



**KUMANDA KABLOLARI**  
***CONTROL CABLES***

## JY(st)Y...Lg



### Kullanım Alanı

Elektronik yangın kontrol sistemlerindeki, sabit tesisatlarda yangın ihbar kablosu olarak kullanılır.

### Kablo Yapısı

- Elektrolitik bakır iletken
- VDE0815 Standardına uygun renklerde PVC izolasyon
- Çiftler halinde bükülü damarlar
- Oluşan çiftler katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bakır toprak iletkeni
- Al-Pes folyo ekran
- PVC dış kılıf , RAL3000 Kırmızı renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standart: VDE 0815

### Elektriksel Özellikler

**Çalışma Gerilimi**  
300 V

**Test Gerilimi**  
800 V

**İzolasyon Direnci**  
> 100MΩ km

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**Aleve Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used fire alarm connections in the electronic fire control systems at fixed indoor installations.

### Cable Construction

- Bare copper conductor
- PVC insulation, with colour coding according to VDE0815
- Cores twisted in pairs
- Pairs twisted in layers
- Polyester tape wrapping
- Tinned copper drain wire
- Al-Pes Foil screen
- PVC outer sheath, RAL3000 Red colour
- Packing in 500m or 1000m drum
- Reference Standard: Generally VDE 0815

### Electrical Data

**Operating Voltage**  
300 V

**Test Voltage**  
800 V

**Insulation Resistance**  
> 100 MΩ km

**Temperature Range**  
-30°C ... + 70°C

**Min. Bending Radius**  
10 x Overall Diameter

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm)	Max. loop Direnci (20°C) Max. Loop Resistance (ohm/km)
0.60	130.0
0.80	73.2

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
1.00	36.0
1.50	24.0
2.50	14.5

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm)	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
1 x 2 x 0.60	4.4	8.0	24
2 x 2 x 0.60	5.1	14.0	34
3 x 2 x 0.60	6.1	17.0	46
4 x 2 x 0.60	6.5	23.0	55
5 x 2 x 0.60	7.0	28.0	64
6 x 2 x 0.60	7.5	34.0	73
8 x 2 x 0.60	7.9	45.0	89
10 x 2 x 0.60	9.0	57.0	110
12 x 2 x 0.60	9.4	68.0	126
14 x 2 x 0.60	9.9	79.0	142
16 x 2 x 0.60	10.4	90.0	158
20 x 2 x 0.60	11.3	111.0	190

1 x 2 x 0.80	5.6	11.0	37
2 x 2 x 0.80	6.7	21.0	56
3 x 2 x 0.80	8.2	30.0	78
4 x 2 x 0.80	9.0	40.0	96
5 x 2 x 0.80	9.8	49.0	114
6 x 2 x 0.80	10.6	59.0	131
8 x 2 x 0.80	11.2	78.0	163
10 x 2 x 0.80	13.2	99.0	212
12 x 2 x 0.80	13.8	119.0	244
14 x 2 x 0.80	14.7	138.0	278
16 x 2 x 0.80	15.5	157.0	310
20 x 2 x 0.80	17.0	196.0	376

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
1 x 2 x 1.00	6.2	19.0	55
2 x 2 x 1.00	8.1	33.0	85
1 x 2 x 1.50	6.8	32.0	70
2 x 2 x 1.50	9.6	57.0	125
1 x 2 x 2.50	7.8	49.0	97
2 x 2 x 2.50	10.6	100.0	167

## LIYY



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- DIN47100 Standardına uygun renklerde PVC izolasyon
- Damarlar katlar halinde bükülür
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Test Gerilimi**  
1200 V

**İzolasyon Direnci**  
> 200 MΩ km

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**Alev Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with colour coding according to DIN47100
- Cores twisted in layers
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Test Voltage**  
1200 V

**Insulation Resistance**  
> 200 MΩ km

**Temperature Range**  
-30°C ... + 70°C

**Min. Bending Radius**  
10 x Overall Diameter

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.14	148.0
0.22	92.0
0.25	79.9
0.34	53.0
0.50	39.0
0.75	26.0
1.00	19.5
1.50	13.3
2.50	7.98

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.14	3.4	2.7	13
3 x 0.14	3.6	4.1	16
4 x 0.14	3.9	5.4	19
5 x 0.14	4.2	6.8	23
6 x 0.14	4.5	8.1	26
7 x 0.14	4.5	9.5	28
8 x 0.14	4.9	10.8	35
9 x 0.14	5.6	11.8	38
10 x 0.14	5.6	13.6	39
12 x 0.14	5.8	16.3	45
14 x 0.14	6.1	19.0	50
16 x 0.14	6.4	21.7	56
18 x 0.14	6.7	24.4	62
20 x 0.14	6.7	25.8	76
25 x 0.14	7.8	33.9	83
2 x 0.22	3.6	4.0	20
3 x 0.22	3.8	6.2	22
4 x 0.22	4.1	8.2	25
5 x 0.22	4.2	10.2	32
6 x 0.22	5.1	12.2	36
7 x 0.22	5.1	14.2	38
8 x 0.22	5.3	16.4	45
9 x 0.22	5.7	18.8	49
10 x 0.22	5.7	21.0	52
12 x 0.22	6.0	24.8	64
14 x 0.22	6.4	29.0	73
16 x 0.22	6.8	33.1	78
18 x 0.22	8.2	37.0	87
20 x 0.22	8.2	41.8	95
25 x 0.22	9.0	52.4	120
2 x 0.25	3.8	4.8	20
3 x 0.25	4.0	7.1	24
4 x 0.25	4.3	9.5	26
5 x 0.25	4.7	11.9	31
6 x 0.25	5.1	14.3	35
7 x 0.25	5.1	16.6	39
8 x 0.25	5.8	19.0	46
9 x 0.25	6.4	20.8	51
10 x 0.25	6.4	23.8	54
12 x 0.25	6.6	28.5	62
14 x 0.25	6.9	33.3	71
16 x 0.25	7.3	38.0	80
18 x 0.25	8.2	42.8	88
20 x 0.25	8.2	48.0	98
25 x 0.25	9.0	59.4	128

**LIYY**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.34	4.4	6.4	25
3 x 0.34	4.7	9.7	31
4 x 0.34	5.1	12.9	35
5 x 0.34	5.5	16.1	41
6 x 0.34	6.0	19.3	48
7 x 0.34	6.0	22.6	54
8 x 0.34	6.4	24.8	62
9 x 0.34	7.6	28.4	72
10 x 0.34	7.6	32.2	75
12 x 0.34	7.9	38.7	86
14 x 0.34	8.3	45.1	99
16 x 0.34	8.7	51.6	111
18 x 0.34	9.3	58.0	123
20 x 0.34	9.3	63.0	138
25 x 0.34	11.0	80.6	171
2 x 0.50	4.7	9.6	30
3 x 0.50	5.0	14.4	38
4 x 0.50	5.3	19.2	42
5 x 0.50	5.8	24.0	51
6 x 0.50	6.3	28.8	60
7 x 0.50	6.3	33.6	67
8 x 0.50	7.2	38.4	80
9 x 0.50	8.0	43.2	91
10 x 0.50	8.0	48.0	96
12 x 0.50	8.3	57.6	109
14 x 0.50	8.7	67.2	125
16 x 0.50	9.2	76.8	141
18 x 0.50	10.0	86.4	161
20 x 0.50	10.0	96.0	182
25 x 0.50	11.6	120.0	218
2 x 0.75	5.0	14.4	39
3 x 0.75	5.5	21.6	48
4 x 0.75	6.0	28.8	56
5 x 0.75	6.6	36.0	68
6 x 0.75	7.2	43.2	80
7 x 0.75	7.2	50.4	90
8 x 0.75	8.3	57.6	117
9 x 0.75	9.2	64.8	124
10 x 0.75	9.2	72.0	127
12 x 0.75	9.7	86.4	153
14 x 0.75	10.2	100.8	175
16 x 0.75	10.8	115.2	197
18 x 0.75	11.8	129.6	220
20 x 0.75	11.8	144.0	265
25 x 0.75	13.6	180.0	305

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 1.00	5.3	19.2	44
3 x 1.00	5.7	28.8	57
4 x 1.00	6.3	38.4	68
5 x 1.00	6.9	48.0	82
6 x 1.00	7.5	57.6	97
7 x 1.00	7.5	67.2	109
8 x 1.00	8.9	76.8	130
9 x 1.00	9.8	86.4	153
10 x 1.00	9.8	96.0	159
12 x 1.00	10.1	115.2	185
14 x 1.00	10.7	134.4	213
16 x 1.00	11.3	153.6	241
18 x 1.00	12.4	172.8	268
20 x 1.00	12.4	192.0	338
25 x 1.00	14.2	240.0	372
2 x 1.50	6.3	28.8	58
3 x 1.50	6.8	43.2	82
4 x 1.50	7.5	57.6	96
5 x 1.50	8.2	72.0	117
6 x 1.50	9.0	86.4	138
7 x 1.50	9.0	100.8	157
8 x 1.50	10.3	115.2	175
9 x 1.50	10.8	129.6	203
10 x 1.50	11.8	144.0	227
12 x 1.50	12.2	172.8	267
14 x 1.50	13.1	201.6	314
16 x 1.50	13.8	230.4	354
18 x 1.50	14.8	259.2	396
20 x 1.50	14.8	288.0	440
25 x 1.50	17.4	360.0	547
2 x 2.50	7.4	48.0	90
3 x 2.50	8.5	72.0	125
4 x 2.50	8.7	96.0	142
5 x 2.50	9.8	120.0	178
6 x 2.50	10.7	144.0	211
7 x 2.50	10.7	168.0	241
8 x 2.50	11.8	192.0	287
9 x 2.50	13.0	216.0	312
10 x 2.50	14.0	240.0	347
12 x 2.50	14.5	288.0	408
14 x 2.50	15.5	336.0	478
16 x 2.50	16.4	384.0	541
18 x 2.50	17.6	432.0	604
20 x 2.50	17.6	480.0	645
25 x 2.50	20.4	600.0	825

## LIYCY



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- DIN47100 Standardına uygun renklerde PVC izolasyon
- Damarlar katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bakır tellerden örgü
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Test Gerilimi**  
1200 V

**İzolasyon Direnci**  
> 200 MΩ km

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**Alev Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with colour coding according to DIN47100
- Cores twisted in layers
- Polyester tape wrapping
- Tinned copper wire braiding
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Test Voltage**  
1200 V

**Insulation Resistance**  
> 200 MΩ km

**Temperature Range**  
-30°C ... + 70°C

**Min. Bending Radius**  
10 x Overall Diameter

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.14	148.0
0.22	92.0
0.25	79.9
0.34	53.0
0.50	39.0
0.75	26.0
1.00	19.5
1.50	13.3
2.50	7.98



Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.14	3.9	9.9	21
3 x 0.14	4.1	11.2	25
4 x 0.14	4.4	14.5	30
5 x 0.14	4.7	15.9	33
6 x 0.14	5.0	17.3	37
7 x 0.14	5.0	18.7	39
8 x 0.14	5.4	20.0	48
9 x 0.14	6.0	23.8	51
10 x 0.14	6.0	26.9	54
12 x 0.14	6.3	29.7	59
14 x 0.14	6.6	32.6	65
16 x 0.14	6.9	37.5	73
18 x 0.14	7.7	40.4	79
20 x 0.14	7.7	48.0	96
25 x 0.14	8.5	60.1	111
2 x 0.22	4.3	9.1	24
3 x 0.22	4.6	13.8	29
4 x 0.22	5.0	16.0	32
5 x 0.22	5.2	18.7	39
6 x 0.22	5.8	21.3	43
7 x 0.22	5.8	24.2	52
8 x 0.22	6.3	28.0	57
9 x 0.22	6.8	31.0	61
10 x 0.22	6.8	33.2	70
12 x 0.22	7.1	38.0	76
14 x 0.22	7.6	43.0	87
16 x 0.22	8.0	48.5	100
18 x 0.22	8.8	54.0	108
20 x 0.22	8.8	58.0	118
25 x 0.22	9.6	72.0	140
2 x 0.25	4.3	13.8	27
3 x 0.25	4.5	16.2	31
4 x 0.25	4.8	18.6	36
5 x 0.25	5.2	23.0	43
6 x 0.25	5.6	25.5	48
7 x 0.25	5.6	27.9	52
8 x 0.25	6.5	30.0	57
9 x 0.25	6.9	35.0	65
10 x 0.25	6.9	39.5	71
12 x 0.25	7.1	44.4	80
14 x 0.25	7.4	49.3	88
16 x 0.25	7.8	54.4	97
18 x 0.25	8.9	68.8	116
20 x 0.25	8.9	70.0	132
25 x 0.25	9.9	87.0	153

**LIYCY**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.34	4.9	15.6	32
3 x 0.34	5.2	20.8	41
4 x 0.34	5.6	24.1	47
5 x 0.34	6.0	29.4	56
6 x 0.34	6.5	32.9	63
7 x 0.34	6.5	36.1	69
8 x 0.34	7.7	43.0	83
9 x 0.34	8.3	47.2	89
10 x 0.34	8.3	58.1	103
12 x 0.34	8.6	64.9	115
14 x 0.34	9.0	71.9	127
16 x 0.34	9.6	78.8	144
18 x 0.34	10.4	89.9	162
20 x 0.34	10.4	92.0	166
25 x 0.34	11.7	115.1	208
2 x 0.50	5.1	20.7	38
3 x 0.50	5.4	25.7	47
4 x 0.50	5.8	30.6	55
5 x 0.50	6.3	37.6	66
6 x 0.50	6.8	42.7	75
7 x 0.50	6.8	47.5	82
8 x 0.50	8.3	56.4	94
9 x 0.50	8.8	62.0	113
10 x 0.50	8.8	74.6	122
12 x 0.50	9.0	84.7	138
14 x 0.50	9.6	94.8	158
16 x 0.50	10.1	109.1	179
18 x 0.50	11.0	119.5	196
20 x 0.50	11.0	127.0	226
25 x 0.50	12.6	169.4	275
2 x 0.75	5.7	25.8	46
3 x 0.75	6.0	35.0	59
4 x 0.75	6.5	42.5	71
5 x 0.75	7.1	52.1	86
6 x 0.75	7.7	59.7	98
7 x 0.75	7.7	67.0	108
8 x 0.75	8.7	76.0	117
9 x 0.75	10.0	85.0	128
10 x 0.75	10.0	104.3	165
12 x 0.75	10.4	119.2	187
14 x 0.75	10.9	134.5	210
16 x 0.75	11.5	150.0	234
18 x 0.75	12.1	165.5	257
20 x 0.75	12.1	184.0	284
25 x 0.75	14.4	234.2	361

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 1.00	5.9	31.0	52
3 x 1.00	6.3	42.0	68
4 x 1.00	6.9	52.0	83
5 x 1.00	7.6	64.0	100
6 x 1.00	8.5	84.0	124
7 x 1.00	8.5	93.0	137
8 x 1.00	9.4	102.0	156
9 x 1.00	10.6	114.0	174
10 x 1.00	10.6	129.0	193
12 x 1.00	10.8	149.0	221
14 x 1.00	11.4	169.0	249
16 x 1.00	12.0	189.0	278
18 x 1.00	13.1	223.0	326
20 x 1.00	13.1	238.0	367
25 x 1.00	15.0	304.0	438
2 x 1.50	6.9	43.0	71
3 x 1.50	7.3	58.0	91
4 x 1.50	8.2	82.0	124
5 x 1.50	8.9	97.0	146
6 x 1.50	9.9	112.0	173
7 x 1.50	9.9	127.0	192
8 x 1.50	11.0	143.0	213
9 x 1.50	12.5	162.0	264
10 x 1.50	12.5	191.0	285
12 x 1.50	13.2	220.0	326
14 x 1.50	13.9	250.0	369
16 x 1.50	14.6	280.0	411
18 x 1.50	15.8	318.0	470
20 x 1.50	15.8	342.0	510
25 x 1.50	18.2	425.0	622
2 x 2.50	7.9	64.0	96
3 x 2.50	8.6	97.0	138
4 x 2.50	9.6	122.0	175
5 x 2.50	10.5	150.0	213
6 x 2.50	11.4	175.0	247
7 x 2.50	11.4	199.0	277
8 x 2.50	14.0	220.0	326
9 x 2.50	14.8	240.0	364
10 x 2.50	14.8	298.0	412
12 x 2.50	15.5	346.0	482
14 x 2.50	16.3	396.0	547
16 x 2.50	17.2	446.0	613
18 x 2.50	18.5	496.0	654
20 x 2.50	18.5	534.0	684
25 x 2.50	21.4	671.0	920

## LIY(st)Y



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- DIN47100 Standardına uygun renklerde PVC izolasyon
- Damarlar katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bükülü bakır toprak iletkeni
- Al-Pes folyo ekran
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Test Gerilimi**  
1200 V

**İzolasyon Direnci**  
> 200 MΩ km

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**Aleve Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with colour coding according to DIN47100
- Cores twisted in layers
- Polyester tape wrapping
- Stranded tinned copper drain wire
- Al-Pes Foil screen
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Test Voltage**  
1200 V

**Insulation Resistance**  
> 200 MΩ km

**Temperature Range**  
-30°C ... + 70°C

**Min. Bending Radius**  
10 x Overall Diameter

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.14	148.0
0.22	92.0
0.25	79.9
0.34	53.0
0.50	39.0
0.75	26.0
1.00	19.5
1.50	13.3
2.50	7.98

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.14	3.4	4.1	14
3 x 0.14	3.6	5.4	17
4 x 0.14	3.9	6.8	21
5 x 0.14	4.2	8.1	24
6 x 0.14	4.5	9.5	27
7 x 0.14	4.5	10.9	30
8 x 0.14	5.0	12.7	36
9 x 0.14	5.3	13.1	39
10 x 0.14	5.6	14.9	41
12 x 0.14	5.8	17.6	46
14 x 0.14	6.1	20.4	52
16 x 0.14	6.4	23.1	58
18 x 0.14	6.7	25.8	63
20 x 0.14	7.4	26.7	82
25 x 0.14	7.8	35.3	84
2 x 0.22	3.7	5.0	21
3 x 0.22	3.9	7.2	23
4 x 0.22	4.2	9.0	26
5 x 0.22	4.6	11.5	33
6 x 0.22	5.2	13.5	37
7 x 0.22	5.2	15.5	39
8 x 0.22	5.5	17.5	45
9 x 0.22	5.9	20.0	50
10 x 0.22	6.1	22.0	54
12 x 0.22	6.3	26.0	60
14 x 0.22	6.8	31.0	67
16 x 0.22	7.1	35.0	76
18 x 0.22	7.4	39.0	84
20 x 0.22	7.9	43.0	91
25 x 0.22	8.9	53.0	115
2 x 0.25	3.8	7.1	19
3 x 0.25	4.0	9.5	23
4 x 0.25	4.3	11.9	28
5 x 0.25	4.7	14.3	33
6 x 0.25	5.1	16.6	38
7 x 0.25	5.1	19.0	42
8 x 0.25	5.6	22.0	49
9 x 0.25	6.1	24.0	54
10 x 0.25	6.4	26.1	57
12 x 0.25	6.6	30.9	65
14 x 0.25	6.9	35.6	73
16 x 0.25	7.3	40.4	82
18 x 0.25	7.7	45.1	91
20 x 0.25	8.8	49.0	103
25 x 0.25	9.6	61.8	125

**LIY(st)Y**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.34	4.4	9.7	25
3 x 0.34	4.7	12.9	31
4 x 0.34	5.1	16.1	38
5 x 0.34	5.5	19.3	45
6 x 0.34	6.0	22.6	51
7 x 0.34	6.0	25.8	57
8 x 0.34	6.6	28.0	65
9 x 0.34	7.1	32.0	72
10 x 0.34	7.6	35.5	78
12 x 0.34	7.9	41.9	90
14 x 0.34	8.3	48.3	102
16 x 0.34	8.9	54.8	118
18 x 0.34	9.4	61.2	131
20 x 0.34	10.0	67.0	143
25 x 0.34	11.0	83.8	174
2 x 0.50	4.7	14.5	31
3 x 0.50	5.0	19.3	39
4 x 0.50	5.4	24.1	47
5 x 0.50	6.0	29.0	56
6 x 0.50	6.4	33.8	65
7 x 0.50	6.4	38.6	72
8 x 0.50	7.3	42.0	79
9 x 0.50	7.9	47.0	86
10 x 0.50	8.4	53.1	99
12 x 0.50	8.7	62.7	114
14 x 0.50	9.1	72.4	134
16 x 0.50	9.6	82.0	150
18 x 0.50	10.1	91.7	166
20 x 0.50	10.6	99.0	175
25 x 0.50	11.9	125.5	228
2 x 0.75	5.2	21.7	41
3 x 0.75	5.5	29.0	52
4 x 0.75	6.0	36.2	64
5 x 0.75	6.6	43.4	75
6 x 0.75	7.2	50.7	87
7 x 0.75	7.2	57.9	98
8 x 0.75	8.0	62.0	101
9 x 0.75	8.8	70.0	115
10 x 0.75	9.4	79.6	138
12 x 0.75	9.7	94.1	160
14 x 0.75	10.2	108.6	182
16 x 0.75	10.8	123.0	205
18 x 0.75	11.6	137.5	233
20 x 0.75	12.0	150.0	238
25 x 0.75	13.6	188.2	312

