



APPLICATION

LiYCY TP cable is a paired and screened PVC data cable with small outer diameter. This cable is applied in measuring, control, and voice signals, e.g. in low-voltage switchboard plants, scales and appliance engineering, in communication technologies, in control and measuring technologies, and in office and computing machines. To be installed in dry and humid rooms and used as a termination and connection cable in the control, measuring and signal technology.

CHARACTERISTICS

Voltage Rating

0.14mm²: 350V

Above 0.14mm²: 500V

Test Voltage

0.14mm²: 800V

Above 0.14mm²: 1200V

Temperature Rating

Fixed: -40°C to +80°C

Flexed: +5°C to +50°C

Minimum Bending Radius

Fixed: 10 x overall diameter

CONSTRUCTION

Conductor

Fine-stranded copper conductor

Insulation

PVC (Polyvinyl Chloride)

Separator

Plastic foil tape

Screen

TCWB (Tinned Copper Wire Braid)

Sheath

PVC (Polyvinyl Chloride)

Core Identification

Pair 1: White Brown

Pair 2: Green Yellow

Pair 3: Grey Pink

Pair 4: Blue Red

Pair 5: Black Violet

Pair 6: Grey/Pink Red/Blue

Pair 7: White/Green Brown/Green

Pair 8: White/Yellow Yellow/Brown

Pair 9: White/Grey Grey/Brown

Pair 10: White/Pink Pink/Brown

Outer Sheath Colour

Grey

STANDARDS

DIN VDE 0812

Flame Retardant according to: IEC/EN 60332-1-2

DIMENSIONS

NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR CONSTRUCTION		CONDUCTOR LOOP RESISTANCE ohms/km	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
		No.of strands	Strand Diameter mm			
2	0.14	18	0.1	276	5.8	34
2	0.25	14	0.16	151	6.6	46
2	0.34	19	0.16	115	7.5	64
2	0.5	16	0.21	75.6	8.2	75
2	0.75	24	0.21	50.6	8.6	106
3	0.14	18	0.1	276	6.2	43
3	0.25	14	0.16	151	7	64
3	0.34	19	0.16	115	7.9	86
3	0.5	16	0.21	75.6	8.7	98
3	0.75	24	0.21	50.6	9.5	140
4	0.14	18	0.1	276	6.8	50
4	0.25	14	0.16	151	7.6	73
4	0.34	19	0.16	115	8.5	113
4	0.5	16	0.21	75.6	9.3	123
4	0.75	24	0.21	50.6	10.8	179
5	0.14	18	0.1	276	7.7	70
5	0.25	14	0.16	151	8.4	88
6	0.14	18	0.1	276	7.9	81
6	0.25	14	0.16	151	8.6	98
6	0.5	16	0.21	75.6	10.8	162
6	0.75	24	0.21	50.6	12.5	246
8	0.14	18	0.1	276	8.6	93
8	0.25	14	0.16	151	9.4	118
8	0.5	16	0.21	75.6	11.8	190
8	0.75	24	0.21	50.6	14.6	300
10	0.14	18	0.1	276	9.5	115
10	0.25	14	0.16	151	10.7	165
12	0.14	18	0.1	276	9.9	125
12	0.5	16	0.21	75.6	14	342
12	0.75	24	0.21	50.6	17.8	433
16	0.14	18	0.1	276	11.2	148
16	0.75	24	0.21	50.6	18.7	564

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	ATTENUATION AT 800Hz db/km	MUTUAL CAPACITANCE
0.14	2.3	120
0.25	1.9	120
0.34	1.5	120
0.5	1.3	120
0.75	1.1	120