



SARASWATI CABLES: LiYCY Cable as per VDE 0812

Application : LiYCY is a screened data cable for low frequency applications. It can be used for signal transmission between electronic devices, in computer systems or process control units with increased electromagnetic compatibility requirements. To be installed in dry and humid rooms and used as a termination and connection cable in the control, measuring and signal technology. The cable is used for example in computer systems, instrumentation technology, office equipment and balances. The cable is designed for fixed installation and for conditional flexible use. The screen provides protection against electromagnetic interferences.

Compliance to : VDE 0812

Conductor: Class 5 Flexible Copper Conductor IEC 60228 & VDE 0295

Insulation: Specially Formulated PVC

Screen /Braid :-Tinned Copper Wire Braid

Outer Sheath : Specially Formulated PVC

Outer Sheath Colour : Grey

CABLE CONSTRUCTION : Central textile strength member, cores laid up in concentric layers

Additional Features : Halogen Free compliant to IEC 60754-1 & VDE 0482-754-1

Maximum Tensile Load 20 N/mm²

Nominal Voltage Rating :

0.14mm²: 350V

Above 0.14mm²: 500V

Electrical Characteristics:-

Specific Volume Resistivity > 20 G Ohm-cm

Mutual Capacitance@ 800 Hz :- Core to Core : Approx 120 nF/km

Core to Screen : Approx 160 nF/km

Inductance : Approx.0.65 mH/km

Test Voltage AC: 0.14mm²: 1200V

Above 0.14mm²: 1500V

Minimum Bending Radius : Fixed 6 x D

Temperature range: Static: : -30°C to +80°C

Flexible : -5°C to +70°C

Core Identification : acc. to DIN 47100

Flammability : flame retardant acc. to IEC 60332-1-2





SARASWATI CABLES & ALLIED INDUSTRIES

R 1
Valid From: 01-12-2022

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Nominal Size No of Conductors X Conductor Size	Max DC Conductor Resistance @ 20°C	Conductor Con- struction	Approximate Outer Diameter
2 X 0.14	138	18/0.100	3.90
2 X 0.25	79.0	14/0.160	4.60
2 X 0.34	57.0	19/0.160	4.80
2 X 0.50	39.0	16/0.210	5.00
2 X 0.75	26.0	24/0.210	6.70
2 X 1.00	19.50	32/0.210	7.00
2 X 1.50	13.30	30/0.250	7.70
3 X 0.14	138	18/0.100	4.00
3 X 0.25	79.0	14/0.160	4.80
3 X 0.34	57.0	19/0.160	5.00
3 X 0.50	39.0	16/0.210	5.30
3 X 0.75	26.0	24/0.210	7.00
3 X 1.00	19.50	32/0.210	7.30
3 X 1.50	13.30	30/0.250	8.00
4 X 0.14	138	18/0.100	4.20
4 X 0.25	79.0	14/0.160	5.20
4 X 0.34	57.0	19/0.160	5.40
4 X 0.50	39.0	16/0.210	5.70
4 X 0.75	26.0	24/0.210	7.60
4 X 1.00	19.50	32/0.210	8.00
4 X 1.50	13.30	30/0.250	9.00
5 X 0.14	138	18/0.100	4.60
5 X 0.25	79.0	14/0.160	5.70
5 X 0.34	57.0	19/0.160	5.90
5 X 0.50	39.0	16/0.210	6.40
5 X 0.75	26.0	24/0.210	8.20
5 X 1.00	19.50	32/0.210	8.60
5 X 1.50	13.30	30/0.250	10.00