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 1.00	5.4	29.0	49
3 x 1.00	5.7	39.0	63
4 x 1.00	6.3	48.0	77
5 x 1.00	6.9	58.0	92
6 x 1.00	7.5	68.0	106
7 x 1.00	7.5	77.0	119
8 x 1.00	8.7	83.0	128
9 x 1.00	9.4	95.0	140
10 x 1.00	9.8	106.0	168
12 x 1.00	10.1	125.0	195
14 x 1.00	10.7	145.0	223
16 x 1.00	11.5	164.0	256
18 x 1.00	12.1	183.0	284
20 x 1.00	12.8	201.0	295
25 x 1.00	14.4	251.0	388
2 x 1.50	6.4	38.0	63
3 x 1.50	6.8	57.0	89
4 x 1.50	7.5	71.0	110
5 x 1.50	8.4	85.0	135
6 x 1.50	9.2	99.0	157
7 x 1.50	9.2	113.0	176
8 x 1.50	10.4	120.0	183
9 x 1.50	11.5	135.0	208
10 x 1.50	12.0	156.0	247
12 x 1.50	12.4	184.0	287
14 x 1.50	13.1	212.0	328
16 x 1.50	14.0	240.0	375
18 x 1.50	14.8	269.0	417
20 x 1.50	15.7	296.0	430
25 x 1.50	17.4	368.0	561
2 x 2.50	8.0	71.0	106
3 x 2.50	8.7	94.0	137
4 x 2.50	9.6	118.0	169
5 x 2.50	10.6	141.0	202
6 x 2.50	11.8	165.0	240
7 x 2.50	11.8	188.0	269
8 x 2.50	13.3	202.0	290
9 x 2.50	14.6	223.0	330
10 x 2.50	15.3	259.0	377
12 x 2.50	15.9	306.0	438
14 x 2.50	16.7	353.0	501
16 x 2.50	17.7	401.0	564
18 x 2.50	18.7	448.0	628
20 x 2.50	20.0	484.0	690
25 x 2.50	22.2	613.0	858

## LIY(st)CY



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- DIN47100 Standardına uygun renklerde PVC izolasyon
- Damarlar katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bükülü bakır toprak iletkeni
- Al-Pes folyo ekran
- Kalaylı bakır tellerden örgü
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
1200 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

**Aleve Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with colour coding according to DIN47100
- Cores twisted in layers
- Polyester tape wrapping
- Stranded tinned copper drain wire
- Al-Pes Foil screen
- Tinned copper wire braiding
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
1200 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.14	148.0
0.22	92.0
0.25	79.9
0.34	53.0
0.50	39.0
0.75	26.0
1.00	19.5
1.50	13.3
2.50	7.98



Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.14	3.9	11.2	23
3 x 0.14	4.1	12.6	26
4 x 0.14	4.4	15.8	31
5 x 0.14	4.7	17.3	35
6 x 0.14	5.0	18.7	38
7 x 0.14	5.0	20.1	40
8 x 0.14	5.2	23.0	43
9 x 0.14	5.7	27.0	47
10 x 0.14	6.1	28.3	55
12 x 0.14	6.3	31.1	61
14 x 0.14	6.6	34.0	67
16 x 0.14	6.9	38.8	75
18 x 0.14	7.2	41.7	81
20 x 0.14	7.4	49.0	86
25 x 0.14	8.5	61.4	112
2 x 0.22	4.2	12.0	26
3 x 0.22	4.4	16.0	32
4 x 0.22	4.7	19.0	36
5 x 0.22	5.1	22.0	41
6 x 0.22	5.4	24.5	48
7 x 0.22	5.4	27.5	50
8 x 0.22	6.0	30.5	58
9 x 0.22	6.4	33.0	62
10 x 0.22	6.6	36.5	66
12 x 0.22	6.8	41.0	75
14 x 0.22	7.1	48.5	83
16 x 0.22	7.5	52.5	91
18 x 0.22	8.1	56.5	106
20 x 0.22	8.5	61.0	118
25 x 0.22	9.4	73.5	145
2 x 0.25	4.3	16.1	29
3 x 0.25	4.5	18.6	34
4 x 0.25	4.8	21.0	39
5 x 0.25	5.2	25.4	45
6 x 0.25	5.6	27.9	50
7 x 0.25	5.6	30.3	54
8 x 0.25	6.4	34.0	60
9 x 0.25	6.7	37.5	65
10 x 0.25	6.9	41.9	74
12 x 0.25	7.1	46.8	82
14 x 0.25	7.4	51.7	91
16 x 0.25	7.8	56.7	100
18 x 0.25	8.4	71.1	119
20 x 0.25	9.0	75.0	130
25 x 0.25	9.9	89.4	155

**LIY(st)CY**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.34	4.9	18.8	36
3 x 0.34	5.2	24.0	44
4 x 0.34	5.6	27.4	51
5 x 0.34	6.0	32.7	59
6 x 0.34	6.5	36.1	66
7 x 0.34	6.5	39.4	72
8 x 0.34	7.5	46.0	89
9 x 0.34	7.9	53.0	95
10 x 0.34	8.3	61.4	106
12 x 0.34	8.6	68.2	118
14 x 0.34	9.0	75.1	131
16 x 0.34	9.6	82.1	148
18 x 0.34	10.1	93.1	165
20 x 0.34	10.5	98.5	172
25 x 0.34	11.7	118.3	211
2 x 0.50	5.2	25.5	43
3 x 0.50	5.5	30.5	51
4 x 0.50	5.9	35.5	60
5 x 0.50	6.4	42.4	71
6 x 0.50	6.9	47.5	80
7 x 0.50	6.9	52.3	87
8 x 0.50	7.7	57.0	96
9 x 0.50	8.5	67.5	110
10 x 0.50	8.9	79.5	127
12 x 0.50	9.2	89.5	143
14 x 0.50	9.6	99.6	163
16 x 0.50	10.1	113.9	184
18 x 0.50	10.6	124.4	201
20 x 0.50	11.5	139.5	215
25 x 0.50	12.6	174.2	280
2 x 0.75	5.6	33.0	53
3 x 0.75	6.0	42.3	67
4 x 0.75	6.5	49.8	79
5 x 0.75	7.3	64.7	99
6 x 0.75	7.9	72.5	111
7 x 0.75	7.9	79.7	121
8 x 0.75	8.8	85.0	134
9 x 0.75	9.4	98.0	143
10 x 0.75	10.1	111.5	173
12 x 0.75	10.4	126.5	195
14 x 0.75	10.9	141.7	218
16 x 0.75	11.5	157.2	241
18 x 0.75	12.1	172.7	265
20 x 0.75	12.5	197.0	276
25 x 0.75	14.4	249.0	376

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 1.00	5.9	42.0	64
3 x 1.00	6.2	52.0	77
4 x 1.00	6.8	62.0	92
5 x 1.00	7.4	74.0	109
6 x 1.00	8.2	93.0	134
7 x 1.00	8.2	103.0	147
8 x 1.00	9.2	111.0	150
9 x 1.00	9.9	122.0	165
10 x 1.00	10.5	139.0	203
12 x 1.00	10.8	158.0	230
14 x 1.00	11.5	191.0	272
16 x 1.00	12.1	212.0	301
18 x 1.00	12.9	233.0	336
20 x 1.00	13.3	148.0	360
25 x 1.00	15.0	314.0	447
2 x 1.50	7.0	58.0	85
3 x 1.50	7.5	77.0	111
4 x 1.50	8.3	96.0	138
5 x 1.50	9.0	111.0	160
6 x 1.50	9.9	127.0	187
7 x 1.50	9.9	141.0	206
8 x 1.50	11.2	152.0	225
9 x 1.50	12.2	168.0	250
10 x 1.50	12.8	205.0	299
12 x 1.50	13.2	234.0	340
14 x 1.50	13.9	264.0	383
16 x 1.50	14.6	294.0	425
18 x 1.50	15.6	332.0	484
20 x 1.50	16.3	345.0	495
25 x 1.50	18.2	439.0	637
2 x 2.50	8.1	96.0	130
3 x 2.50	8.6	121.0	162
4 x 2.50	9.6	145.0	199
5 x 2.50	10.6	180.0	243
6 x 2.50	11.5	212.0	284
7 x 2.50	11.5	235.0	314
8 x 2.50	12.8	249.0	330
9 x 2.50	14.0	270.0	360
10 x 2.50	14.8	321.0	435
12 x 2.50	15.5	370.0	505
14 x 2.50	16.3	419.0	570
16 x 2.50	17.2	469.0	636
18 x 2.50	18.1	519.0	702
20 x 2.50	19.1	595.0	745
25 x 2.50	21.5	703.0	953

## LIYY-TP



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- DIN47100 Standardına uygun renklerde PVC izolasyon
- Çiftler halinde bükülü damarlar
- Oluşan çiftler katlar halinde bükülür
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Test Gerilimi**  
1200 V

**İzolasyon Direnci**  
> 200 MΩ km

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**Aleve Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with colour coding according to DIN47100
- Cores twisted in pairs
- Pairs twisted in layers
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Test Voltage**  
1200 V

**Insulation Resistance**  
> 200 MΩ km

**Temperature Range**  
-30°C ... + 70°C

**Min. Bending Radius**  
10 x Overall Diameter

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.14	148.0
0.25	79.9
0.34	53.0
0.50	39.0
0.75	26.0
1.00	19.5

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.14	4.9	5.4	22
3 x 2 x 0.14	5.2	8.1	28
4 x 2 x 0.14	5.7	10.9	34
5 x 2 x 0.14	6.3	13.6	41
6 x 2 x 0.14	6.8	16.3	47
8 x 2 x 0.14	7.3	21.7	59
10 x 2 x 0.14	8.2	27.1	71
12 x 2 x 0.14	8.6	32.6	82
14 x 2 x 0.14	9.2	38.0	94

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.25	5.6	9.5	29
3 x 2 x 0.25	5.9	14.3	38
4 x 2 x 0.25	6.5	19.0	47
5 x 2 x 0.25	7.2	23.8	57
6 x 2 x 0.25	7.8	28.5	66
8 x 2 x 0.25	8.4	38.0	83
10 x 2 x 0.25	9.7	47.5	105
12 x 2 x 0.25	10.2	57.0	122
14 x 2 x 0.25	10.9	66.5	140
2 x 2 x 0.34	6.6	13	39
3 x 2 x 0.34	7.0	19	51
4 x 2 x 0.34	7.8	26	64
5 x 2 x 0.34	8.6	32	77
6 x 2 x 0.34	9.6	39	95
8 x 2 x 0.34	10.2	52	119
10 x 2 x 0.34	11.6	64	146
12 x 2 x 0.34	12.2	77	170
14 x 2 x 0.34	13.3	90	201
2 x 2 x 0.50	7.0	19	47
3 x 2 x 0.50	7.4	29	63
4 x 2 x 0.50	8.2	39	80
5 x 2 x 0.50	9.0	48	97
6 x 2 x 0.50	10.1	58	118
8 x 2 x 0.50	10.8	77	150
10 x 2 x 0.50	12.3	97	184
12 x 2 x 0.50	13.1	116	221
14 x 2 x 0.50	14.0	135	253
2 x 2 x 0.75	8.0	29	62
3 x 2 x 0.75	8.5	43	84
4 x 2 x 0.75	9.6	58	111
5 x 2 x 0.75	10.6	72	135
6 x 2 x 0.75	11.6	87	159
8 x 2 x 0.75	12.6	116	209
10 x 2 x 0.75	14.4	145	256
12 x 2 x 0.75	15.3	174	307
14 x 2 x 0.75	16.4	203	353
2 x 2 x 1.00	8.3	39	73
3 x 2 x 1.00	8.9	58	101
4 x 2 x 1.00	10.0	77	134
5 x 2 x 1.00	11.1	97	163
6 x 2 x 1.00	12.1	116	192
8 x 2 x 1.00	13.2	154	252
10 x 2 x 1.00	15.0	193	311
12 x 2 x 1.00	16.0	232	373
14 x 2 x 1.00	17.1	270	429

