

Application

Data transmission cable, control and connecting cable predominantly for transmission of analog and digital signals in process controlled facilities in measurement and control technology. For fixed laying and flexible applications with undefined cable routing and without tensile stress. Suitable for use in dry and humid rooms. Outdoor use only with UV-protection, no laying underground.

- Large resistant to acids, bases and usual oils
- Free from lacquer damaging substances and silicone
- Conform to RoHS
- Conform to 73/23/EWG-Guideline CE

Construction

Conductor	: Bare copper , fine wire according to VDE 0295 Class 5 / IEC 60228 Class 5 Exception : 0.34 mm , stranded (7x0.25mm)
Insulation	: PVC, according to DIN 47100 different colors
Outer sheath	: PVC
Sheath color	: Grey, RAL 7001

Electrical & Technical Data

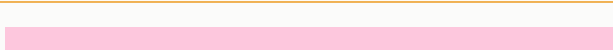
Standard	: according to DIN VDE 0245, 0250 and 0281
Working voltage U_o/U	: 250V; peak voltage on 0.14mm ² : 350V; >0.14mm ² 500V
Test voltage	: On 0.14mm ² 1200V; >0.14mm ² 1500kV
Insulation resistance	: min. 20 MΩ x km
Min. Bending radius (Moved)	: Up to 12 mm Ø : 10 x cable diameter ; up to 20 mm Ø : 15 x cable diameter ; > 20 mm Ø : 20 x cable diameter
Min. Bending radius (Unmoved)	: Up to 12 mm Ø : 5 x cable diameter ; up to 20 mm Ø : 7.5 x cable diameter ; > 20 mm Ø : 10 x cable diameter
Temperature range	: -5°C to +70°C (Moved) : -30°C to +80°C (Unmoved)
Flame retardancy	: IEC 60332-1

LIYY 300/500V		
Cross Section	Outer Diameter approx.	Cable Weight approx.
(mm ²)	(mm)	(kg/km)
2 x 0.14	3.2	13.2
3 x 0.14	3.4	16
4 x 0.14	3.6	18.9
5 x 0.14	3.9	22.2
6 x 0.14	4.1	27
7 x 0.14	4.2	28.4
8 x 0.14	4.9	35.2
9 x 0.14	5.1	37.1
10 x 0.14	5.2	41.2
12 x 0.14	5.6	48.4
14 x 0.14	5.8	52.9
16 x 0.14	6.1	59.1
20 x 0.14	7.0	70.8
21 x 0.14	7.2	76.9
25 x 0.14	7.8	87.2
27 x 0.14	7.8	97
28 x 0.14	7.8	103.2
30 x 0.14	8.0	108.4
32 x 0.14	8.2	117
36 x 0.14	8.6	126.8
37 x 0.14	8.9	118
40 x 0.14	9.3	139.1
44 x 0.14	9.6	152.9
50 x 0.14	10.4	170.9
52 x 0.14	10.6	175
56 x 0.14	10.7	187
61 x 0.14	15.9	285
2 x 0.25	3.8	18
3 x 0.25	4.0	22
4 x 0.25	4.3	26.2
5 x 0.25	4.7	31
6 x 0.25	5.0	41
7 x 0.25	5.1	42
8 x 0.25	6.2	49.2
10 x 0.25	6.8	58
12 x 0.25	7.0	67
14 x 0.25	7.3	75.3
15 x 0.25	7.5	79
16 x 0.25	7.7	84.3
18 x 0.25	8.1	93
20 x 0.25	8.6	102
21 x 0.25	9.0	106
24 x 0.25	9.6	122
25 x 0.25	9.9	138.5
30 x 0.25	10.3	155
32 x 0.25	10.7	164
36 x 0.25	11.1	182.2
40 x 0.25	12.0	200
50 x 0.25	12.9	257.1
61 x 0.25	13.7	305.2

