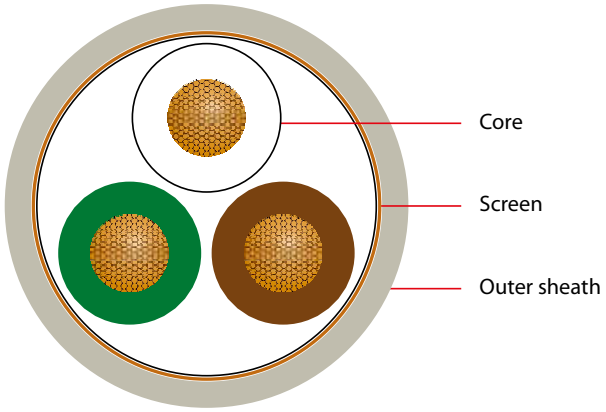
LIYCY

in resemblance to DIN VDE 0812



APPLICATION

Screened connecting and junction cable for measurement and control technology. Not approved for power and underground installation.

CONSTRUCTION

Conductor: copper strand. bare
Core insulation: PVC
Core identification: acc. to DIN 47100
Core stranding: cores twisted to layers
Lapping: plastic foil
Screen: tinned copper wire braid; optical coverage approx. 80 %
Outer sheath: PVC; colour: grey

ELECTRICAL CHARACTERISTICS

Cross-section	Bunched conductor	Conductor resist.
0.14 mm²	18 x 0.10 mm	max. 148 Ω/km
0.25 mm²	14 x 0.15 mm	max. 79.9 Ω/km
0.34 mm²	7 x 0.25 mm	max. 57.5 Ω/km
0.50 mm²	16 x 0.20 mm	max. 38.9 Ω/km
0.75 mm²	24 x 0.20 mm	max. 26.0 Ω/km
1.00 mm²	32 x 0.20 mm	max. 19.5 Ω/km
1.50 mm²	30 x 0.25 mm	max. 13.3 Ω/km

Insulation resistance min.	20 MΩ x km
Peak operating voltage 0.14 mm²	350 V
Peak operating voltage rest	500 V
Test voltage 0.14 mm²	800 V
Test voltage rest	1200 V

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	-5°C to +50°C
Temperature range stationary	-30°C to +70°C

Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km
2 x 0.14	0.6	3.7	21	12.6
3 x 0.14	0.6	3.9	25	14.1
4 x 0.14	0.6	4.1	29	15.9
5 x 0.14	0.6	4.4	35	19.5
6 x 0.14	0.6	4.7	38	22
7 x 0.14	0.6	4.7	41	24
8 x 0.14	0.6	5.0	45	26
9 x 0.14	0.7	5.5	49	28
10 x 0.14	0.7	5.9	56	29
12 x 0.14	0.7	6.1	61	32
14 x 0.14	0.7	6.3	67	35
16 x 0.14	0.8	6.8	81	49
18 x 0.14	0.8	7.1	92	54
20 x 0.14	0.8	7.4	104	58
21 x 0.14	0.8	7.4	106	60
24 x 0.14	0.8	8.1	118	74
25 x 0.14	0.8	8.3	120	78
27 x 0.14	0.8	8.3	123	85
30 x 0.14	0.8	8.5	135	98
32 x 0.14	0.8	8.8	146	108
36 x 0.14	0.8	9.1	157	117
40 x 0.14	0.8	9.4	166	126
42 x 0.14	1.0	10.7	178	132
44 x 0.14	1.0	10.7	195	138
48 x 0.14	1.0	10.9	206	145
52 x 0.14	1.0	11.1	212	155
56 x 0.14	1.0	11.4	220	166
61 x 0.14	1.0	11.7	250	176
2 x 0.25	0.6	4.3	20	15
3 x 0.25	0.6	4.5	35	18
4 x 0.25	0.6	4.8	44	22
5 x 0.25	0.6	5.2	50	25
6 x 0.25	0.7	5.8	58	30
7 x 0.25	0.7	5.8	60	32
8 x 0.25	0.7	6.2	67	35
10 x 0.25	0.8	7.3	81	42
12 x 0.25	0.8	7.5	91	50
14 x 0.25	0.8	7.8	116	64
16 x 0.25	0.8	8.2	133	71
18 x 0.25	0.8	8.6	137	80
20 x 0.25	0.8	9.0	153	100
21 x 0.25	0.8	9.0	171	105
24 x 0.25	1.0	10.5	158	115
25 x 0.25	1.0	10.7	190	117