## LIYCY-TP



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- DIN47100 Standardına uygun renklerde PVC izolasyon
- Çiftler halinde bükülü damarlar
- Oluşan çiftler katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bakır tellerden örgü
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
1200 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

**Alev Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with colour coding according to DIN47100
- Cores twisted in pairs
- Pairs twisted in layers
- Polyester tape wrapping
- Tinned copper braiding
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
1200 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.14	148.0
0.25	79.9
0.34	53.0
0.50	39.0
0.75	26.0
1.00	19.5

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section mm <sup>2</sup>	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.14	5.4	16.6	39
3 x 2 x 0.14	5.7	19.4	46
4 x 2 x 0.14	6.2	24.3	55
5 x 2 x 0.14	6.8	27.3	62
6 x 2 x 0.14	7.3	32.3	72
8 x 2 x 0.14	7.8	38.1	84
10 x 2 x 0.14	8.9	53.8	112
12 x 2 x 0.14	9.5	59.7	129
14 x 2 x 0.14	10.1	69.9	146

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.25	6.1	22.9	50
3 x 2 x 0.25	6.4	27.8	58
4 x 2 x 0.25	7.0	34.8	71
5 x 2 x 0.25	7.7	40.0	82
6 x 2 x 0.25	8.5	54.6	105
8 x 2 x 0.25	9.1	64.9	124
10 x 2 x 0.25	10.4	79.9	154
12 x 2 x 0.25	10.9	90.2	173
14 x 2 x 0.25	11.6	100.8	193
2 x 2 x 0.34	6.3	29.0	52
3 x 2 x 0.34	6.6	35.0	63
4 x 2 x 0.34	7.4	52.0	80
5 x 2 x 0.34	8.1	59.0	93
6 x 2 x 0.34	8.7	71.0	109
8 x 2 x 0.34	9.8	85.0	140
10 x 2 x 0.34	11.6	113.0	164
12 x 2 x 0.34	13.2	128.0	250
14 x 2 x 0.34	14.1	143.0	277
2 x 2 x 0.50	7.6	35.0	72
3 x 2 x 0.50	8.1	45.0	88
4 x 2 x 0.50	8.8	65.0	107
5 x 2 x 0.50	9.8	76.0	131
6 x 2 x 0.50	10.5	91.0	152
8 x 2 x 0.50	12	111.0	196
10 x 2 x 0.50	13.5	147.0	235
12 x 2 x 0.50	13.9	168.0	298
14 x 2 x 0.50	14.8	197.0	343
2 x 2 x 0.75	8.3	55.0	86
3 x 2 x 0.75	8.8	70.0	109
4 x 2 x 0.75	9.8	90.0	137
5 x 2 x 0.75	16.6	106.0	163
6 x 2 x 0.75	11.5	136.0	190
8 x 2 x 0.75	13.1	167.0	245
10 x 2 x 0.75	15.1	208.0	310
12 x 2 x 0.75	16.1	239.0	402
14 x 2 x 0.75	17.2	271.0	453
3 x 2 x 1.00	9.5	85.0	130
4 x 2 x 1.00	16.4	116.0	160
5 x 2 x 1.00	11.2	144.0	190
6 x 2 x 1.00	12.5	166.0	230
8 x 2 x 1.00	14.1	207.0	295
10 x 2 x 1.00	16.0	258.0	365
12 x 2 x 1.00	16.8	299.0	471
14 x 2 x 1.00	17.9	341.0	533

## LIY(st)Y-TP



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- DIN47100 Standardına uygun renklerde PVC izolasyon
- Çiftler halinde bükülü damarlar
- Oluşan çiftler katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bükülü bakır toprak iletkeni
- Al-Pes folyo ekran
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
1200 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

**Aleve Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with colour coding according to DIN47100
- Cores twisted in pairs
- Pairs twisted in layers
- Polyester tape wrapping
- Stranded tinned copper drain wire
- Al-Pes Foil screen
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
1200 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.14	148.0
0.25	79.9
0.34	53.0
0.50	39.0
0.75	26.0
1.00	19.5

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.14	4.9	6.8	23
3 x 2 x 0.14	5.2	9.5	29
4 x 2 x 0.14	5.7	12.2	36
5 x 2 x 0.14	6.3	14.9	42
6 x 2 x 0.14	6.8	17.6	49
8 x 2 x 0.14	7.3	23.1	60
10 x 2 x 0.14	8.2	28.5	73
12 x 2 x 0.14	8.6	33.9	84
14 x 2 x 0.14	9.2	39.4	95



Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.25	5.6	11.9	32
3 x 2 x 0.25	5.9	16.6	40
4 x 2 x 0.25	6.5	21.4	49
5 x 2 x 0.25	7.2	26.1	59
6 x 2 x 0.25	7.8	30.9	68
8 x 2 x 0.25	8.4	40.4	85
10 x 2 x 0.25	9.7	49.9	108
12 x 2 x 0.25	10.2	59.4	125
14 x 2 x 0.25	10.9	68.9	142
2 x 2 x 0.34	5.7	16.0	40
3 x 2 x 0.34	6.0	23.0	50
4 x 2 x 0.34	6.8	29.0	64
5 x 2 x 0.34	7.5	35.0	77
6 x 2 x 0.34	8.1	42.0	90
8 x 2 x 0.34	9.2	55.0	117
10 x 2 x 0.34	10.7	68.0	145
12 x 2 x 0.34	12.2	81.0	173
14 x 2 x 0.34	13.3	93.0	204
2 x 2 x 0.50	6.8	24.0	53
3 x 2 x 0.50	7.5	34.0	72
4 x 2 x 0.50	8.2	43.0	88
5 x 2 x 0.50	9.2	53.0	110
6 x 2 x 0.50	9.9	63.0	130
8 x 2 x 0.50	11.4	82.0	168
10 x 2 x 0.50	12.9	101.0	202
12 x 2 x 0.50	13.1	121.0	226
14 x 2 x 0.50	14.0	140.0	258
2 x 2 x 0.75	7.7	36.0	70
3 x 2 x 0.75	8.2	51.0	90
4 x 2 x 0.75	9.2	65.0	116
5 x 2 x 0.75	10.0	80.0	140
6 x 2 x 0.75	11.1	94.0	169
8 x 2 x 0.75	12.5	123.0	213
10 x 2 x 0.75	14.4	152.0	266
12 x 2 x 0.75	15.3	181.0	314
14 x 2 x 0.75	16.4	210.0	360
2 x 2 x 1.00	8.2	48.0	80
3 x 2 x 1.00	8.7	68.0	106
4 x 2 x 1.00	9.8	87.0	137
5 x 2 x 1.00	10.8	106.0	170
6 x 2 x 1.00	11.9	125.0	201
8 x 2 x 1.00	13.5	164.0	261
10 x 2 x 1.00	15.5	203.0	325
12 x 2 x 1.00	16.0	241.0	382
14 x 2 x 1.00	17.1	280.0	438

## LIY(st)CY-TP



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- DIN47100 Standardına uygun renklerde PVC izolasyon
- Çiftler halinde bükülü damarlar
- Oluşan çiftler katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bükülü bakır toprak iletkeni
- Al-Pes folyo ekran
- Kalaylı bakır tellerden örgü
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
1200 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

**Alev Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with colour coding according to DIN47100
- Cores twisted in pairs
- Pairs twisted in layers
- Polyester tape wrapping
- Stranded tinned copper drain wire
- Al-Pes Foil screen
- Tinned copper wire braiding
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
1200 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.14	148.0
0.25	79.9
0.34	53.0
0.50	39.0
0.75	26.0
1.00	19.5

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.14	5.4	16.0	39
3 x 2 x 0.14	5.7	21.0	47
4 x 2 x 0.14	6.2	26.0	56
5 x 2 x 0.14	6.8	29.0	64
6 x 2 x 0.14	7.3	34.0	73
8 x 2 x 0.14	7.8	39.0	85
10 x 2 x 0.14	8.9	55.0	113
12 x 2 x 0.14	9.5	61.0	130
14 x 2 x 0.14	10.1	71.0	148

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.25	6.1	21.0	48
3 x 2 x 0.25	6.4	30.0	61
4 x 2 x 0.25	7.0	37.0	73
5 x 2 x 0.25	7.7	42.0	84
6 x 2 x 0.25	8.5	57.0	108
8 x 2 x 0.25	9.1	67.0	126
10 x 2 x 0.25	10.4	82.0	157
12 x 2 x 0.25	10.9	93.0	175
14 x 2 x 0.25	11.6	103.0	195
2 x 2 x 0.34	6.4	28.0	56
3 x 2 x 0.34	6.7	39.0	67
4 x 2 x 0.34	7.5	55.0	84
5 x 2 x 0.34	8.2	63.0	97
6 x 2 x 0.34	8.8	74.0	114
8 x 2 x 0.34	9.9	88.0	144
10 x 2 x 0.34	11.2	116.0	169
12 x 2 x 0.34	13.2	131.0	253
14 x 2 x 0.34	14.1	146.0	282
2 x 2 x 0.50	7.7	36.0	76
3 x 2 x 0.50	8.2	50.0	92
4 x 2 x 0.50	8.9	70.0	112
5 x 2 x 0.50	9.9	81.0	136
6 x 2 x 0.50	10.6	96.0	157
8 x 2 x 0.50	12.1	116.0	201
10 x 2 x 0.50	13.6	152.0	239
12 x 2 x 0.50	13.9	173.0	303
14 x 2 x 0.50	14.8	202.0	347
2 x 2 x 0.75	8.4	59.0	93
3 x 2 x 0.75	8.9	78.0	114
4 x 2 x 0.75	9.9	97.0	142
5 x 2 x 0.75	10.7	113.0	167
6 x 2 x 0.75	11.6	143.0	194
8 x 2 x 0.75	13.2	174.0	250
10 x 2 x 0.75	15.2	215.0	316
12 x 2 x 0.75	16.1	246.0	409
14 x 2 x 0.75	17.2	279.0	460
2 x 2 x 1.00	8.9	71.0	1104
3 x 2 x 1.00	9.6	95.0	135
4 x 2 x 1.00	10.5	125.0	165
5 x 2 x 1.00	11.3	154.0	195
6 x 2 x 1.00	12.6	175.0	236
8 x 2 x 1.00	14.2	216.0	300
10 x 2 x 1.00	16.1	268.0	371
12 x 2 x 1.00	16.8	309.0	481
14 x 2 x 1.00	17.9	351.0	542

