areas subject to signal interference. The high level of screening reduces substantially the effects of electrical disturbances from parallel running wiring etc. The twisted pairs conform favourable cross-talk attenuation values.
EMC = Electromagnetic compatibility
To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.
CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No.pairs x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
21001	1 x 2 x 0,14	3,8	16,0	34,0	26
21002	2 x 2 x 0,14	5,2	18,5	40,0	26
21003	3 x 2 x 0,14	5,5	23,0	49,0	26
21004	4 x 2 x 0,14	5,9	27,0	55,0	26
21005	5 x 2 x 0,14	6,6	31,0	66,0	26

Part no.	No.pairs x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
21006	6 x 2 x 0,14	7,1	48,0	86,0	26
21007	7 x 2 x 0,14	7,1	51,0	91,0	26
21008	8 x 2 x 0,14	8,1	54,0	97,0	26
21009	10 x 2 x 0,14	9,0	59,0	109,0	26
21010	12 x 2 x 0,14	9,3	66,0	141,0	26

Continuation ▸

PAAR-TRONIC-CY

flexible, screened, colour coded to DIN 47100, meter marking, EMC-preferred type

Part no.	No.pairs x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
21011	14 x 2 x 0,14	9,7	74,0	148,0	26
21012	15 x 2 x 0,14	10,2	76,0	152,0	26
21013	16 x 2 x 0,14	10,2	79,0	155,0	26
21014	18 x 2 x 0,14	10,9	83,0	171,0	26
21015	20 x 2 x 0,14	11,4	97,0	183,0	26
21016	22 x 2 x 0,14	13,0	103,0	205,0	26
21017	24 x 2 x 0,14	13,0	111,0	228,0	26
21018	25 x 2 x 0,14	13,3	113,0	239,0	26
21019	26 x 2 x 0,14	13,3	122,0	245,0	26
21020	27 x 2 x 0,14	13,3	125,0	251,0	26
21021	28 x 2 x 0,14	13,3	128,0	258,0	26
21022	30 x 2 x 0,14	13,7	140,0	270,0	26
21023	32 x 2 x 0,14	13,9	145,0	284,0	26
21024	34 x 2 x 0,14	14,4	150,0	300,0	26
21025	36 x 2 x 0,14	14,4	156,0	316,0	26
21026	38 x 2 x 0,14	14,9	162,0	350,0	26
21027	40 x 2 x 0,14	14,9	177,0	370,0	26
21028	44 x 2 x 0,14	16,3	181,0	390,0	26
21029	46 x 2 x 0,14	16,6	195,0	430,0	26
21030	50 x 2 x 0,14	17,0	202,0	440,0	26
21031	52 x 2 x 0,14	16,8	206,0	460,0	26
21032	55 x 2 x 0,14	17,5	210,0	480,0	26
21033	1 x 2 x 0,25	4,4	15,0	45,0	24
21034	2 x 2 x 0,25	6,4	28,0	53,0	24
21035	3 x 2 x 0,25	6,8	32,0	65,0	24
21036	4 x 2 x 0,25	7,4	38,0	80,0	24
21037	5 x 2 x 0,25	8,0	55,0	98,0	24
21038	6 x 2 x 0,25	8,9	65,0	114,0	24
21039	7 x 2 x 0,25	8,9	70,0	121,0	24
21040	8 x 2 x 0,25	10,2	75,0	129,0	24
21041	10 x 2 x 0,25	11,3	110,0	157,0	24
21042	12 x 2 x 0,25	11,6	117,0	189,0	24
21043	14 x 2 x 0,25	12,2	122,0	213,0	24
21044	15 x 2 x 0,25	13,2	134,0	225,0	24
21045	16 x 2 x 0,25	13,2	143,0	237,0	24
21046	18 x 2 x 0,25	13,9	148,0	248,0	24
21047	20 x 2 x 0,25	14,5	162,0	275,0	24
21048	22 x 2 x 0,25	16,3	172,0	303,0	24
21049	24 x 2 x 0,25	16,3	223,0	330,0	24
21050	25 x 2 x 0,25	16,6	233,0	343,0	24
21051	26 x 2 x 0,25	16,6	238,0	345,0	24
21052	27 x 2 x 0,25	16,6	244,0	350,0	24
21053	28 x 2 x 0,25	16,6	249,0	360,0	24
