PAAR-TRONIC flexible, colour coded to DIN 47100, meter marking

Technical data

- Special-PVC data cable for electronic control 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** 1200 V
- **Breakdown voltage** min. 2400 V
- **Insulation resistance** min. 20 MOhm x km
- **Capacitance** (approx.-value) at 800 Hz core/core 0,14 mm² = 120 pF/m core/core 0,25 mm² = 150 pF/m
- **Inductance** approx. 0,65 mH/km
- **Impedance** approx. 78 Ohm
- **K_1-coupling** approx. 300 pF/100 m
- **Minimum bending radius** flexing 7,5x cable Ø fixed installation 4x cable Ø
- **Radiation resistance** up to 80x10⁶ cJ/kg (up to 80 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
- Core insulation of special PVC compound type TI2 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
- Outer sheath of special PVC compound type TM2 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 table Technical Informations
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- screened analogue type: **PAAR-TRONIC-CY**

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 is the perfect cable for use in areas where a small diameter is essential to complete wiring. E. g. as a control and signal cable in measuring instruments, computers, signal transfer etc. This cable is suitable only for low load application.

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

Part no.	No.pairs x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
19001	1 x 2 x 0,14	3,6	2,7	20,0	26
19002	2 x 2 x 0,14	4,6	5,4	25,0	26
19003	3 x 2 x 0,14	5,1	8,0	31,0	26
19004	4 x 2 x 0,14	5,5	10,7	38,0	26
19005	5 x 2 x 0,14	6,3	13,4	45,0	26
19006	6 x 2 x 0,14	6,7	16,1	50,0	26
19007	7 x 2 x 0,14	6,7	18,8	57,0	26
19008	8 x 2 x 0,14	7,6	21,5	64,0	26
19009	10 x 2 x 0,14	8,5	26,9	78,0	26
19010	11 x 2 x 0,14	9,0	29,5	86,0	26
19011	12 x 2 x 0,14	9,1	32,3	94,0	26
19012	14 x 2 x 0,14	9,8	37,6	105,0	26
19013	15 x 2 x 0,14	10,1	40,3	108,0	26
19014	16 x 2 x 0,14	10,2	43,0	110,0	26
19015	18 x 2 x 0,14	10,6	48,4	119,0	26
19016	20 x 2 x 0,14	10,8	54,0	130,0	26
19017	22 x 2 x 0,14	11,7	59,0	150,0	26

Part no.	No.pairs x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
19018	24 x 2 x 0,14	12,2	65,0	170,0	26
19019	25 x 2 x 0,14	12,3	67,0	180,0	26
19020	26 x 2 x 0,14	12,4	70,0	184,0	26
19021	27 x 2 x 0,14	12,5	73,0	188,0	26
19022	28 x 2 x 0,14	13,5	75,0	192,0	26
19023	30 x 2 x 0,14	13,6	81,0	200,0	26
19024	32 x 2 x 0,14	14,0	86,0	224,0	26
19025	34 x 2 x 0,14	14,1	91,0	247,0	26
19026	36 x 2 x 0,14	14,9	97,0	260,0	26
19027	38 x 2 x 0,14	15,6	102,0	272,0	26
19028	40 x 2 x 0,14	15,9	108,0	294,0	26
19029	44 x 2 x 0,14	16,2	118,0	334,0	26
19030	45 x 2 x 0,14	16,4	121,0	342,0	26
19031	50 x 2 x 0,14	17,4	134,0	387,0	26
19032	52 x 2 x 0,14	17,4	140,0	403,0	26
19033	55 x 2 x 0,14	18,0	148,0	427,0	26

Continuation ▸

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Part no.	No.pairs x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
19034	1 x 2 x 0,25	4,0	5,0	32,0	24
19035	2 x 2 x 0,25	5,4	10,0	37,0	24
19036	3 x 2 x 0,25	5,9	15,0	47,0	24
19037	4 x 2 x 0,25	6,8	20,0	58,0	24
19038	5 x 2 x 0,25	7,7	25,0	70,0	24
19039	6 x 2 x 0,25	8,4	30,0	80,0	24
19040	7 x 2 x 0,25	8,4	35,0	89,0	24
19041	8 x 2 x 0,25	8,7	40,0	99,0	24
19042	10 x 2 x 0,25	10,3	50,0	114,0	24
19043	11 x 2 x 0,25	10,4	55,0	126,0	24
19044	12 x 2 x 0,25	10,5	60,0	137,0	24
19045	14 x 2 x 0,25	11,4	70,0	161,0	24
19046	15 x 2 x 0,25	11,7	75,0	174,0	24
19047	16 x 2 x 0,25	12,0	80,0	187,0	24
19048	18 x 2 x 0,25	12,6	90,0	212,0	24
19049	20 x 2 x 0,25	13,4	100,0	234,0	24
19050	22 x 2 x 0,25	14,2	110,0	250,0	24
19051	24 x 2 x 0,25	14,9	120,0	280,0	24
19052	25 x 2 x 0,25	15,0	125,0	300,0	24
19053	26 x 2 x 0,25	15,1	130,0	320,0	24
19054	27 x 2 x 0,25	15,2	135,0	330,0	24
19055	28 x 2 x 0,25	16,0	140,0	345,0	24
19056	30 x 2 x 0,25	16,2	150,0	370,0	24
19057	32 x 2 x 0,25	17,1	160,0	410,0	24
19058	34 x 2 x 0,25	17,5	170,0	425,0	24
19059	36 x 2 x 0,25	17,8	180,0	440,0	24
19060	38 x 2 x 0,25	18,3	190,0	480,0	24
19061	40 x 2 x 0,25	19,0	200,0	530,0	24
19062	44 x 2 x 0,25	19,7	220,0	580,0	24
19063	45 x 2 x 0,25	20,0	225,0	600,0	24
19064	50 x 2 x 0,25	21,0	250,0	650,0	24
19065	52 x 2 x 0,25	21,0	260,0	670,0	24
19066	55 x 2 x 0,25	21,5	275,0	790,0	24
19067	1 x 2 x 0,34	4,6	6,5	36,0	22
19068	2 x 2 x 0,34	6,3	13,1	42,0	22
19069	3 x 2 x 0,34	6,7	19,6	50,0	22
19070	4 x 2 x 0,34	7,6	26,1	61,0	22
19071	1 x 2 x 0,5	4,9	9,6	42,0	20
19072	2 x 2 x 0,5	7,2	19,2	51,0	20
19073	3 x 2 x 0,5	7,8	28,8	62,0	20
19074	4 x 2 x 0,5	8,6	38,4	73,0	20
19075	1 x 2 x 0,75	5,8	14,4	47,0	19
19076	2 x 2 x 0,75	8,7	28,8	59,0	19
19077	3 x 2 x 0,75	8,9	43,2	74,0	19
19078	4 x 2 x 0,75	10,2	57,6	93,0	19

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