T.K. Kabel oHG · Geschwister-Scholl-Straße 11 · 71384 Weinstadt
Phone +49 (0) 7151/60 68 70 · Fax +49 (0) 7151/60 91 00 · info@tk-kabel.de · www.tk-kabel.de

Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km
LIYCY				
27 x 0.25	1.0	10.7	200	120
30 x 0.25	1.0	11.0	214	132
32 x 0.25	1.0	11.4	227	138
36 x 0.25	1.0	11.8	250	152
40 x 0.25	1.0	12.2	289	164
42 x 0.25	1.0	12.7	295	172
44 x 0.25	1.0	13.1	300	180
48 x 0.25	1.0	13.3	310	209
52 x 0.25	1.0	13.6	340	234
56 x 0.25	1.0	14.0	360	259
61 x 0.25	1.2	14.8	385	287
2 x 0.34	0.6	4.7	33	17
3 x 0.34	0.6	4.9	41	21
4 x 0.34	0.6	5.5	48	25
5 x 0.34	0.7	6.0	58	30
6 x 0.34	0.7	6.4	64	36
7 x 0.34	0.7	6.4	70	42
8 x 0.34	0.8	7.1	93	45
10 x 0.34	0.8	8.1	110	63
12 x 0.34	0.8	8.3	120	70
14 x 0.34	0.8	8.7	140	78
16 x 0.34	0.8	9.2	147	87
18 x 0.34	1.0	10.2	172	108
20 x 0.34	1.0	10.7	189	124
21 x 0.34	1.0	10.7	196	127
24 x 0.34	1.0	11.7	229	140
27 x 0.34	1.0	11.9	235	151
30 x 0.34	1.0	12.3	260	162
32 x 0.34	1.0	12.8	275	171
36 x 0.34	1.0	13.2	295	188
40 x 0.34	1.0	13.7	330	208
2 x 0.5	0.6	5.2	42	29
3 x 0.5	0.7	5.7	55	35
4 x 0.5	0.7	6.1	68	45
5 x 0.5	0.8	6.8	82	50
6 x 0.5	0.8	7.4	104	59
7 x 0.5	0.8	7.4	109	68
8 x 0.5	0.8	7.9	123	75
10 x 0.5	0.8	9.1	135	93
12 x 0.5	0.8	9.4	160	107
16 x 0.5	1.0	10.9	210	129

Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km
LIYCY				
20 x 0.5	1.0	12.0	270	165
24 x 0.5	1.0	13.2	320	190
25 x 0.5	1.0	13.5	335	211
2 x 0.75	0.7	5.8	50	35
3 x 0.75	0.7	6.1	71	46
4 x 0.75	0.8	6.8	78	56
5 x 0.75	0.8	7.4	100	70
6 x 0.75	0.8	8.0	116	85
7 x 0.75	0.8	8.0	131	90
8 x 0.75	0.8	8.5	151	110
10 x 0.75	1.0	10.5	173	131
12 x 0.75	1.0	10.8	218	148
18 x 0.75	1.0	12.5	300	205
20 x 0.75	1.0	13.0	331	220
24 x 0.75	1.2	14.8	376	250
27 x 0.75	1.2	15.1	448	277
30 x 0.75	1.2	15.6	486	315
2 x 1.0	0.7	6.1	74	45
3 x 1.0	0.7	6.4	89	54
4 x 1.0	0.8	7.2	107	69
5 x 1.0	0.8	7.8	132	82
7 x 1.0	0.8	8.4	158	106
8 x 1.0	0.8	9.1	179	118
10 x 1.0	1.0	11.1	215	145
12 x 1.0	1.0	11.4	254	166
16 x 1.0	1.0	12.6	330	220
18 x 1.0	1.0	13.2	366	249
20 x 1.0	1.0	13.8	399	269
25 x 1.0	1.2	16.2	478	331
2 x 1.5	0.8	6.9	86	56
3 x 1.5	0.8	7.3	107	74
4 x 1.5	0.8	7.9	129	91
5 x 1.5	0.8	8.6	150	105
7 x 1.5	0.8	9.3	192	141
8 x 1.5	1.0	10.6	219	157
10 x 1.5	1.0	12.3	274	195
12 x 1.5	1.0	12.7	315	228
18 x 1.5	1.2	15.1	450	338
20 x 1.5	1.2	15.8	500	375
25 x 1.5	1.2	18.1	618	459

T.K. Kabel oHG · Geschwister-Scholl-Straße 11 · 71384 Weinstadt
Phone +49 (0) 7151/60 68 70 · Fax +49 (0) 7151/60 91 00 · info@tk-kabel.de · www.tk-kabel.de