

# PAAR-TRONIC flexible, unscreened, colour coded to DIN 47100



## Technical data

- Special PVC data cables, adapted to DIN VDE 0812, 0814
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -30°C to +80°C
- **Nominal voltage** 250 V  
(not for purposes of high current and power installation)
- **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 mm<sup>2</sup> = 120 pF/m  
core/core 0,25 mm<sup>2</sup> = 150 pF/m
- **Load** 0,14 mm<sup>2</sup> = 1,5 A  
0,25 mm<sup>2</sup> = 2,5 A
- **Inductance** approx. 0,65 mH/km
- **Impedance** approx. 78 Ohm
- **K<sub>1</sub>-coupling** approx. 300 pF/100 m
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> Cj/kg (up to 80 Mrad)

## Cable construction

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation YI2, to DIN VDE 0207 part 4
- Colour coded to DIN 47100
- Cores stranded in pairs with optimal lay-length
- Pairs stranded in layers with optimal lay-length
- Core wrapping with foil
- Special PVC outer sheath YM2, to DIN VDE 0207 part 5
- Sheath colour grey (RAL 7032)

## Properties

- Extensively oil resistant.  
Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## 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 73/23/EEC and 93/68/EEC.

Part No.	No.pairs x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
19001	1 x 2 x 0,14	3,7	2,7	20,0	26
19002	2 x 2 x 0,14	5,1	5,4	25,0	26
19003	3 x 2 x 0,14	5,5	8,0	31,0	26
19004	4 x 2 x 0,14	5,7	10,7	38,0	26
19005	5 x 2 x 0,14	6,4	13,4	45,0	26
19006	6 x 2 x 0,14	7,2	16,1	50,0	26
19007	7 x 2 x 0,14	7,2	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	8,2	26,9	78,0	26
19010	11 x 2 x 0,14	8,8	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	9,6	37,6	105,0	26
19013	15 x 2 x 0,14	9,8	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	10,5	48,4	119,0	26
19016	20 x 2 x 0,14	10,7	54,0	130,0	26
19017	22 x 2 x 0,14	10,9	59,0	150,0	26

Part No.	No.pairs x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
19018	24 x 2 x 0,14	12,0	65,0	170,0	26
19019	25 x 2 x 0,14	12,4	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	12,6	73,0	188,0	26
19022	28 x 2 x 0,14	12,8	75,0	192,0	26
19023	30 x 2 x 0,14	13,4	81,0	200,0	26
19024	32 x 2 x 0,14	13,6	86,0	224,0	26
19025	34 x 2 x 0,14	13,9	91,0	247,0	26
19026	36 x 2 x 0,14	14,2	97,0	260,0	26
19027	38 x 2 x 0,14	14,4	102,0	272,0	26
19028	40 x 2 x 0,14	14,8	108,0	294,0	26
19029	44 x 2 x 0,14	15,5	118,0	334,0	26
19030	45 x 2 x 0,14	15,8	121,0	342,0	26
19031	50 x 2 x 0,14	16,6	134,0	387,0	26
19032	52 x 2 x 0,14	17,3	140,0	403,0	26
19033	55 x 2 x 0,14	17,8	148,0	427,0	26

Dimensions and specifications may be changed without prior notice.

Continuation ►

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Part No.	No.pairs x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. 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	5,8	15,0	47,0	24
19037	4 x 2 x 0,25	6,4	20,0	58,0	24
19038	5 x 2 x 0,25	7,2	25,0	70,0	24
19039	6 x 2 x 0,25	8,0	30,0	80,0	24
19040	7 x 2 x 0,25	8,0	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	9,7	50,0	114,0	24
19043	11 x 2 x 0,25	10,2	55,0	126,0	24
19044	12 x 2 x 0,25	10,6	60,0	137,0	24
19045	14 x 2 x 0,25	11,2	70,0	161,0	24
19046	15 x 2 x 0,25	11,8	75,0	174,0	24
19047	16 x 2 x 0,25	12,2	80,0	187,0	24
19048	18 x 2 x 0,25	12,5	90,0	212,0	24
19049	20 x 2 x 0,25	13,3	100,0	234,0	24
19050	22 x 2 x 0,25	13,7	110,0	250,0	24
19051	24 x 2 x 0,25	14,4	120,0	280,0	24
19052	25 x 2 x 0,25	15,3	125,0	300,0	24
19053	26 x 2 x 0,25	15,3	130,0	320,0	24
19054	27 x 2 x 0,25	15,4	135,0	330,0	24
19055	28 x 2 x 0,25	15,5	140,0	345,0	24
19056	30 x 2 x 0,25	16,0	150,0	370,0	24

Part No.	No.pairs x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
19057	32 x 2 x 0,25	16,3	160,0	410,0	24
19058	34 x 2 x 0,25	16,9	170,0	425,0	24
19059	36 x 2 x 0,25	17,1	180,0	440,0	24
19060	38 x 2 x 0,25	17,2	190,0	480,0	24
19061	40 x 2 x 0,25	17,2	200,0	530,0	24
19062	44 x 2 x 0,25	17,4	220,0	580,0	24
19063	45 x 2 x 0,25	17,5	225,0	600,0	24
19064	50 x 2 x 0,25	18,0	250,0	650,0	24
19065	52 x 2 x 0,25	18,1	260,0	670,0	24
19066	55 x 2 x 0,25	18,3	275,0	790,0	24
19067	1 x 2 x 0,34	4,6	6,5	36,0	24
19068	2 x 2 x 0,34	5,5	13,1	42,0	24
19069	3 x 2 x 0,34	6,7	19,6	50,0	24
19070	4 x 2 x 0,34	7,4	26,1	61,0	24
19071	1 x 2 x 0,5	5,6	9,6	42,0	24
19072	2 x 2 x 0,5	7,1	19,2	51,0	24
19073	3 x 2 x 0,5	7,8	28,8	62,0	24
19074	4 x 2 x 0,5	8,5	38,4	73,0	24
19075	1 x 2 x 0,75	6,7	14,4	47,0	24
19076	2 x 2 x 0,75	7,5	28,8	59,0	24
19077	3 x 2 x 0,75	8,4	43,2	74,0	24
19078	4 x 2 x 0,75	8,7	57,6	93,0	24

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