

PAAR-TRONIC-CY

colour code DIN 47100, EMC-preferred type



TECHNICAL DATA

PVC data cable in alignment with DIN VDE 0812

Temperature range	flexible -5°C to +80°C fixed -30°C to +80°C
Peak operating voltage	350 V (not for high power current installation purposes)
Test voltage core/core	1200 V
Test voltage core/screen	800 V
Breakdown voltage	2400 V
Mutual capacitance core/core	at 800 Hz 0.14 - 0.25 mm ² : approx. 100 pF/m 0.34 - 1.5 mm ² : approx. 150 pF/m
Mutual capacitance core/screen	at 800 Hz 0.14 mm ² : approx. 240 pF/m 0.25 mm ² : approx. 270 pF/m
Capacitive coupling k_c	at 800 Hz, max. 300 pF/100m
Characteristic impedance	78 Ohm (approx. value)
Inductance	approx. 0.65 mH/km
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 10x Outer-Ø fixed 5x Outer-Ø

■ CABLE STRUCTURE

- Copper wire bare, 0.5 - 1.5 mm²: finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Wire structure:
0.14 mm²: approx. 18 x 0.10 mm
0.25 mm²: approx. 14 x 0.15 mm
0.34 mm²: 7 x 0.25 mm
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T12)
- Core identification acc. to DIN 47100 (paired stranding), colour coded

- x = without protective conductor
- Cores stranded in pairs with optimal lay lengths, Pairs stranded in layers with optimal lay lengths
- Foil wrapping
- Drain wire, Tinned copper
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: grey (RAL 7032)
- Length marking: in metres

■ PROPERTIES

- largely resistant to: oil, for details, 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

■ APPLICATION

Suitable for flexible applications with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, however, not suitable for outdoor use. Used as control and signal cables for systems at risk of interference radiation. Due to the dense braided screening, interference through parallel running cables is suppressed and as a result of the pair stranding, favourable crosstalk attenuation values are achieved. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

■ NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
21001	1 x 2 x 0.14	26	3.8	16.0	34.0
21002	2 x 2 x 0.14	26	5.2	18.5	40.0
21003	3 x 2 x 0.14	26	5.5	23.0	49.0
21004	4 x 2 x 0.14	26	5.9	27.0	55.0
21005	5 x 2 x 0.14	26	6.6	31.0	66.0
21006	6 x 2 x 0.14	26	7.1	48.0	86.0
21007	7 x 2 x 0.14	26	7.1	51.0	91.0
21008	8 x 2 x 0.14	26	8.1	54.0	97.0
21009	10 x 2 x 0.14	26	9.0	59.0	109.0
21010	12 x 2 x 0.14	26	9.3	66.0	141.0
21011	14 x 2 x 0.14	26	9.7	74.0	148.0
21012	15 x 2 x 0.14	26	10.2	76.0	152.0
21013	16 x 2 x 0.14	26	10.2	79.0	155.0
21014	18 x 2 x 0.14	26	10.9	83.0	171.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
21015	20 x 2 x 0.14	26	11.4	97.0	183.0
21016	22 x 2 x 0.14	26	13.0	103.0	205.0
21017	24 x 2 x 0.14	26	13.0	111.0	228.0
21018	25 x 2 x 0.14	26	13.3	113.0	239.0
21019	26 x 2 x 0.14	26	13.3	122.0	245.0
21020	27 x 2 x 0.14	26	13.3	125.0	251.0
21021	28 x 2 x 0.14	26	13.3	128.0	258.0
21022	30 x 2 x 0.14	26	13.7	140.0	270.0
21023	32 x 2 x 0.14	26	13.9	145.0	284.0
21024	34 x 2 x 0.14	26	14.4	150.0	300.0
21025	36 x 2 x 0.14	26	14.4	156.0	316.0
21026	38 x 2 x 0.14	26	14.9	162.0	350.0
21027	40 x 2 x 0.14	26	14.9	177.0	370.0
21028	44 x 2 x 0.14	26	16.3	181.0	390.0