## LIY(st)Y-Pimf



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- PVC izolasyon, VDE 0293'e göre numara kodlu
- Çiftler halinde bükülü damarlar
- Çiftler üzerine bireysel Al-Pes folyo ekran
- Oluşan ekranlı çiftler katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bükülü bakır toprak iletkeni
- Al-Pes folyo
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
1200 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

**Alev Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with number coding according to VDE 0293
- Cores twisted in pairs
- Individual Al-Pes foil screen on pairs
- Screened pairs twisted in layers
- Polyester tape wrapping
- Stranded tinned copper drain wire
- Al-Pes foil
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
1200 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.50	39.0
0.75	26.0
1.00	19.5
1.50	13.3
2.50	7.98

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.50	7.1	22.1	63
3 x 2 x 0.50	7.8	32.1	86
4 x 2 x 0.50	8.5	43.0	107
5 x 2 x 0.50	9.4	53.0	132
8 x 2 x 0.50	11.7	82.0	202
10 x 2 x 0.50	13.1	101.0	244
12 x 2 x 0.50	13.1	121.0	226
18 x 2 x 0.50	15.9	179.0	330
20 x 2 x 0.50	16.6	198.0	362
2 x 2 x 0.75	8.0	37.0	87
3 x 2 x 0.75	8.5	54.0	114
4 x 2 x 0.75	9.4	71.0	147
5 x 2 x 0.75	10.3	80.0	177
8 x 2 x 0.75	12.8	123.0	271
10 x 2 x 0.75	14.5	152.0	335
12 x 2 x 0.75	15.3	181.0	314
18 x 2 x 0.75	18.3	268.0	450
20 x 2 x 0.75	19.2	297.0	495
2 x 2 x 1.00	8.5	46.0	100
3 x 2 x 1.00	9.0	66.3	131
4 x 2 x 1.00	10.0	87.0	169
5 x 2 x 1.00	11.1	106.0	209
8 x 2 x 1.00	13.8	164.0	320
10 x 2 x 1.00	15.7	203.0	397
12 x 2 x 1.00	16.0	241.0	382
18 x 2 x 1.00	19.2	357.0	550
20 x 2 x 1.00	20.1	396.0	605
2 x 2 x 1.50	10.2	68.0	142
3 x 2 x 1.50	10.9	99.2	190
4 x 2 x 1.50	12.1	130.0	244
5 x 2 x 1.50	13.3	162.0	295
8 x 2 x 1.50	16.7	255.5	461
10 x 2 x 1.50	19.2	320.3	575
12 x 2 x 1.50	19.8	358.0	643
18 x 2 x 1.50	23.5	571.5	971
20 x 2 x 1.50	25.0	635.3	1080
2 x 2 x 2.50	12.0	105.5	199
3 x 2 x 2.50	13.1	154.1	276
4 x 2 x 2.50	14.5	202.6	351
5 x 2 x 2.50	16.0	252.8	434
8 x 2 x 2.50	20.2	399.4	679
10 x 2 x 2.50	23.1	501.0	846
12 x 2 x 2.50	24.0	558.7	947
18 x 2 x 2.50	28.5	895.2	1140
20 x 2 x 2.50	30.3	995.1	1601

## LIY(st)CY-Pimf



### Kullanım Alanı

Elektronik kontrol sistemlerindeki bağlantılarda ses frekansı iletiminde, sinyal ve bilgi iletişim kablosu olarak kullanılır.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- PVC izolasyon, VDE 0293'e göre numara kodlu
- Çiftler halinde bükülü damarlar
- Çiftler üzerine bireysel Al-Pes folyo ekran
- Oluşan ekranlı çiftler katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bükülü bakır toprak iletkeni
- Al-Pes folyo
- Kalaylı bakır tellerden örgü
- PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda
- Referans standartlar: VDE 0814 ve VDE0812

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
1200 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

**Alev Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with number coding according to VDE 0293
- Cores twisted in pairs
- Individual Al-Pes foil screen on pairs
- Screened pairs twisted in layers
- Polyester tape wrapping
- Stranded tinned copper drain wire
- Al-Pes foil
- Tinned copper wire braiding
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum
- Reference Standards: Generally VDE0814 and VDE0812

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
1200 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.50	39.0
0.75	26.0
1.00	19.5
1.50	13.3
2.50	7.98

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 2 x 0.50	8.0	36.0	88
3 x 2 x 0.50	8.7	50.0	113
4 x 2 x 0.50	9.4	70.0	135
5 x 2 x 0.50	10.3	81.0	164
8 x 2 x 0.50	12.6	116.0	241
10 x 2 x 0.50	13.3	152.0	269
12 x 2 x 0.50	13.9	173.0	303
18 x 2 x 0.50	16.7	246.0	428
20 x 2 x 0.50	17.4	267.0	464
2 x 2 x 0.75	8.9	59.0	115
3 x 2 x 0.75	9.4	78.0	143
4 x 2 x 0.75	10.3	97.0	178
5 x 2 x 0.75	11.2	113.0	211
8 x 2 x 0.75	13.7	174.0	314
10 x 2 x 0.75	15.4	215.0	362
12 x 2 x 0.75	16.1	246.0	409
18 x 2 x 0.75	19.1	343.0	560
20 x 2 x 0.75	20.0	374.0	610
2 x 2 x 1.00	9.4	71.0	128
3 x 2 x 1.00	9.9	95.0	162
4 x 2 x 1.00	10.9	125.0	203
5 x 2 x 1.00	12.0	154.0	247
8 x 2 x 1.00	14.7	216.0	366
10 x 2 x 1.00	16.0	268.0	422
12 x 2 x 1.00	16.8	309.0	481
18 x 2 x 1.00	20.0	435.0	665
20 x 2 x 1.00	21.1	476.0	735
2 x 2 x 1.50	11.2	92.0	182
3 x 2 x 1.50	11.9	125.2	232
4 x 2 x 1.50	13.1	158.8	291
5 x 2 x 1.50	14.3	194.1	348
8 x 2 x 1.50	17.7	296.2	527
10 x 2 x 1.50	20.2	366.4	650
12 x 2 x 1.50	20.8	406.9	721
18 x 2 x 1.50	24.5	629.0	1063
20 x 2 x 1.50	26.0	697.4	1178
2 x 2 x 2.50	13.0	134.0	246
3 x 2 x 2.50	14.1	185.1	327
4 x 2 x 2.50	15.5	237.5	408
5 x 2 x 2.50	17.0	292.2	498
8 x 2 x 2.50	21.2	448.5	758
10 x 2 x 2.50	24.1	558.6	936
12 x 2 x 2.50	25.0	619.1	1042
18 x 2 x 2.50	29.5	965.0	1551
20 x 2 x 2.50	31.3	1070.3	1720

### YSLY-JZ (YY)



#### Kullanım Alanı

Bu tip kablolar ölçme, görüntüleme ve kontrol amacı ile makine üretiminde, enerji istasyonlarında, mühendislik projelerinde, ısıtma havalandırma ve diğer elektrik sistemlerinde, kuru nemli çevre şartlarında kullanıma uygundur.

#### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- PVC izolasyon, VDE 0293'e göre numara kodlu
- Damarlar katlar halinde bükülür
- PVC dış kılıf, RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda

#### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Test Gerilimi**  
2500 V

**İzolasyon Direnci**  
> 200 MΩ km

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**Aleve Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

#### Application

These cables are suitable for measuring, monitoring, and control cable for manufacturing of machinery, engineering and power stations, in heating or air conditioning and other electrical systems in dry damp interiors.

#### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with number coding according to VDE 0293
- Cores twisted in layers
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum

#### Electrical Data

**Operating Voltage**  
350 / 500 V

**Test Voltage**  
2500 V

**Insulation Resistance**  
> 200 MΩ km

**Temperature Range**  
-30°C ... + 70°C

**Min. Bending Radius**  
10 x Overall Diameter

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.50	39.00
0.75	26.00
1.00	19.50
1.50	13.30
2.50	7.98
4.00	4.95
6.00	3.30
10.00	1.91



Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.50	5.0	9.6	38
3 x 0.50	5.3	14.4	45
4 x 0.50	5.8	19.2	56
5 x 0.50	6.4	24.0	70
6 x 0.50	7.2	28.8	82
7 x 0.50	7.2	33.6	89
8 x 0.50	8.2	38.4	115
9 x 0.50	8.9	43.2	132
10 x 0.50	9.2	48.0	139
12 x 0.50	9.5	57.6	154
18 x 0.50	11.2	86.4	220
20 x 0.50	12.0	96.0	250
21 x 0.50	12.0	100.8	255
25 x 0.50	13.4	120.0	310
34 x 0.50	15.4	163.2	414
2 x 0.75	5.4	14.4	45
3 x 0.75	5.7	21.6	54
4 x 0.75	6.4	28.8	69
5 x 0.75	7.0	36.0	86
6 x 0.75	7.9	43.2	102
7 x 0.75	7.9	50.4	110
8 x 0.75	8.9	57.6	139
9 x 0.75	9.7	64.8	162
10 x 0.75	10.1	72.0	172
12 x 0.75	10.5	86.4	192
18 x 0.75	12.4	129.6	275
20 x 0.75	13.2	144.0	310
21 x 0.75	13.2	151.2	315
25 x 0.75	14.6	180.0	380
34 x 0.75	17.0	244.8	517
2 x 1.00	5.7	19.2	53
3 x 1.00	6.0	28.8	63
4 x 1.00	6.7	38.4	82
5 x 1.00	7.4	48.0	100
6 x 1.00	8.3	57.6	119
7 x 1.00	8.3	67.2	129
8 x 1.00	9.4	76.8	163
9 x 1.00	10.2	86.4	189
10 x 1.00	10.6	96.0	200
12 x 1.00	10.9	115.2	221
18 x 1.00	12.9	172.8	319
20 x 1.00	13.8	192.0	362
21 x 1.00	13.8	201.6	369
25 x 1.00	15.4	240.0	450
34 x 1.00	17.9	326.4	610

