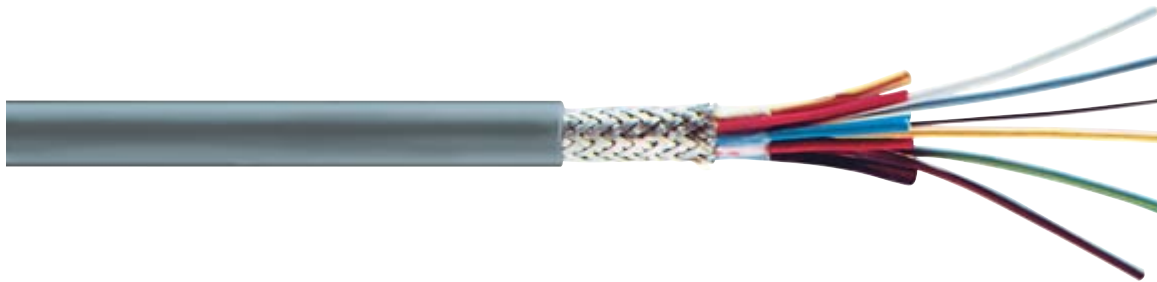


Brutronic® LiYCY-O

Flexible electronics cable with overall copper braided screening;
preferred EMC compatible cable type



Applications

Brutronic LiYCY cables are used as connecting cables in control, measuring and signalling technology as well as in data processing and office technology. Ideal for use in connection with mobile equipment due to high flexibility and reduced outer diameter.

These cables with copper screening are ideal for interference-free data and signal transmission in measuring and control technology in EMI environments.

Design

- Stranded bare Cu conductor, fine wire
- Strand structure to VDE 0295 class 5 / IEC 60228 class 5 (exception 0.34 mm² = stranded bare Cu conductor 7 x 0.25 mm)
- Core insulation: special PVC
- Core identification: 0.14 to 0.75 mm² – to DIN 47100, without colour repetition 1.0 to 10.0 mm² – black cores with printed consecutive number coding
- Cores twisted in layers, with optimal lay lengths
- Film lapping
- Braided screening made of tinned copper wires
- Outer sheath: special PVC
- Sheath colour: RAL 7001 grey

Available special types:

- different core colours
- different sheath colours, etc.

Electrical and technical specifications

Peak operating voltage: 300 V
2.5 mm² and over: 500 V
(Not approved for use as mains power cable!)

Test voltage: 1200 V
2.5 mm² and over: 2000 V

Insulation resistance at +20° C:
≥ 20 MOhm x km

Bending radius: 15 x cable diameter

Temperature range:
flexible – 5° C to +70° C
stationary –30° C to +80° C

Flame retardant to IEC 60332-1

Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
311001401	1x0.14	8.0	3.2	16
311001402	2x0.14	11.0	3.9	20
311001403	3x0.14	12.0	4.1	24
311001404	4x0.14	14.0	4.3	28
311001405	5x0.14	16.0	4.6	34
311001406	6x0.14	19.0	4.9	36
311001407	7x0.14	20.0	4.9	39
311001408	8x0.14	22.0	5.8	43
311001409	9x0.14	24.0	5.8	49
311001410	10x0.14	26.0	6.1	54
311001412	12x0.14	28.0	6.3	59
311001414	14x0.14	33.0	6.7	65
311001415	15x0.14	39.0	6.9	70
311001416	16x0.14	42.7	7.0	74
311001418	18x0.14	52.0	7.7	92
311001420	20x0.14	57.0	7.9	94
311001421	21x0.14	59.0	8.3	104
311001424	24x0.14	70.0	8.5	106
311001425	25x0.14	76.0	8.5	111
311001427	27x0.14	84.0	8.5	121
311001430	30x0.14	90.0	8.7	129
311001432	32x0.14	96.0	9.0	138
311001436	36x0.14	108.0	9.3	148
311001440	40x0.14	115.0	10.4	164
311001448	48x0.14	130.0	10.9	191
311001450	50x0.14	135.0	11.1	196
311001452	52x0.14	142.0	11.1	200
311001456	56x0.14	148.0	11.4	211
311001461	61x0.14	152.0	11.7	242
311001480	80x0.14	195.0	16.0	486
399001067	100x0.14	251.0	17.0	578
311002501	1x0.25	8.0	3.0	14
311002502	2x0.25	15.0	4.5	28
311002503	3x0.25	18.0	4.7	34
311002504	4x0.25	22.0	5.0	40
311002505	5x0.25	25.0	5.6	47
311002506	6x0.25	30.0	6.0	59
311002507	7x0.25	32.0	6.0	61
311002508	8x0.25	35.0	7.1	66
311002510	10x0.25	42.0	7.5	80
311002512	12x0.25	50.0	7.7	91
311002514	14x0.25	58.0	8.0	120
311002515	15x0.25	61.0	8.2	134
311002516	16x0.25	67.0	8.4	139
311002518	18x0.25	80.0	8.8	143
311002520	20x0.25	100.0	9.3	148
311002521	21x0.25	104.0	9.6	151
311002524	24x0.25	115.0	10.5	161
311002525	25x0.25	118.0	10.7	168
311002527	27x0.25	123.0	10.7	172
311002530	30x0.25	130.0	11.0	187
311002532	32x0.25	135.0	11.4	201
311002536	36x0.25	145.0	11.8	217
311002540	40x0.25	155.0	12.7	221
311002544	44x0.25	165.0	13.5	329
311002548	48x0.25	174.0	13.5	350
311002550	50x0.25	180.0	13.8	359
311002552	52x0.25	186.0	13.8	385
311002556	56x0.25	201.0	14.0	498
311002561	61x0.25	220.0	15.0	593
311002580	80x0.25	292.0	19.3	698
399001068	100x0.25	371.0	22.0	990

