

PAAR-LiYCY

Flexible screened cables, color coded according to DIN 47100, EMC*



Cable structure

- Stranded bare copper conductor according to DIN VDE 0295, IEC 60228 cl. 5
- Core insulation of special PVC according to DIN VDE 0207 part 4
- Cores color coded according to DIN 47100
- Cores twisted to pairs with optimal lay-length
- Pairs stranded in layers with optimal lay-length
- Twisted pairs wrapped with plastic foil
- Tinned copper braided screening, approx 85% coverage
- Special grey PVC outer sheath, according to DIN VDE 0207 part 5
- Extensively oil resistant
- PVC self-extinguishing and flame retardant, according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1

Technical data

- Twisted pair data PVC cables according to DIN VDE 0812, 0814
- **Temperature range** flexing from -5 °C to +70 °C
fixed from -30 °C to +80 °C
- **Operating voltage** 0,14 mm² = 350 V
≥ 0,25 mm² = 500 V
- **Test voltage a.c.** core/core 1200 V
core/screen 800 V
- **Insulation resistance** min. 200 MΩ × km
core cross-section (mm²) 0,14 0,25 0,34 0,50 0,75
- **Conductor resistance (Ω/km)** 134 75 53 39 26
- **Capacitance (approx. value) at 800 Hz (pF/m)**
core/core 150 150 150
core/screen 270 270 270
- **Load (A)** 4,5 6 9
- **Inductance** approx. 0,65 mH/km
- **Impedance** approx. 78 Ω
- **Minimum bending radius** approx. 10× cable diameter
- **Radiation resistance** up to 80×10⁶ cJ/kg (up to 80 Mrad)

Application

These data control twisted cables are used for flexible use with free movement, but without tensile stress or forced movements in dry, wet and moist areas but are not suitable for open air application. These cables are ideal for areas with signal interferences. The high density of the braiding reduces substantially the effects of electrical disturbances from parallel running wiring etc. Twisted pairs conform favourable cross-talk attenuation values.

Note

*EMC = Electromagnetic compatibility – recommended type

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC

Conforms to RoHS.

Different sheath colors also available.

Part No.	No. of pairs × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0221001	1 × 2 × 0,14	4,0	15,6	34
0221002	2 × 2 × 0,14	5,2	18,5	40
0221003	3 × 2 × 0,14	5,6	23,0	49
0221004	4 × 2 × 0,14	5,8	26,6	55
0221005	5 × 2 × 0,14	6,5	30,7	66
0221006	6 × 2 × 0,14	7,3	48,5	86
0221007	7 × 2 × 0,14	7,5	51,1	91
0221008	8 × 2 × 0,14	7,8	53,7	97
0221009	10 × 2 × 0,14	8,5	59,0	109
0221010	12 × 2 × 0,14	9,3	66,0	141
0221021	14 × 2 × 0,14	10,0	74,0	148
0221022	15 × 2 × 0,14	10,3	76,0	152
0221013	16 × 2 × 0,14	10,7	79,0	155
0221014	18 × 2 × 0,14	11,0	83,0	171
0221015	20 × 2 × 0,14	11,2	97,0	183
0221016	22 × 2 × 0,14	11,6	103,0	205
0221017	24 × 2 × 0,14	12,0	111,0	228
0221018	25 × 2 × 0,14	12,4	113,0	239
0221019	26 × 2 × 0,14	12,8	122,0	245
0221020	27 × 2 × 0,14	13,0	125,0	251
0221021	28 × 2 × 0,14	13,2	128,0	258
0221022	30 × 2 × 0,14	13,6	140,0	270

Part No.	No. of pairs × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0221023	32 × 2 × 0,14	14,2	145,0	284
0221024	34 × 2 × 0,14	14,6	150,0	300
0221025	36 × 2 × 0,14	14,8	156,0	316
0221026	38 × 2 × 0,14	15,0	162,0	350
0221027	40 × 2 × 0,14	15,4	177,0	370
0221028	44 × 2 × 0,14	16,0	181,0	390
0221029	46 × 2 × 0,14	16,4	195,0	430
0221030	50 × 2 × 0,14	17,8	202,0	440
0221031	52 × 2 × 0,14	18,0	206,0	460
0221032	55 × 2 × 0,14	18,8	210,0	480
0221033	1 × 2 × 0,25	4,8	15,0	45
0221034	2 × 2 × 0,25	6,3	28,0	53
0221035	3 × 2 × 0,25	6,7	32,0	65
0221036	4 × 2 × 0,25	6,8	38,0	80
0221037	5 × 2 × 0,25	7,8	55,0	98
0221038	6 × 2 × 0,25	8,8	65,0	114
0221039	7 × 2 × 0,25	8,9	70,0	121
0221040	8 × 2 × 0,25	9,6	75,0	129
0221041	10 × 2 × 0,25	10,6	110,0	157
0221042	12 × 2 × 0,25	11,6	117,0	189
0221043	14 × 2 × 0,25	12,0	122,0	213