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6 X 0.14	138.00	18/0.100	4.90
6 X 0.25	79.00	14/0.160	6.30
6 X 0.34	57.00	19/0.160	6.60
6 X 0.50	39.00	16/0.210	6.90
6 X 0.75	26.00	24/0.210	9.10
7 X 0.14	138.00	18/0.100	5.0
7 X 0.25	79.00	14/0.160	6.30
7 X 0.34	57.00	19/0.160	6.70
7 X 0.50	39.00	16/0.210	7.0
7 X 0.75	26.00	24/0.210	9.70
7 X 1.00	19.50	32/0.210	9.20
7 X 1.50	13.30	30/0.250	10.80
8 X 0.14	138.00	18/0.100	6.0
8 X 0.25	79.00	14/0.160	6.40
8 X 0.34	57.00	19/0.160	7.0
8 X 0.50	39.00	16/0.210	7.30
8 X 0.75	26.00	24/0.210	9.80
8 X 1.00	19.50	32/0.210	10.50
10 X 0.25	79.00	14/0.160	6.70
10 X 0.50	39.00	16/0.210	8.80
10 X 0.75	26.00	24/0.210	11.70
10 X 1.00	19.50	32/0.210	11.50
12 X 0.14	138.00	18/0.100	6.70
12 X 0.34	79.00	19/0.160	9.0
12 X 0.50	57.00	16/0.210	9.50
12 X 0.75	39.00	24/0.210	12.00
12 X 1.00	26.00	32/0.210	12.00
12 X 1.50	19.50	30/0.250	14.00



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14 X 0.25	79.00	14/0.160	8.00
14 X 0.34	57.00	19/0.160	9.50
15 X 0.25	79.00	14/0.160	9.40
16 X 0.14	138.00	18/0.100	7.30
16 X 0.25	79.00	14/0.160	9.60
16 X 0.50	57.00	16/0.210	10.70
18 X 0.25	79.00	14/0.160	10.00
18 X 0.75	26.00	24/0.210	13.90
20 X 0.14	138.00	18/0.100	15.50
20 X 0.50	57.00	16/0.210	10.20
21 X 0.25	79.00	14/0.160	11.60
25 X 0.50	57.00	16/0.210	10.50
25 X 0.75	26.00	24/0.210	16.60
30 X 0.34	57.00	19/0.160	13.30



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SARASWATI CABLES : LiYCY Pair Cables as per VDE 0812

Nominal Size No of Pairs X Conductor Size	Loop Resistance @ 20°C	Conductor Construction	Approximate Outer Diameter
2 P X 0.14	276.00	18/0.100	5.80
2 P X 0.25	151.00	14/0.160	6.60
2 P X 0.34	115.00	19/0.160	7.50
2 P X 0.50	75.60	16/0.210	8.20
2 P X 0.75	50.60	24/0.210	8.60
3 P X 0.14	276.00	18/0.100	6.20
3 P X 0.25	151.00	14/0.160	7.00
3 P X 0.34	115.00	19/0.160	7.90
3 P X 0.50	75.60	16/0.210	8.70
3 P X 0.75	50.60	24/0.210	9.50
4 P X 0.14	276.00	18/0.100	6.80
4 P X 0.25	151.00	14/0.160	7.60
4 P X 0.34	115.00	19/0.160	8.50
4 P X 0.50	75.60	16/0.210	9.30
4 P X 0.75	50.60	24/0.210	10.80
5 P X 0.14	276.00	18/0.100	7.70
5 P X 0.25	151.00	14/0.160	8.40
6 P X 0.14	276.00	18/0.100	7.90
6 P X 0.25	151.00	14/0.160	8.60
6 P X 0.50	75.60	16/0.210	10.80
6 P X 0.75	50.60	24/0.210	12.50
8 P X 0.14	276.00	18/0.100	8.60
8 P X 0.25	151.00	14/0.160	9.40
8 P X 0.50	75.60	16/0.210	11.80
8 P X 0.75	50.60	24/0.210	14.60
10 P X 0.14	276.00	18/0.100	9.50
10 P X 0.25	151.00	14/0.160	10.70
12 P X 0.14	276.00	18/0.100	9.90
12 P X 0.50	75.60	16/0.210	14.00
12 P X 0.75	50.60	24/0.210	17.80
16 P X 0.14	276.00	18/0.100	11.20
16 P X 0.75	50.60	24/0.210	18.70