

# LIYCY-TP

Data transmission with overall copper screen



## APPLICATION

- Used as junction or connecting cables in control, measuring and signalling technology as well as in data processing and office technology for lossless transmission of data and signals.
- The tight copper screening provides optimum protection against external electrical interference.
- Suitable for use in dry and humid rooms. For fixed laying and flexible applications with undefined cable routing and without tensile stress.
- Due to high flexibility and reduced outer diameter it can be used as connection of mobile equipment.
- Good chemical resistance, largely oil resistant.

## BENEFITS

- Overall braid minimises electrical interface
- Decoupling of circuits by means of twisted-pair (TP) by mean of twisted-pair(TP) design (crosstalk effects)

## CONSTRUCTION

- Fine strands of bare copper conductor
- PVC core insulation
- Core marking acc. to DIN 47100
- Overall screen of tinned copper wires
- Stranding acc. to VDE 0295 class 5
- Cores twisted into pairs
- Tinned copper wire braiding
- PVC outer sheath grey, RAL 7001 or RAL 7032



## TECHNICAL DATA

### Conductor Material

Copper, bare

### Conductor Class

Class 5 acc. to DIN VDE 0295 or IEC 60228

### Core Insulation

PVC

### Core Identification

DIN 47100: Different colours

### Stranding

2 cores twisted into pairs; Pairs stranded in layers

### Outer Sheath

PVC

### Sheath Colour

Grey (RAL 7032)

### Rated Voltage [V]

250 / 250

### Testing Voltage [V]

Core/core 2000 V Core/screen: on 0.14 mm<sup>2</sup> 1200 V and > 0.14 mm<sup>2</sup> 1500

### Conductor Resistance

Nach DIN VDE 0295, bzw. IEC 60228

### Insulation Resistance

min. 20 MΩ x cm

### Current Carrying Capacity

DIN VDE (see technical guidelines)

### Min. Bending Radius Fixed [xd]

up to 12mm Ø: 5 x d up to 20mm Ø: 7,5 x d > 20mm Ø: 10

### Min. Bending Radius Moved [xd]

up to 12mm Ø: 10 x d up to 20mm Ø: 15 x d > 20mm Ø: 20

### Working Temp Fixed Min/Max [C]

-30 °C up to +80

### Working Temp Moved Min/Mac [C]

-15 °C up to +80

### Temp at Conductor Max.

+

### Burning Behaviour

IEC 60332-1-2: flame-retardant and self-extinguishing

### Approvals

VDE 0812, 0814 and DIN 47414



# IPT-KABEL

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
23020014	2 x 2 x 0.14	5.30	2.30	4.40
23020025	2 x 2 x 0.25	6.50	3.00	5.40
23020034	2 x 2 x 0.34	7.20	3.70	7.40
23020050	2 x 2 x 0.5	8.00	4.80	9.30
23020075	2 x 2 x 0.75	8.40	6.50	10.60
23020100	2 x 2 x 1	9.50	8.40	14.00
23020150	2 x 2 x 1.5	10.60	11.20	16.50
23030014	3 x 2 x 0.14	5.50	2.60	5.30
23030025	3 x 2 x 0.25	6.90	3.90	6.60
23030034	3 x 2 x 0.34	7.50	4.80	9.80
23030050	3 x 2 x 0.5	8.50	7.30	12.90
23030075	3 x 2 x 0.75	9.00	8.40	14.00
23030100	3 x 2 x 1	10.20	9.60	17.40
23030150	3 x 2 x 1.5	11.40	13.90	21.80
23040014	4 x 2 x 0.14	6.00	3.20	6.00
23040025	4 x 2 x 0.25	7.10	4.50	8.10
23040034	4 x 2 x 0.34	8.20	5.50	11.40
23040050	4 x 2 x 0.5	9.30	8.20	14.60
23040075	4 x 2 x 0.75	10.30	11.00	17.90
23040100	4 x 2 x 1	10.50	12.20	22.60
23040150	4 x 2 x 1.5	11.70	17.60	26.60
23050014	5 x 2 x 0.14	6.50	4.10	8.00
23050025	5 x 2 x 0.25	8.20	6.20	9.80
23050034	5 x 2 x 0.34	9.00	6.57	15.70
23050050	5 x 2 x 0.5	10.50	9.80	17.60
23050075	5 x 2 x 0.75	11.00	12.80	21.50
23050100	5 x 2 x 1	12.30	16.10	26.60
23050150	5 x 2 x 1.5	13.40	21.20	31.00
23060014	6 x 2 x 0.14	7.30	4.80	8.00
23060025	6 x 2 x 0.25	8.70	6.70	11.50
23060034	6 x 2 x 0.34	9.80	7.30	19.80
23060050	6 x 2 x 0.5	11.00	11.00	19.70
23060075	6 x 2 x 0.75	12.20	14.60	24.60
23060100	6 x 2 x 1	13.40	18.80	33.30
23060150	6 x 2 x 1.5	14.20	25.50	42.50
23070034	7 x 2 x 0.34	9.80	8.20	14.50

Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
23070050	7 x 2 x 0.5	11.80	12.00	20.00
23080014	8 x 2 x 0.14	7.90	5.70	9.60
23080025	8 x 2 x 0.25	9.60	8.20	12.80
23080034	8 x 2 x 0.34	11.30	8.80	14.60
23080050	8 x 2 x 0.5	12.40	14.50	25.90
23080075	8 x 2 x 0.75	14.30	18.00	30.50
23080100	8 x 2 x 1	15.20	24.00	40.20
23080150	8 x 2 x 1.5	16.50	32.20	64.20
23100014	10 x 2 x 0.14	8.60	6.10	13.00
23100025	10 x 2 x 0.25	10.70	11.00	15.80
23100034	10 x 2 x 0.34	12.00	11.50	18.60
23100050	10 x 2 x 0.5	13.50	16.50	28.40
23100075	10 x 2 x 0.75	15.10	22.00	39.20
23100100	10 x 2 x 1	16.00	28.20	50.40
23100150	10 x 2 x 1.5	17.70	38.00	86.40
23120014	12 x 2 x 0.14	9.20	7.00	16.00
23120025	12 x 2 x 0.25	11.50	12.50	19.00
23120034	12 x 2 x 0.34	12.90	12.80	27.20
23120050	12 x 2 x 0.5	14.60	19.80	35.40
23120075	12 x 2 x 0.75	16.20	26.50	45.60
23120100	12 x 2 x 1	17.80	32.40	59.20
23120150	12 x 2 x 1.5	19.30	44.20	91.70
23160014	16 x 2 x 0.14	10.60	8.50	22.00
23160025	16 x 2 x 0.25	13.00	14.80	23.80
23160034	16 x 2 x 0.34	14.10	16.40	27.00
23160050	16 x 2 x 0.5	16.60	24.50	45.90
23160075	16 x 2 x 0.75	18.10	33.80	50.40
23160100	16 x 2 x 1	21.20	41.20	69.50
23160150	16 x 2 x 1.5	22.40	57.20	114.70
23180014	18 x 2 x 0.14	10.90	9.20	17.40
23180025	18 x 2 x 0.25	14.30	16.90	25.50
23180034	18 x 2 x 0.34	15.00	19.26	30.00
23180050	18 x 2 x 0.5	17.10	27.60	48.30
23180075	18 x 2 x 0.75	20.50	39.00	60.10
23200014	20 x 2 x 0.14	11.20	10.00	18.50
23200025	20 x 2 x 0.25	14.40	19.30	26.20



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Part No.	No. of cores x cross section	Outer Ø ca. mm	Copper weight kg/100m	Weight kg/100m
23200034	20 x 2 x 0.34	15.20	19.50	31.70
23200050	20 x 2 x 0.5	18.00	31.20	52.50
23200075	20 x 2 x 0.75	21.60	42.50	67.10
23200100	20 x 2 x 1	24.80	50.50	85.00
23200150	20 x 2 x 1.5	25.30	70.50	136.50
23240025	24 x 2 x 0.25	15.60	22.90	30.20
23240034	24 x 2 x 0.34	16.90	26.90	40.00
23240050	24 x 2 x 0.5	19.80	38.90	57.20
23240075	24 x 2 x 0.75	24.40	49.00	79.30
23250014	25 x 2 x 0.14	12.50	12.00	22.00
23250025	25 x 2 x 0.25	16.50	23.20	32.60
23250034	25 x 2 x 0.34	17.40	27.83	41.40
23250050	25 x 2 x 0.5	20.90	36.00	62.20
23250075	25 x 2 x 0.75	24.40	53.00	80.50
23250100	25 x 2 x 1	27.20	61.00	102.00
23250150	25 x 2 x 1.5	28.80	86.20	165.60
23320014	32 x 2 x 0.14	14.20	15.20	39.00
23320025	32 x 2 x 0.25	18.10	27.00	42.30
23320034	32 x 2 x 0.34	21.80	33.45	58.90
23320050	32 x 2 x 0.5	24.60	47.70	78.60
23320075	32 x 2 x 0.75	27.70	71.10	107.90
23400014	40 x 2 x 0.14	16.00	17.90	32.20
23400025	40 x 2 x 0.25	19.80	32.40	51.30
23400034	40 x 2 x 0.34	24.10	42.63	74.60
23400050	40 x 2 x 0.5	26.50	56.90	93.30
23400075	40 x 2 x 0.75	29.60	84.40	126.80
23500014	50 x 2 x 0.14	18.00	23.80	40.70
23500025	50 x 2 x 0.25	22.30	39.40	64.40
23500034	50 x 2 x 0.34	27.40	51.50	92.20
23500050	50 x 2 x 0.5	30.50	69.10	117.60
23500075	50 x 2 x 0.75	33.70	102.80	156.10