

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 MΩm x km
- **Capacitance** (approx.-value) at 800 Hz
core/core 0,14 mm² = 120 pF/m
core/core 0,25 mm² = 150 pF/m
- **Load** 0,14 mm² = 1,5 A
0,25 mm² = 2,5 A
- **Inductance** approx. 0,65 mH/km
- **Impedance** approx. 78 Ωm
- **K₁-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 construction

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation Y12, 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 mm².

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 ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No.pairs x cross-sec. mm ²	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	19018	24 x 2 x 0,14	12,0	65,0	170,0	26
19002	2 x 2 x 0,14	5,1	5,4	25,0	26	19019	25 x 2 x 0,14	12,4	67,0	180,0	26
19003	3 x 2 x 0,14	5,5	8,0	31,0	26	19020	26 x 2 x 0,14	12,4	70,0	184,0	26
19004	4 x 2 x 0,14	5,7	10,7	38,0	26	19021	27 x 2 x 0,14	12,6	73,0	188,0	26
19005	5 x 2 x 0,14	6,4	13,4	45,0	26	19022	28 x 2 x 0,14	12,8	75,0	192,0	26
19006	6 x 2 x 0,14	7,2	16,1	50,0	26	19023	30 x 2 x 0,14	13,4	81,0	200,0	26
19007	7 x 2 x 0,14	7,2	18,8	57,0	26	19024	32 x 2 x 0,14	13,6	86,0	224,0	26
19008	8 x 2 x 0,14	7,6	21,5	64,0	26	19025	34 x 2 x 0,14	13,9	91,0	247,0	26
19009	10 x 2 x 0,14	8,2	26,9	78,0	26	19026	36 x 2 x 0,14	14,2	97,0	260,0	26
19010	11 x 2 x 0,14	8,8	29,5	86,0	26	19027	38 x 2 x 0,14	14,4	102,0	272,0	26
19011	12 x 2 x 0,14	9,1	32,3	94,0	26	19028	40 x 2 x 0,14	14,8	108,0	294,0	26
19012	14 x 2 x 0,14	9,6	37,6	105,0	26	19029	44 x 2 x 0,14	15,5	118,0	334,0	26
19013	15 x 2 x 0,14	9,8	40,3	108,0	26	19030	45 x 2 x 0,14	15,8	121,0	342,0	26
19014	16 x 2 x 0,14	10,2	43,0	110,0	26	19031	50 x 2 x 0,14	16,6	134,0	387,0	26
19015	18 x 2 x 0,14	10,5	48,4	119,0	26	19032	52 x 2 x 0,14	17,3	140,0	403,0	26
19016	20 x 2 x 0,14	10,7	54,0	130,0	26	19033	55 x 2 x 0,14	17,8	148,0	427,0	26
19017	22 x 2 x 0,14	10,9	59,0	150,0	26						

Dimensions and specifications may be changed without prior notice.

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