LIYY 300/500V		
Cross Section	Outer Diameter approx.	Cable Weight approx.
(mm ²)	(mm)	(kg/km)
2 x 0.34	4.2	22.2
3 x 0.34	4.4	31
4 x 0.34	4.8	43.2
5 x 0.34	5.5	53.8
6 x 0.34	5.7	55.8
7 x 0.34	5.9	62
8 x 0.34	7.1	73.1
10 x 0.34	7.6	82
12 x 0.34	7.8	102
14 x 0.34	8.2	109
16 x 0.34	8.7	127
20 x 0.34	9.6	159.3
21 x 0.34	10.4	167
24 x 0.34	11.0	188
25 x 0.34	11.3	207
30 x 0.34	11.6	226
32 x 0.34	12.1	245
36 x 0.34	12.5	284
40 x 0.34	13.5	317
48 x 0.34	14.6	402
50 x 0.34	15.0	407
2 x 0.5	4.7	40
3 x 0.5	5.0	47
4 x 0.5	5.6	56
5 x 0.5	6.1	65
6 x 0.5	6.8	73
7 x 0.5	6.9	82
8 x 0.5	8.0	90
9 x 0.5	8.4	105.3
10 x 0.5	8.6	117
12 x 0.5	8.9	133
16 x 0.5	10.2	170
20 x 0.5	11.4	214
24 x 0.5	12.3	266
25 x 0.5	12.7	285
30 x 0.5	13.2	304
40 x 0.5	15.8	392
2 x 0.75	5.1	48
3 x 0.75	5.6	57
4 x 0.75	6.1	69
5 x 0.75	6.9	78
6 x 0.75	7.8	102
8 x 0.75	8.7	126
10 x 0.75	9.4	149
12 x 0.75	10.1	176
16 x 0.75	11.2	218
20 x 0.75	12.4	274
24 x 0.75	14.0	280
30 x 0.75	14.9	393
2 x 1.0	5.6	55
2 x 1.5	6.8	74

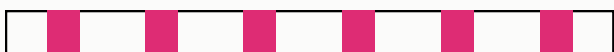
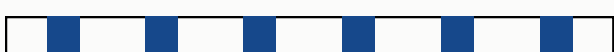
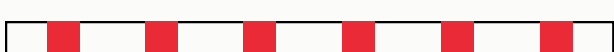
DIN 47100 COLOUR CODE

TYPE : LIYY, LIYCY

Core no.	Color	
1	white	
2	brown	
3	green	
4	yellow	
5	grey	
6	pink	
7	blue	
8	red	
9	black	
10	violet	
11	grey / pink	
12	red / blue	
13	white / green	
14	brown / green	
15	white / yellow	

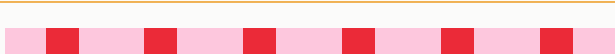
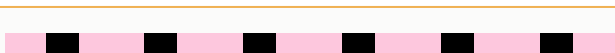
DIN 47100 COLOUR CODE

TYPE : LIYY, LIYCY

Core no.	Color	
16	yellow / brown	
17	white / grey	
18	grey / brown	
19	white / pink	
20	pink / brown	
21	white / blue	
22	brown / blue	
23	white / red	
24	brown / red	
25	white / black	
26	brown / black	
27	grey / green	
28	yellow / grey	
29	pink / green	
30	yellow / pink	

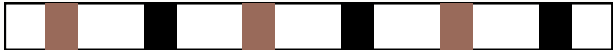
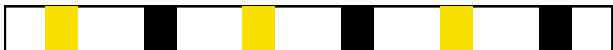
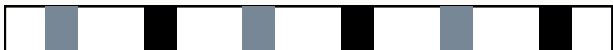
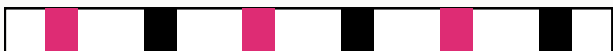
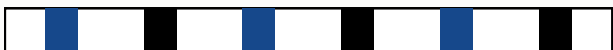
DIN 47100 COLOUR CODE

TYPE : LIYY, LIYCY

Core no.	Color	
31	green / blue	
32	yellow / blue	
33	green / red	
34	yellow / red	
35	green / black	
36	yellow / black	
37	grey / blue	
38	pink / blue	
39	grey / red	
40	pink / red	
41	grey / black	
42	pink / black	
43	blue / black	
44	red / black	
45	white / brown / black	

DIN 47100 COLOUR CODE

TYPE : LIYY, LIYCY

Core no.	Color	
46	yellow / green / black	
47	grey / pink / black	
48	red / blue / black	
49	white / green / black	
50	brown / green / black	
51	white / yellow / black	
52	yellow / brown / black	
53	white / grey / black	
54	grey / brown / black	
55	white / pink / black	
56	pink / brown / black	
57	white / blue / black	
58	brown / blue / black	
59	white / red / black	
60	brown / red / black	

DIN 47100 COLOUR CODE

TYPE : LIYY, LIYCY

Core no.	Color	
61	black / white	