**YSLY-JZ (YY)**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 1.50	6.4	28.8	65
3 x 1.50	6.8	43.2	85
4 x 1.50	7.5	57.6	106
5 x 1.50	8.5	72.0	138
6 x 1.50	9.3	86.4	157
7 x 1.50	9.3	100.8	170
8 x 1.50	10.5	115.2	213
9 x 1.50	11.4	129.6	247
10 x 1.50	12.0	144.0	268
12 x 1.50	12.4	172.8	299
18 x 1.50	14.6	259.2	427
20 x 1.50	15.6	288.0	484
21 x 1.50	15.6	302.4	494
25 x 1.50	17.4	360.0	603
34 x 1.50	20.2	489.6	815
2 x 2.50	7.7	48.0	103
3 x 2.50	8.6	72.0	138
4 x 2.50	9.4	96.0	169
5 x 2.50	10.4	120.0	211
6 x 2.50	11.5	144.0	250
7 x 2.50	11.5	168.0	270
8 x 2.50	13.1	192.0	336
9 x 2.50	14.3	216.0	392
10 x 2.50	15.0	240.0	426
12 x 2.50	15.3	288.0	470
18 x 2.50	18.2	432.0	683
20 x 2.50	19.6	480.0	780
21 x 2.50	19.6	504.0	797
25 x 2.50	21.9	600.0	975
34 x 2.50	25.6	816.0	1329
3 x 4.00	10.3	115.2	204
4 x 4.00	11.4	153.6	256
5 x 4.00	12.7	192.0	322
3 x 6.00	11.8	172.8	282
4 x 6.00	13.2	230.4	362
5 x 6.00	14.7	288.0	452
3 x 10.00	15.2	288.0	477
4 x 10.00	17.6	384.0	641

## YSLCY-JZ (CY)



### Kullanım Alanı

Bu tip kablolar ölçme, görüntüleme ve kontrol amacı ile makine üretiminde, enerji istasyonlarında, mühendislik projelerinde, ısıtma havalandırma ve diğer elektrik sistemlerinde, kuru nemli çevre şartlarında kullanıma uygundur. Bu kablolarda bulunan kalaylı bakır ekran, dış ortamdaki sinyallere karşı koruma sağlar.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- PVC izolasyon, VDE 0293'e göre numara kodlu
- Damarlar katlar halinde bükülür
- Sarmal polyester bant
- Kalaylı bakır tellerden örgü
- PVC dış kılıf, RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Test Gerilimi**  
2500 V

**İzolasyon Direnci**  
> 200 MΩ km

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**Aleve Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

These cables are suitable for measuring, monitoring, and control cable for manufacturing of machinery, engineering and power stations, in heating or air conditioning and other electrical systems in dry damp interiors. These cables with copper screening are ideally suitable for interference free data and signal transmission in measuring and control technology.

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with number coding according to VDE 0293
- Cores twisted in layers
- Polyester tape wrapping
- Tinned copper wire braiding
- PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Test Voltage**  
2500 V

**Insulation Resistance**  
> 200 MΩ km

**Temperature Range**  
-30°C ... + 70°C

**Min. Bending Radius**  
10 x Overall Diameter

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.50	39.00
0.75	26.00
1.00	19.50
1.50	13.30
2.50	7.98
4.00	4.95
6.00	3.30
10.00	1.91

**YSLCY-JZ (CY)**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.50	5.7	22.5	48
3 x 0.50	6.0	28.2	56
4 x 0.50	6.4	35.0	68
5 x 0.50	7.1	41.3	82
6 x 0.50	7.7	48.0	94
7 x 0.50	7.7	52.8	103
8 x 0.50	8.7	60.0	120
9 x 0.50	9.6	67.4	137
10 x 0.50	9.9	72.9	145
12 x 0.50	10.2	84.1	163
14 x 0.50	10.7	95.6	183
18 x 0.50	12.1	127.9	233
20 x 0.50	12.7	140.3	256
21 x 0.50	12.8	144.4	270
25 x 0.50	14.2	168.9	312
2 x 0.75	6.1	28.2	54
3 x 0.75	6.4	37.4	64
4 x 0.75	6.9	46.2	79
5 x 0.75	7.7	55.2	99
6 x 0.75	8.3	67.2	110
7 x 0.75	8.3	74.4	119
8 x 0.75	9.6	83.6	148
9 x 0.75	10.3	91.8	162
10 x 0.75	10.7	100.4	173
12 x 0.75	11.2	123.8	200
14 x 0.75	11.7	138.8	224
18 x 0.75	13.3	171.6	287
20 x 0.75	14.0	190.0	315
21 x 0.75	14.1	214.0	325
25 x 0.75	15.6	242.0	383
2 x 1.00	6.3	35.0	59
3 x 1.00	6.8	46.0	76
4 x 1.00	7.4	59.4	92
5 x 1.00	7.9	68.0	110
6 x 1.00	8.8	87.2	129
7 x 1.00	8.8	95.2	140
8 x 1.00	10.0	105.8	167
9 x 1.00	10.9	117.4	189
10 x 1.00	11.3	132.0	202
12 x 1.00	11.6	153.2	229
14 x 1.00	12.4	175.4	265
18 x 1.00	13.8	226.8	330
20 x 1.00	14.8	243.3	370
21 x 1.00	14.8	257.4	380
25 x 1.00	16.3	314.0	447

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 1.50	7.1	46.4	77
3 x 1.50	7.5	64.2	94
4 x 1.50	8.1	80.6	115
5 x 1.50	8.8	100.0	140
6 x 1.50	9.9	117.6	167
7 x 1.50	9.9	132.7	183
8 x 1.50	11.2	152.6	218
9 x 1.50	12.2	171.3	245
10 x 1.50	12.7	184.6	265
12 x 1.50	13.1	213.0	302
14 x 1.50	13.9	239.0	346
18 x 1.50	15.5	313.7	434
20 x 1.50	16.5	361.5	485
21 x 1.50	16.6	375.9	502
25 x 1.50	18.2	443.4	555
2 x 2.50	8.4	78.0	108
3 x 2.50	9.1	106.2	140
4 x 2.50	9.9	127.4	173
5 x 2.50	11.9	153.7	215
6 x 2.50	12.0	195.0	253
7 x 2.50	12.0	204.8	277
8 x 2.50	13.6	236.4	328
9 x 2.50	14.9	259.0	370
10 x 2.50	15.5	284.0	401
12 x 2.50	16.0	340.0	461
14 x 2.50	17.0	390.0	532
18 x 2.50	19.1	510.0	676
20 x 2.50	20.4	559.5	756
21 x 2.50	20.5	582.8	783
25 x 2.50	22.7	688.5	926
3 x 4.00	11.9	146.2	205
4 x 4.00	12.1	192.7	262
5 x 4.00	13.4	234.0	337
3 x 6.00	12.4	215.0	279
4 x 6.00	13.7	285.0	356
5 x 6.00	15.2	350.0	440
3 x 10.00	16.1	350.0	469
4 x 10.00	17.7	455.0	596

## YSLYSY-JZ (SY)



### Kullanım Alanı

Bu tip kablolar ölçme, görüntüleme ve kontrol amacı ile makine üretiminde, enerji istasyonlarında, mühendislik projelerinde, ısıtma havalandırma ve diğer elektrik sistemlerinde, kuru nemli çevre şartlarında kullanıma uygundur.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- PVC izolasyon, VDE 0293'e göre numara kodlu
- Damarlar katlar halinde bükülür
- PVC dolgu
- Galvenizli çelik tellerden örgü
- Şeffaf PVC dış kılıf
- Paketleme: 500m veya 1000m tahta makaralarda

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
2500 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

### Application

*These cables are suitable for measuring, monitoring, and control cable for manufacturing of machinery, engineering and power stations, in heating or air conditioning and other electrical systems in dry damp interiors.*

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with number coding according to VDE 0293
- Cores twisted in layers
- PVC bedding
- Galvanized steel wire braiding
- Transparent PVC outer sheath
- Packing in 500m or 1000m drum

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
2500 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.50	39.00
0.75	26.00
1.00	19.50
1.50	13.30
2.50	7.98
4.00	4.95
6.00	3.30
10.00	1.91

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.50	7.5	9.6	84
3 x 0.50	7.9	14.4	94
4 x 0.50	8.5	19.2	109
5 x 0.50	9.3	24.0	131
7 x 0.50	9.8	33.6	152
12 x 0.50	12.7	57.6	250
18 x 0.50	14.6	86.4	336
2 x 0.75	8.0	14.4	94
3 x 0.75	8.3	21.6	105
4 x 0.75	9.3	28.8	130
5 x 0.75	9.8	36.0	152
7 x 0.75	10.6	50.4	178
12 x 0.75	13.7	86.4	294
18 x 0.75	15.8	129.6	399
2 x 1.00	8.2	19.2	100
3 x 1.00	8.5	28.8	114
4 x 1.00	9.5	38.4	145
5 x 1.00	10.1	48.0	167
7 x 1.00	11.1	67.2	203
12 x 1.00	14.1	115.2	328
18 x 1.00	16.5	172.8	456
2 x 1.50	8.8	28.8	120
3 x 1.50	9.6	43.2	150
4 x 1.50	10.4	57.6	177
5 x 1.50	11.1	72.0	206
7 x 1.50	12.2	100.8	256
12 x 1.50	15.8	172.8	425
18 x 1.50	18.4	259.2	588
2 x 2.50	10.5	48.0	174
3 x 2.50	11.2	72.0	207
4 x 2.50	12.6	96.0	265
5 x 2.50	13.6	120.0	315
7 x 2.50	14.7	168.0	378
12 x 2.50	19.3	288.0	647
18 x 2.50	23.0	432.0	927
3 x 4.00	13.4	115.2	302
4 x 4.00	14.8	153.6	377
5 x 4.00	16.1	192.0	453
3 x 6.00	14.9	172.8	393
4 x 6.00	16.7	230.4	498
5 x 6.00	18.1	288.0	598

## H05VV5-F (NYSLYÖ-JZ)



### Kullanım Alanı

Bu tip kablolar ölçme, görüntüleme ve kontrol amacı ile makine üretiminde, enerji istasyonlarında, mühendislik projelerinde, ısıtma havalandırma ve diğer elektrik sistemlerinde, kuru nemli ve yağlı şartlarda, özellikle endüstriyel çevre şartlarında kullanıma uygundur.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- PVC izolasyon, VDE 0293'e göre numara kodlu
- Damarlar katlar halinde bükülür
- Yağa dayanıklı PVC dış kılıf , RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
2500 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

**Aleve Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

*These cables are suitable for measuring, monitoring, and control cable for manufacturing of machinery, engineering and power stations, in heating or air conditioning and other electrical systems in dry damp and oily interiors, especially under industrial environmental conditions.*

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with number coding according to VDE 0293
- Cores twisted in layers
- Oil resistant PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
2500 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.50	39.00
0.75	26.00
1.00	19.50
1.50	13.30
2.50	7.98
4.00	4.95
6.00	3.30
10.00	1.91



