

LiY-TPC-Y

colour code DIN 47100, screened pairs, EMC-preferred type



TECHNICAL DATA

PVC data cable in alignment with DIN VDE 0812

Temperature range	flexible -5°C to +70°C fixed -30°C to +70°C
Peak operating voltage	500 V (not for high power current installation purposes)
Test voltage core/core	1200 V
Breakdown voltage	2400 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 12x Outer-Ø fixed 7.5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, 0.5 - 1 mm²: finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Wire structure:
0.25 mm²: approx. 14 x 0.15 mm
0.34 mm²: 7 x 0.25 mm
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T12)
- Core identification acc. to DIN 47100 (paired stranding), colour coded
- x = without protective conductor
- Cores stranded in pairs with optimal lay lengths
- Foil wrapping of the pairs
- Screening element: pairs, braided screen of tinned copper wires, approx. coverage 85%
- Pairs stranded in layers with optimal lay lengths
- Foil wrapping
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: grey (RAL 7032)
- Length marking: in metres

PROPERTIES

- largely resistant to: oil, for details, see "Technical Information"
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- certifications and approvals: EAC

APPLICATION

The pair screened data transmission cable is used as a control and signal cable in electronics and in measurement and control technology. It provides interference-free transmission of data signals from peripheral equipment to information storage. Excellent connection cable for sound mixers, studio equipment and measurement and control technology. Reliable in process control, machining centres and safety engineering systems. These cables with copper screening are ideally suited for interference-free data and signal transmission for measurement and control technology. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
21323	2 x 2 x 0.25	24	6.2	32.0	60.0
21324	3 x 2 x 0.25	24	6.8	48.0	80.0
21325	4 x 2 x 0.25	24	7.4	64.0	112.0
21326	5 x 2 x 0.25	24	8.7	80.0	142.0
21327	6 x 2 x 0.25	24	9.1	96.0	159.0
21328	7 x 2 x 0.25	24	9.6	112.0	177.0
21329	10 x 2 x 0.25	24	11.7	160.0	250.0
21340	2 x 2 x 0.34	22	6.7	42.0	78.0
21341	3 x 2 x 0.34	22	7.5	63.0	104.0
21342	4 x 2 x 0.34	22	8.1	84.0	153.0
21343	5 x 2 x 0.34	22	9.5	105.0	189.0
21344	7 x 2 x 0.34	22	10.1	147.0	238.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
21345	10 x 2 x 0.34	22	13.4	210.0	322.0
21355	2 x 2 x 0.5	20	8.3	58.0	96.0
21356	3 x 2 x 0.5	20	9.2	87.0	136.0
21357	4 x 2 x 0.5	20	10.2	116.0	187.0
21370	2 x 2 x 0.75	19	9.2	76.0	132.0
21371	3 x 2 x 0.75	19	10.1	114.0	178.0
21372	4 x 2 x 0.75	19	11.2	152.0	243.0
21373	5 x 2 x 0.75	19	12.7	190.0	312.0
21385	2 x 2 x 1	18	9.6	86.0	142.0
21386	3 x 2 x 1	18	10.8	130.0	189.0
21387	4 x 2 x 1	18	11.9	149.0	275.0