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0221044	15 × 2 × 0,25	12,5	134,0	225	0219983	18 × 2 × 0,34	15,2	197,9	275
0221045	16 × 2 × 0,25	13,0	143,0	237	0219984	21 × 2 × 0,34	16,2	214,4	300
0221046	18 × 2 × 0,25	13,2	148,0	248	0219985	25 × 2 × 0,34	17,9	238,5	400
0221047	20 × 2 × 0,25	13,7	162,0	275	0219986	27 × 2 × 0,34	18,2	262,5	410
0221048	22 × 2 × 0,25	14,4	172,0	303	0219987	30 × 2 × 0,34	19,0	286,6	440
0221049	24 × 2 × 0,25	15,0	223,0	330	0219988	34 × 2 × 0,34	20,0	310,1	510
0221050	25 × 2 × 0,25	15,4	233,0	343	0219989	37 × 2 × 0,34	20,3	368,7	550
0221051	26 × 2 × 0,25	15,8	238,0	345	0219990	40 × 2 × 0,34	21,0	392,6	590
0221052	27 × 2 × 0,25	16,2	244,0	350	0219991	44 × 2 × 0,34	22,2	424,3	600
0221053	28 × 2 × 0,25	16,3	249,0	360	0219992	50 × 2 × 0,34	23,5	455,9	650
0221054	30 × 2 × 0,25	16,7	254,0	375	0219993	52 × 2 × 0,34	24,6	487,6	680
0221055	32 × 2 × 0,25	16,9	290,0	400	0219994	56 × 2 × 0,34	25,1	518,5	750
0221056	34 × 2 × 0,25	17,5	312,0	410	0219995	61 × 2 × 0,34	26,3	557,2	840
0221057	36 × 2 × 0,25	17,7	322,0	420					
0221058	38 × 2 × 0,25	18,0	339,0	450	0217001	2 × 2 × 0,5	7,8	54,0	89
0221059	40 × 2 × 0,25	18,8	349,0	485	0217002	3 × 2 × 0,5	8,5	70,0	104
0221060	44 × 2 × 0,25	19,0	359,0	500	0217003	4 × 2 × 0,5	9,1	91,0	126
0221061	46 × 2 × 0,25	19,2	398,0	540	0217004	5 × 2 × 0,5	10,4	105,0	148
0221062	50 × 2 × 0,25	19,9	403,0	550	0217005	6 × 2 × 0,5	11,8	120,0	171
0221063	52 × 2 × 0,25	20,0	435,0	580	0217006	8 × 2 × 0,5	13,1	144,0	290
0221064	55 × 2 × 0,25	21,0	464,0	630	0217007	10 × 2 × 0,5	14,3	178,0	320
					0217008	12 × 2 × 0,5	15,0	199,0	261
0219970	1 × 2 × 0,34	5,4	16,0	58	0217009	16 × 2 × 0,5	17,5	254,0	421
0219971	2 × 2 × 0,34	6,3	36,9	65	0217010	20 × 2 × 0,5	19,5	302,0	580
0219972	3 × 2 × 0,34	7,5	44,9	78	0217011	25 × 2 × 0,5	22,5	344,0	740
0219973	4 × 2 × 0,34	8,0	54,2	90					
0219974	5 × 2 × 0,34	8,9	63,5	110	0217012	2 × 2 × 0,75	8,2	58,0	105
0219975	6 × 2 × 0,34	10,5	73,1	130	0217013	3 × 2 × 0,75	9,0	84,0	128
0219976	7 × 2 × 0,34	10,7	79,5	145	0217014	4 × 2 × 0,75	9,2	108,0	156
0219977	8 × 2 × 0,34	10,9	88,4	150	0217015	5 × 2 × 0,75	11,0	126,0	189
0219978	9 × 2 × 0,34	11,4	99,3	170	0217016	6 × 2 × 0,75	12,4	146,0	216
0211997	10 × 2 × 0,34	12,0	106,9	190	0217017	8 × 2 × 0,75	14,1	180,0	309
0219980	12 × 2 × 0,34	13,2	122,1	220	0217018	10 × 2 × 0,75	15,3	220,0	355
0219981	14 × 2 × 0,34	13,6	138,2	245	0217019	12 × 2 × 0,75	16,4	261,0	405
0219982	16 × 2 × 0,34	15,1	154,2	250	0217020	16 × 2 × 0,75	19,2	328,0	565