**H05VV5-F (NYSLYÖ-JZ)**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.50	5.6	9.6	45
3 x 0.50	5.9	14.4	52
4 x 0.50	6.7	19.2	67
5 x 0.50	7.3	24.0	82
6 x 0.50	8.1	28.8	100
7 x 0.50	8.1	33.6	106
10 x 0.50	10.6	48.0	167
12 x 0.50	10.9	57.6	182
18 x 0.50	12.9	86.4	224
21 x 0.50	13.8	100.8	262
25 x 0.50	15.4	120.0	319
27 x 0.50	15.7	129.6	340
32 x 0.50	17.1	153.6	400
35 x 0.50	17.9	168.0	440
40 x 0.50	18.6	192.0	491
2 x 0.75	6.2	14.4	56
3 x 0.75	6.6	21.6	67
4 x 0.75	7.2	28.8	82
5 x 0.75	8.0	36.0	103
6 x 0.75	8.7	43.2	122
7 x 0.75	8.9	50.4	129
10 x 0.75	11.4	72.0	204
12 x 0.75	11.8	86.4	225
18 x 0.75	14.1	129.6	285
21 x 0.75	15.1	151.2	332
25 x 0.75	16.9	180.0	400
27 x 0.75	18.0	194.4	422
32 x 0.75	19.5	230.4	537
35 x 0.75	20.2	252.0	580
40 x 0.75	21.2	288.0	658
2 x 1.00	6.5	19.2	64
3 x 1.00	6.9	28.8	77
4 x 1.00	7.5	38.4	93
5 x 1.00	8.4	48.0	119
6 x 1.00	9.4	57.6	146
7 x 1.00	9.4	67.2	151
10 x 1.00	12.2	96.0	243
12 x 1.00	12.6	115.2	268
18 x 1.00	14.9	172.8	335
21 x 1.00	16.1	201.6	400
25 x 1.00	18.2	240.0	505
27 x 1.00	18.3	259.2	534
32 x 1.00	20.2	307.2	629
35 x 1.00	21.1	336.0	690
40 x 1.00	22.1	384.0	782

**H05VV5-F (NYSLYÖ-JZ)**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 1.50	7.5	28.8	87
3 x 1.50	8.2	43.2	110
4 x 1.50	8.9	57.6	131
5 x 1.50	10.0	72.0	170
6 x 1.50	11.0	86.4	206
7 x 1.50	11.0	100.8	220
10 x 1.50	14.4	144.0	345
12 x 1.50	14.9	172.8	382
18 x 1.50	17.8	259.2	483
21 x 1.50	19.2	302.4	572
25 x 1.50	21.4	360.0	684
27 x 1.50	22.3	388.8	724
32 x 1.50	24.1	460.8	903
35 x 1.50	25.2	504.0	989
40 x 1.50	26.4	576.0	1120
2 x 2.50	8.9	48.0	126
3 x 2.50	9.7	72.0	160
4 x 2.50	10.8	96.0	202
5 x 2.50	11.8	120.0	246
6 x 2.50	13.3	144.0	300
7 x 2.50	13.3	168.0	320
10 x 2.50	17.2	240.0	510
12 x 2.50	17.8	288.0	567
18 x 2.50	21.4	432.0	730
21 x 2.50	23.0	504.0	860
25 x 2.50	25.4	600.0	1115
27 x 2.50	26.1	648.0	1085
32 x 2.50	29.6	768.0	1411
35 x 2.50	30.9	840.0	1542
40 x 2.50	32.3	960.0	1744
3 x 4.00	11.0	115.2	220
4 x 4.00	12.2	153.6	280
5 x 4.00	13.5	192.0	350
3 x 6.00	12.4	172.8	300
4 x 6.00	13.8	230.4	380
5 x 6.00	15.3	288.0	475
3 x 10.00	16.0	288.0	505
4 x 10.00	17.7	384.0	640

## H05VVC4V5-K (NYSLYCYÖ-JZ)



### Kullanım Alanı

Bu tip kablolar ölçme, görüntüleme ve kontrol amacı ile makine üretiminde, enerji istasyonlarında, mühendislik projelerinde, ısıtma havalandırma ve diğer elektrik sistemlerinde, kuru nemli ve yağlı şartlarda, özellikle endüstriyel çevre şartlarında kullanıma uygundur. Bu kablolarda bulunan kalaylı bakır ekran, dış ortamdaki sinyallere karşı koruma sağlar.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- PVC izolasyon, VDE 0293'e göre numara kodlu
- Damarlar katlar halinde bükülür
- PVC dolgu
- Kalaylı bakır tellerden örgü
- Yağa dayanıklı PVC dış kılıf, RAL7001 Gri renkli
- Paketleme: 500m veya 1000m tahta makaralarda

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
2500 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

**Aleve Dayanıklılık**  
IEC 60332-1 Standardına göre alev geciktirici

### Application

*These cables are suitable for measuring, monitoring, and control cable for manufacturing of machinery, engineering and power stations, in heating or air conditioning and other electrical systems in dry damp and oily interiors, especially under industrial environmental conditions. These cables with copper screening are ideally suitable for interference free data and signal transmission in measuring and control technology.*

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with number coding according to VDE 0293
- Cores twisted in layers
- PVC bedding
- Tinned copper wire braiding
- Oil resistant PVC outer sheath, RAL7001 Grey colour
- Packing in 500m or 1000m drum

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
2500 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

**Flame Behaviour**  
Flame retardant according to IEC 60332-1

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.50	39.00
0.75	26.00
1.00	19.50
1.50	13.30
2.50	7.98
4.00	4.95
6.00	3.30
10.00	1.91

**H05VVC4V5-K (NYSLYCYÖ-JZ)**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.50	8.0	38	95
3 x 0.50	8.3	47	104
4 x 0.50	8.9	53	121
5 x 0.50	9.7	64	144
6 x 0.50	10.3	70	164
7 x 0.50	10.5	75	170
10 x 0.50	13.2	101	259
12 x 0.50	13.7	111	288
14 x 0.50	14.2	123	314
16 x 0.50	15.1	163	353
18 x 0.50	15.7	175	385
19 x 0.50	15.8	180	398
21 x 0.50	16.6	193	437
24 x 0.50	18.5	214	501
25 x 0.50	19.4	219	522
2 x 0.75	8.4	47	105
3 x 0.75	8.8	55	120
4 x 0.75	9.6	69	143
5 x 0.75	10.2	78	164
6 x 0.75	11.1	87	194
7 x 0.75	11.3	94	202
10 x 0.75	14.2	128	317
12 x 0.75	14.6	151	341
14 x 0.75	15.3	190	377
16 x 0.75	16.2	208	422
18 x 0.75	16.9	225	461
19 x 0.75	17.7	233	532
21 x 0.75	18.0	252	545
24 x 0.75	19.8	296	605
25 x 0.75	19.8	303	630
2 x 1.00	8.7	53	117
3 x 1.00	9.3	69	136
4 x 1.00	9.9	79	156
5 x 1.00	10.8	91	189
6 x 1.00	11.6	108	218
7 x 1.00	12.0	118	234
10 x 1.00	15.0	183	362
12 x 1.00	15.4	204	391
14 x 1.00	16.2	226	434
16 x 1.00	17.1	249	486
18 x 1.00	18.0	272	538
19 x 1.00	18.4	282	613
21 x 1.00	19.0	304	619
24 x 1.00	20.9	357	698
25 x 1.00	20.9	367	727

**H05VVC4V5-K (NYSLYCYÖ-JZ)**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 1.50	9.9	69	150
3 x 1.50	10.4	84	172
4 x 1.50	11.1	106	200
5 x 1.50	12.6	123	256
6 x 1.50	13.5	139	296
7 x 1.50	13.9	153	323
10 x 1.50	17.4	236	491
12 x 1.50	17.9	268	533
14 x 1.50	18.8	299	594
16 x 1.50	19.9	347	666
18 x 1.50	20.0	380	736
19 x 1.50	21.3	394	771
21 x 1.50	22.1	428	842
24 x 1.50	24.5	482	970
25 x 1.50	24.5	496	1011
2 x 2.50	11.3	97	200
3 x 2.50	11.9	122	232
4 x 2.50	13.2	149	290
5 x 2.50	14.6	182	362
6 x 2.50	15.9	232	426
7 x 2.50	16.1	256	448
10 x 2.50	20.2	360	682
12 x 2.50	20.8	410	745
14 x 2.50	21.9	462	834
16 x 2.50	23.5	516	956
18 x 2.50	24.5	570	1049
19 x 2.50	25.6	594	1200
21 x 2.50	25.9	647	1232
24 x 2.50	28.7	790	1380
25 x 2.50	28.7	814	1436
3 x 4.00	13.6	175	315
4 x 4.00	15.0	217	397
3 x 6.00	15.2	236	417
4 x 6.00	16.6	297	513
3 x 10.00	18.8	374	653
4 x 10.00	20.7	477	816

## YSLYCY-JZ



### Kullanım Alanı

Bu tip kablolar ölçme, görüntüleme ve kontrol amacı ile makine üretiminde, enerji istasyonlarında, mühendislik projelerinde, ısıtma havalandırma ve diğer elektrik sistemlerinde, kuru nemli çevre şartlarında kullanıma uygundur. Bu kablolarda bulunan kalaylı bakır ekran, dış ortamdaki sinyallere karşı koruma sağlar.

### Kablo Yapısı

- Çok telli bükülü elektrolitik tavlı bakır
- PVC izolasyon, VDE 0293'e göre numara kodlu
- Damarlar katlar halinde bükülür
- PVC dolgu
- Kalaylı bakır tellerden örgü
- Şeffaf PVC dış kılıf
- Paketleme: 500m veya 1000m tahta makaralarda

### Elektriksel Özellikler

**Çalışma Gerilimi**  
350 / 500 V

**Çalışma Sıcaklığı**  
-30°C ... + 70°C

**Test Gerilimi**  
2500 V

**Min. Bükülme Yarı Çapı**  
10 x Dış Çap

**İzolasyon Direnci**  
> 200 MΩ km

### Application

*These cables are suitable for measuring, monitoring, and control cable for manufacturing of machinery, engineering and power stations, in heating or air conditioning and other electrical systems in dry damp interiors. These cables with copper screening are ideally suitable for interference free data and signal transmission in measuring and control technology.*

### Cable Construction

- Class 5 annealed copper conductors according to IEC 60228
- PVC insulation, with number coding according to VDE 0293
- Cores twisted in layers
- PVC bedding
- Tinned copper wire braiding
- Transparent PVC outer sheath
- Packing in 500m or 1000m drum

### Electrical Data

**Operating Voltage**  
350 / 500 V

**Temperature Range**  
-30°C ... + 70°C

**Test Voltage**  
2500 V

**Min. Bending Radius**  
10 x Overall Diameter

**Insulation Resistance**  
> 200 MΩ km

İletken Çapı Cross Section (mm <sup>2</sup> )	Max. İletken Direnci (20°C) Max. Conductor Resistance (ohm/km)
0.50	39.00
0.75	26.00
1.00	19.50
1.50	13.30
2.50	7.98
4.00	4.95
6.00	3.30
10.00	1.91

