

PAAR-LiYCY-CY

Flexible data cables, screened pairs, EMC*



Cable structure

- Stranded bare copper conductor according to DIN VDE 0295 cl. 5
- Core insulation of special PVC
- Color coded core according to DIN 47100
- Cores twisted to pairs with optimal lay-length
- Pairs stranded in layers with optimal lay-length
- Pairs screened individually, tinned copper screening, approx. 85% coverage
- Special PVC coating over each pair
- Twisted pairs wrapped with special polyester foil
- Overall tinned copper braid-screening, approx. 85% coverage
- Special PVC sheath, color grey, 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

- Special PVC data cables according to DIN VDE 0812 and 0814
- **Temperature range** flexing from -5 °C to +70 °C
fixed from -20 °C to +80 °C
- **Conductor resistance** 0,14 mm² resp. 0,25 mm²
max 138 resp. 77,8 Ω/km
- **Operating voltage** max. 350 V
- **Test voltage a.c.** 1200 V resp. 2000 V
- **Capacitance at 800 Hz** core/core 120 to 150 pF/m
depending on core cross-section
core/screen 160 to 260 pF/m
depending on core cross-section
- **Insulation resistance** min. 200 MΩ/km
- **Attenuation at 1 kHz** 3,6 resp. 2,2 resp. 1,8 dB/km
- **Minimum bending radius** approx. 12× cable diameter
- **Radiation resistance** up to 80×10⁶ cJ/kg (up to 80 Mrad)

Application

This cable offers interference-free data transfer and is suitable for use as a signal cable in combination with computers and external units. The screening characteristics also make this cable ideal as a connecting cable in sound studio systems, measuring and control sectors as well as providing highly reliable cable for process-control and security systems.

Note

*EMC = Electromagnetic compatibility – recommended type

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

Conforms to RoHS.

Part No.	No. of pairs x core cross-sect (mm ²)	Approx. outer Ø (mm)	Copper weight (kg/km)	Approx. cable weight (kg/km)
0221065	2×2×0,14	7,3	31,0	95
0221066	3×2×0,14	7,5	34,0	105
0221067	4×2×0,14	9,3	45,0	140
0221068	5×2×0,14	10,5	58,0	160
0221069	6×2×0,14	11,0	67,0	185
0221070	7×2×0,14	12,0	78,0	230
0221071	8×2×0,14	13,5	97,0	245
0221072	9×2×0,14	14,1	101,0	280
0221073	10×2×0,14	14,0	108,0	325
0221074	12×2×0,14	15,0	134,0	380
0221075	16×2×0,14	17,0	179,0	440
0221076	20×2×0,14	17,8	225,0	520
0221077	2×2×0,25	9,5	62,0	125
0221078	3×2×0,25	10,0	78,2	140
0221079	4×2×0,25	12,0	124,1	205
0221080	5×2×0,25	12,1	137,6	230
0221081	6×2×0,25	13,0	148,1	275
0221082	7×2×0,25	16,0	159,1	295
0221083	8×2×0,25	17,0	178,7	330
0221084	10×2×0,25	17,2	213,9	420
0221085	12×2×0,25	17,5	238,3	465
0221086	16×2×0,25	22,0	291,4	590
0221087	20×2×0,25	22,6	325,0	620
0221088	24×2×0,25	27,5	367,5	690

Part No.	No. of pairs x core cross-sect (mm ²)	Approx. outer Ø (mm)	Copper weight (kg/km)	Approx. cable weight (kg/km)
0221089	32×2×0,25	29,8	588,0	785
0221090	48×2×0,25	34,5	840,5	970
0221091	2×2×0,34	10,1	73,1	139
0221092	3×2×0,34	11,0	88,1	157
0221093	4×2×0,34	12,4	137,2	213
0221094	6×2×0,34	14,5	174,8	308
0221095	8×2×0,34	16,0	247,2	385
0221096	10×2×0,34	17,6	288,7	433
0221097	12×2×0,34	18,5	321,0	495
0221098	14×2×0,34	20,7	388,4	600
0221099	16×2×0,34	22,5	425,5	637
0221100	24×2×0,34	28,0	577,1	781
0221101	2×2×0,50	10,8	83,1	143
0221102	3×2×0,50	11,4	106,4	179
0221103	4×2×0,50	13,0	158,0	241
0221104	6×2×0,50	14,9	201,4	319
0221105	8×2×0,50	16,8	311,5	441
0221106	10×2×0,50	18,4	334,5	464
0221107	12×2×0,50	20,1	394,1	529
0221108	14×2×0,50	21,6	446,0	641
0221109	16×2×0,50	23,8	501,2	694
0221110	24×2×0,50	28,4	712,4	930