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Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
21029	46 x 2 x 0.14	26	16.6	195.0	430.0
21030	50 x 2 x 0.14	26	17.0	202.0	440.0
21031	52 x 2 x 0.14	26	16.8	206.0	460.0
21032	55 x 2 x 0.14	26	17.5	210.0	480.0
21033	1 x 2 x 0.25	24	4.4	15.0	45.0
21034	2 x 2 x 0.25	24	6.4	28.0	53.0
21035	3 x 2 x 0.25	24	6.8	32.0	65.0
21036	4 x 2 x 0.25	24	7.4	38.0	80.0
21037	5 x 2 x 0.25	24	8.0	55.0	98.0
21038	6 x 2 x 0.25	24	8.9	65.0	114.0
21039	7 x 2 x 0.25	24	8.9	70.0	121.0
21040	8 x 2 x 0.25	24	10.2	75.0	129.0
21041	10 x 2 x 0.25	24	11.3	110.0	157.0
21042	12 x 2 x 0.25	24	11.6	117.0	189.0
21043	14 x 2 x 0.25	24	12.2	122.0	213.0
21044	15 x 2 x 0.25	24	13.2	134.0	225.0
21045	16 x 2 x 0.25	24	13.2	143.0	237.0
21046	18 x 2 x 0.25	24	13.9	148.0	248.0
21047	20 x 2 x 0.25	24	14.5	162.0	275.0
21048	22 x 2 x 0.25	24	16.3	172.0	303.0
21049	24 x 2 x 0.25	24	16.3	223.0	330.0
21050	25 x 2 x 0.25	24	16.6	233.0	343.0
21051	26 x 2 x 0.25	24	16.6	238.0	345.0
21052	27 x 2 x 0.25	24	16.6	244.0	350.0
21053	28 x 2 x 0.25	24	16.6	249.0	360.0
21054	30 x 2 x 0.25	24	17.2	254.0	375.0
21055	32 x 2 x 0.25	24	17.7	290.0	400.0
21056	34 x 2 x 0.25	24	18.5	312.0	410.0
21057	36 x 2 x 0.25	24	18.5	322.0	420.0
21058	38 x 2 x 0.25	24	19.2	339.0	450.0
21059	40 x 2 x 0.25	24	19.2	349.0	485.0
21060	44 x 2 x 0.25	24	20.9	359.0	500.0
21061	46 x 2 x 0.25	24	21.2	398.0	540.0
21062	50 x 2 x 0.25	24	22.0	403.0	550.0
21063	52 x 2 x 0.25	24	21.6	435.0	580.0
21064	55 x 2 x 0.25	24	22.4	464.0	630.0
19970	1 x 2 x 0.34	22	4.6	16.0	58.0
19971	2 x 2 x 0.34	22	6.8	37.0	65.0
19972	3 x 2 x 0.34	22	7.1	45.0	78.0
19973	4 x 2 x 0.34	22	7.8	54.0	90.0
19974	5 x 2 x 0.34	22	8.7	64.0	110.0
19975	6 x 2 x 0.34	22	9.4	73.0	130.0
19976	7 x 2 x 0.34	22	9.4	80.0	145.0
19977	8 x 2 x 0.34	22	11.0	88.0	150.0
19978	9 x 2 x 0.34	22	11.9	99.0	170.0
19979	10 x 2 x 0.34	22	11.9	107.0	190.0
19980	12 x 2 x 0.34	22	12.3	122.0	220.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
19981	14 x 2 x 0.34	22	13.3	138.0	245.0
19982	16 x 2 x 0.34	22	14.0	154.0	250.0
19983	18 x 2 x 0.34	22	14.7	198.0	275.0
19984	21 x 2 x 0.34	22	16.3	214.4	300.0
19985	25 x 2 x 0.34	22	17.9	238.0	400.0
19986	27 x 2 x 0.34	22	17.9	262.0	410.0
19987	30 x 2 x 0.34	22	18.7	287.0	440.0
19988	34 x 2 x 0.34	22	19.9	310.0	510.0
19989	37 x 2 x 0.34	22	19.9	369.0	550.0
19990	40 x 2 x 0.34	22	20.6	393.0	590.0
19991	44 x 2 x 0.34	22	22.4	424.0	600.0
19992	50 x 2 x 0.34	22	23.4	456.0	650.0
19993	52 x 2 x 0.34	22	23.1	488.0	680.0
19994	56 x 2 x 0.34	22	24.2	518.0	750.0
19995	61 x 2 x 0.34	22	24.9	557.0	840.0
17047	1 x 2 x 0.5	20	5.2	24.0	60.0
17001	2 x 2 x 0.5	20	7.8	54.0	89.0
17002	3 x 2 x 0.5	20	8.2	70.0	104.0
17003	4 x 2 x 0.5	20	9.2	91.0	126.0
17004	5 x 2 x 0.5	20	10.0	105.0	148.0
17005	6 x 2 x 0.5	20	11.1	120.0	171.0
17006	8 x 2 x 0.5	20	13.2	144.0	290.0
17007	10 x 2 x 0.5	20	14.4	178.0	320.0
17008	12 x 2 x 0.5	20	14.8	199.0	361.0
17009	16 x 2 x 0.5	20	16.6	254.0	421.0
17010	20 x 2 x 0.5	20	18.8	302.0	580.0
17011	25 x 2 x 0.5	20	21.4	344.0	740.0
17048	1 x 2 x 0.75	19	5.7	28.0	71.0
17012	2 x 2 x 0.75	19	8.9	58.0	105.0
17013	3 x 2 x 0.75	19	9.4	84.0	128.0
17014	4 x 2 x 0.75	19	10.2	108.0	156.0
17015	5 x 2 x 0.75	19	11.4	126.0	189.0
17016	6 x 2 x 0.75	19	12.6	146.0	216.0
17017	8 x 2 x 0.75	19	14.8	180.0	309.0
17018	10 x 2 x 0.75	19	16.3	220.0	355.0
17019	12 x 2 x 0.75	19	16.8	261.0	405.0
17020	16 x 2 x 0.75	19	19.0	328.0	565.0
17021	20 x 2 x 0.75	19	21.2	392.0	700.0
17022	25 x 2 x 0.75	19	24.6	470.0	950.0
17049	1 x 2 x 1	18	6.0	46.0	75.0
17050	2 x 2 x 1	18	9.4	82.0	116.0
17051	3 x 2 x 1	18	9.9	103.0	140.0
17052	4 x 2 x 1	18	11.0	132.0	191.0
17053	1 x 2 x 1.5	16	7.2	63.0	84.0
17054	2 x 2 x 1.5	16	11.3	111.0	122.0
17055	3 x 2 x 1.5	16	11.9	136.0	194.0
17056	4 x 2 x 1.5	16	13.5	172.0	240.0

17.12.2020 / We reserve the right to make technical changes; the imprint in the image is purely exemplary