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 0.50	7.1	37	77
3 x 0.50	7.6	45	91
4 x 0.50	8.2	20	106
5 x 0.50	9.0	30	129
6 x 0.50	8.6	37	128
7 x 0.50	9.5	72	146
10 x 0.50	10.7	96	187
12 x 0.50	12.5	103	251
14 x 0.50	12.8	117	234
16 x 0.50	13.4	154	281
18 x 0.50	14.6	166	355
19 x 0.50	12.8	170	309
21 x 0.50	13.8	180	338
24 x 0.50	15.1	201	381
25 x 0.50	15.1	206	388
2 x 0.75	7.7	46	91
3 x 0.75	8.0	53	101
4 x 0.75	9.0	67	127
5 x 0.75	9.5	75	146
6 x 0.75	9.7	83	158
7 x 0.75	9.7	91	173
10 x 0.75	12.3	123	240
12 x 0.75	13.5	145	297
14 x 0.75	13.9	181	325
16 x 0.75	14.1	198	353
18 x 0.75	15.8	215	421
19 x 0.75	15.8	222	399
21 x 0.75	16.3	240	429
24 x 0.75	17.1	280	499
25 x 0.75	17.1	288	509
2 x 1.00	7.9	51	97
3 x 1.00	8.2	66	111
4 x 1.00	9.2	77	139
5 x 1.00	9.8	88	163
6 x 1.00	10.8	104	182
7 x 1.00	10.8	114	198
10 x 1.00	12.9	175	299
12 x 1.00	13.9	195	332
14 x 1.00	14.0	217	368
16 x 1.00	14.8	239	408
18 x 1.00	16.5	261	481
19 x 1.00	16.5	270	455
21 x 1.00	17.4	292	498
24 x 1.00	18.1	342	587
25 x 1.00	18.1	352	600

**YSLYCY-JZ**

Damar sayısı x Nominal Kesit No. Of Cores x Cross Section (mm <sup>2</sup> )	Dış Çap Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Approx. Weight (kg/km)
2 x 1.50	8.5	67	118
3 x 1.50	9.3	82	143
4 x 1.50	10.1	103	172
5 x 1.50	10.6	119	199
6 x 1.50	12.0	135	250
7 x 1.50	12.0	149	259
10 x 1.50	15.3	228	400
12 x 1.50	15.8	258	448
14 x 1.50	16.6	289	499
16 x 1.50	17.3	334	561
18 x 1.50	18.4	367	615
19 x 1.50	18.5	381	648
21 x 1.50	19.6	414	710
24 x 1.50	21.5	466	805
25 x 1.50	21.5	480	824
2 x 2.50	10.2	93	170
3 x 2.50	10.7	118	203
4 x 2.50	12.4	144	267
5 x 2.50	13.4	176	319
6 x 2.50	14.0	213	366
7 x 2.50	14.5	247	382
10 x 2.50	17.7	344	564
12 x 2.50	19.3	395	674
14 x 2.50	19.4	446	721
16 x 2.50	20.5	498	805
18 x 2.50	23.0	550	870
19 x 2.50	23.0	574	910
21 x 2.50	24.6	626	997
24 x 2.50	25.5	760	1211
25 x 2.50	25.5	783	1241
3 x 4.00	12.8	181	294
4 x 4.00	14.4	239	371
3 x 6.00	14.2	254	394
4 x 6.00	15.5	315	483
3 x 10.00	18.0	386	610
4 x 10.00	19.7	504	772



**VDE Tanımlamalarında Kullanılan Kısaltmalar**

<b>A</b>	Dış tesisat kablosu
<b>B</b>	Zırh
<b>Bd</b>	Grup şeklinde sıralanmış
<b>C</b>	Bakır tellerden örgü ekran
<b>f</b>	Süper ince telli bükülmüş iletken
<b>F</b>	Su geçmesini önleyen jelly- dolgu
<b>H</b>	Halojensiz, alev geciktiren yalıtım
<b>J-</b>	Tesisat kablosu
<b>JE-</b>	Endüstriyel elektronik tesisat kablosu
<b>-J</b>	Toprak koruma damarlı kablo
<b>-JZ</b>	Toprak koruma damarlı numaralı kablo
<b>(L)</b>	Alüminyum folyo ekran
<b>Lg</b>	Katlar şeklinde bükülmüş kablo
<b>LI</b>	Çok telli bükülmüş iletken
<b>N</b>	Ağır şartlara dayanıklı kablo
<b>-O</b>	Toprak koruma damarsız kablo
<b>-OZ</b>	Toprak koruma damarsız numaralı kablo
<b>Pimf</b>	Bireysel al-pes ekranlı çift
<b>Q</b>	Çelik tellerden örgü
<b>(St)</b>	Al-Pes band ekran
<b>2X</b>	Çapraz bağlı polietilen yalıtım
<b>Y</b>	PVC
<b>2Y</b>	PE(polietilen)
<b>02Y</b>	Köpüklü polietilen
<b>02YS</b>	Foam-Skin polietilen
<b>4Y</b>	Polyamid ( nylon)
<b>5Y</b>	Ptfe (teflon)
<b>6Y</b>	Fep flourethilenpropylene
<b>7Y</b>	Etf tetraflourethylene
<b>9Y</b>	PP (polypropylene)
<b>11Y</b>	Pur polyurethane
<b>(Z)</b>	Yüksek mukavemetli çelik tel örgü

**DIN-47100 Standartlarına Uygun İzoleli Damar Renkleri**

Damar No	İzole/Kod Rengi	Damar No	İzole/Kod Rengi
1	Beyaz	21	Beyaz/Mavi
2	Kahve	22	Kahve/Mavi
3	Yeşil	23	Beyaz/Kırmızı
4	Sarı	24	Kahve/Kırmızı
5	Gri	25	Beyaz/Siyah
6	Pembe	26	Kahve/Siyah
7	Mavi	27	Gri/Yeşil
8	Kırmızı	28	Sarı/Gri
9	Siyah	29	Pembe/Yeşil
10	Menekşe	30	Sarı/Pembe
11	Gri/Pembe	31	Yeşil/Mavi
12	Kırmızı/Mavi	32	Sarı/Mavi
13	Beyaz/Yeşil	33	Yeşil/Mavi
14	Kahve/Yeşil	34	Sarı/Kırmızı
15	Beyaz/Sarı	35	Yeşil/Siyah
16	Sarı/Kahve	36	Sarı/Siyah
17	Beyaz/Gri	37	Gri/Mavi
18	Gri/Kahve	38	Pembe/Mavi
19	Beyaz/Pembe	39	Gri/Kırmızı
20	Pembe/Kahve	40	Pembe/Kırmızı

**Abbreviations of VDE Identification**

<b>A</b>	Outdoor cable
<b>B</b>	Armouring
<b>BD</b>	Unit type lay-up
<b>C</b>	Copper wire braided screen
<b>f</b>	Stranded conductor with super fine wires
<b>F</b>	Jelly-filling for water penetration
<b>H</b>	Halogen-Free, flame-retardant material
<b>J-</b>	Installation cable
<b>JE-</b>	Installation cable for industrial electronic
<b>-J</b>	Earth cored cable
<b>-JZ</b>	Numbered cable with earth conductor
<b>(L)</b>	Aluminium foil shield
<b>Lg</b>	Cable, stranded with layer
<b>LI</b>	Multi-Wire stranded conductor
<b>N</b>	Cable for use at heavy operation conditions
<b>-O</b>	Cable, without earth-core
<b>-OZ</b>	Numbered cable, without earth core
<b>Pimf</b>	Individual Al-Pes tape screened pair
<b>Q</b>	Steel-Wires braiding
<b>(ST)</b>	Al-Pes tape screen
<b>2x</b>	Cross-Linked Polyethylene Insulation
<b>Y</b>	PVC
<b>2Y</b>	PE
<b>02Y</b>	Foam-Polyethylene
<b>02YS</b>	Foam-Skin Polyethylene
<b>4Y</b>	Polyamide (nylon)
<b>5Y</b>	Ptfe (Teflon)
<b>6Y</b>	Fep Flourethilenpropylene
<b>7Y</b>	Etf Tetraflourethylene
<b>9Y</b>	PP (Polypropylene)
<b>11Y</b>	Pure Polyurethane
<b>(Z)</b>	High-Strength steel wire braiding

**The Colours Of Insulated Core According To DIN-47100**

Damar No	İzole/Kod Rengi	Damar No	İzole/Kod Rengi
1	White	21	White/Blue
2	Brown	22	Brown/Blue
3	Green	23	White/Red
4	Yellow	24	Brown/Red
5	Grey	25	White/Black
6	Pink	26	Brown/Black
7	Blue	27	Grey/Green
8	Red	28	Yellow/Pink
9	Black	29	Pink/Green
10	Violet	30	Yellow/Pink
11	GreyPink	31	Green/Blue
12	Red/Blue	32	Yellow/Blue
13	White/Green	33	Green/Red
14	Brown/Green	34	Yellow/Red
15	White/Yellow	35	Grey/Blue
16	Yellow/Brown	36	Yellow/Brown
17	White/Grey	37	Grey/Blue
18	Grey/Brown	38	Pink/Blue
19	White/Pink	39	Grey/Red
20	Pink/Brown	40	Pink/Brown

## Kumanda Kabloları Tanıtım Kodları Designation Codes For Control Cables

### Kablo Tipi / Basic Cable Type

J-	Tesisat kablosu	Installation cable
JE	Endüstriyel elektronik T.K.	I.C. For industrial electronic
LI	Çok telli fleksibl kablo	Flexible conductor

### İzolasyon Tipi / Type Of Insulation

Y	PVC (Polyvinylchloride)	PVC (Polyvinylchloride)
2Y	PE (Polyethylene)	PE (Polyethylene)
02Y	Köpüklü PE	Foam PE
02YS	Faom - Skin	Foam - Skin
H	Holajensiz alev geciktiren	Halogan-Free, Flame Retardant

### Ekran Tipi / Type Of Screen

C	Bakır tellerden örgü ekran	Copper Wire Braid Screen
(St)	Al-Pes band ekran	Al-Pes Tape Screen

### Kılıf / Sheath

Y	PVC (Polyvinylchloride)	PVC (Polyvinylchloride)
2Y	PE (Polyethylene)	PE (Polyethylene)
H	Holajensiz alev geciktiren	Halogan-Free, Flame Retardant

### İlave Bilgiler / Additional Information

Tp	İkili Bükülmüş (Özel Tanıtım)	Pair Twisted (Special Identification)
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### Damar veya Çift Sayısı / Number Of Core Or Pair

### Alt Birim Elemanı / Sub-Unit Element

x2	Tekli Damar ikili	Single Core Pair
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### İletken Çapı (mm) veya Kesiti (mm<sup>2</sup>) / Conductor Diameter (mm<sup>2</sup>) Or Cross Section (mm)

### Büküm Elemanlarının Tipi / Type Of Strading Element

STT III	Yıldız Dörtlü	Star Quad
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### Büküm Düzeni/ Strading Layout

Lg	Katlar şeklinde bükülmüş	Stranted In Layers
Bd	Gruplar şeklinde bükülmüş	Unit Stranded