21054	30 x 2 x 0,25	17,2	254,0	375,0	24
21055	32 x 2 x 0,25	17,7	290,0	400,0	24
21056	34 x 2 x 0,25	18,5	312,0	410,0	24
21057	36 x 2 x 0,25	18,5	322,0	420,0	24
21058	38 x 2 x 0,25	19,2	339,0	450,0	24
21059	40 x 2 x 0,25	19,2	349,0	485,0	24
21060	44 x 2 x 0,25	20,9	359,0	500,0	24
21061	46 x 2 x 0,25	21,2	398,0	540,0	24
21062	50 x 2 x 0,25	22,0	403,0	550,0	24
21063	52 x 2 x 0,25	21,6	435,0	580,0	24
21064	55 x 2 x 0,25	22,4	464,0	630,0	24
19970	1 x 2 x 0,34	4,6	16,0	58,0	22
19971	2 x 2 x 0,34	6,8	37,0	65,0	22
19972	3 x 2 x 0,34	7,1	45,0	78,0	22
19973	4 x 2 x 0,34	7,8	54,0	90,0	22
19974	5 x 2 x 0,34	8,7	64,0	110,0	22
19975	6 x 2 x 0,34	9,4	73,0	130,0	22
19976	7 x 2 x 0,34	9,4	80,0	145,0	22
19977	8 x 2 x 0,34	11,0	88,0	150,0	22
19978	9 x 2 x 0,34	11,9	99,0	170,0	22
19979	10 x 2 x 0,34	11,9	107,0	190,0	22
19980	12 x 2 x 0,34	12,3	122,0	220,0	22
19981	14 x 2 x 0,34	13,3	138,0	245,0	22
19982	16 x 2 x 0,34	14,0	154,0	250,0	22
19983	18 x 2 x 0,34	14,7	198,0	275,0	22
19984	21 x 2 x 0,34	16,3	214,4	300,0	22
19985	25 x 2 x 0,34	17,9	238,0	400,0	22
19986	27 x 2 x 0,34	17,9	262,0	410,0	22
19987	30 x 2 x 0,34	18,7	287,0	440,0	22
19988	34 x 2 x 0,34	19,9	310,0	510,0	22
19989	37 x 2 x 0,34	19,9	369,0	550,0	22
19990	40 x 2 x 0,34	20,6	393,0	590,0	22
19991	44 x 2 x 0,34	22,4	424,0	600,0	22
19992	50 x 2 x 0,34	23,4	456,0	650,0	22
19993	52 x 2 x 0,34	23,1	488,0	680,0	22
19994	56 x 2 x 0,34	24,2	518,0	750,0	22
19995	61 x 2 x 0,34	24,9	557,0	840,0	22
17047	1 x 2 x 0,5	5,2	24,0	60,0	20
17001	2 x 2 x 0,5	7,8	54,0	89,0	20
17002	3 x 2 x 0,5	8,2	70,0	104,0	20
17003	4 x 2 x 0,5	9,2	91,0	126,0	20
17004	5 x 2 x 0,5	10,0	105,0	148,0	20
17005	6 x 2 x 0,5	11,1	120,0	171,0	20
17006	8 x 2 x 0,5	13,2	144,0	290,0	20
17007	10 x 2 x 0,5	14,4	178,0	320,0	20
17008	12 x 2 x 0,5	14,8	199,0	361,0	20
17009	16 x 2 x 0,5	16,6	254,0	421,0	20
17010	20 x 2 x 0,5	18,8	302,0	580,0	20
17011	25 x 2 x 0,5	21,4	344,0	740,0	20
17048	1 x 2 x 0,75	5,7	28,0	71,0	19
17012	2 x 2 x 0,75	8,9	58,0	105,0	19
17013	3 x 2 x 0,75	9,4	84,0	128,0	19
17014	4 x 2 x 0,75	10,2	108,0	156,0	19
17015	5 x 2 x 0,75	11,4	126,0	189,0	19
17016	6 x 2 x 0,75	12,6	146,0	216,0	19
17017	8 x 2 x 0,75	14,8	180,0	309,0	19
17018	10 x 2 x 0,75	16,3	220,0	355,0	19
17019	12 x 2 x 0,75	16,8	261,0	405,0	19
17020	16 x 2 x 0,75	19,0	328,0	565,0	19
17021	20 x 2 x 0,75	21,2	392,0	700,0	19
17022	25 x 2 x 0,75	24,6	470,0	950,0	19
17049	1 x 2 x 1	6,0	46,0	75,0	18
17050	2 x 2 x 1	9,4	82,0	116,0	18
17051	3 x 2 x 1	9,9	103,0	140,0	18
17052	4 x 2 x 1	11,0	132,0	191,0	18
17053	1 x 2 x 1,5	7,2	63,0	84,0	16
17054	2 x 2 x 1,5	11,3	111,0	122,0	16
17055	3 x 2 x 1,5	11,9	136,0	194,0	16
17056	4 x 2 x 1,5	13,5	172,0	240,0	16

Dimensions and specifications may be changed without prior notice. (RB01)