Brutronic® LiYCY-O

Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
311003401	1x0.34	10.0	3.2	16
311003402	2x0.34	17.0	4.9	31
311003403	3x0.34	20.0	5.1	38
311003404	4x0.34	24.0	5.7	46
311003405	5x0.34	30.0	6.2	54
311003406	6x0.34	39.0	6.8	67
311003407	7x0.34	42.0	6.8	70
311003408	8x0.34	45.0	7.8	76
311003410	10x0.34	59.0	8.3	114
311003412	12x0.34	65.0	8.5	127
311003414	14x0.34	75.0	8.9	141
311003415	15x0.34	79.0	9.4	152
311003416	16x0.34	82.0	9.4	155
311003418	18x0.34	92.0	10.2	186
311003420	20x0.34	124.0	10.7	195
311003421	21x0.34	130.0	11.1	202
311003424	24x0.34	140.0	11.7	244
311003427	27x0.34	150.0	11.9	261
311003430	30x0.34	156.0	12.3	282
311003432	32x0.34	165.0	13.0	298
311003436	36x0.34	183.0	13.4	325
311003440	40x0.34	198.0	14.8	352
311003442	42x0.34	205.0	14.8	371
311003448	48x0.34	228.0	15.5	430
311003450	50x0.34	236.0	15.7	459
311003461	61x0.34	299.0	16.8	510
311003480	80x0.34	370.0	21.2	669
399001069	100x0.34	415.0	26.5	836
311005001	1x0.5	14.0	3.4	21
311005002	2x0.5	23.0	5.6	36
311005003	3x0.5	35.0	5.9	45
311005004	4x0.5	45.0	6.3	54
311005005	5x0.5	57.0	7.0	67
311005006	6x0.5	68.0	7.6	81
311005007	7x0.5	80.0	7.6	84
311005008	8x0.5	85.0	8.7	111
311005010	10x0.5	100.0	9.3	134
311005012	12x0.5	112.0	9.6	156
311005014	14x0.5	125.0	10.4	169
311005015	15x0.5	130.0	10.4	180
311005016	16x0.5	140.0	10.9	195
311005018	18x0.5	152.0	11.4	215
311005020	20x0.5	165.0	12.4	234
311005021	21x0.5	171.0	12.7	251
311005024	24x0.5	190.0	13.4	298
311005025	25x0.5	198.0	13.7	302
311005027	27x0.5	206.0	13.8	321
311005030	30x0.5	225.0	14.6	348
311005032	32x0.5	236.0	15.1	373
311005034	34x0.5	243.0	15.3	388
311005036	36x0.5	260.0	15.5	405
311005040	40x0.5	290.0	16.3	440
311005042	42x0.5	298.0	17.1	487
311005044	44x0.5	311.0	17.6	505
311005048	48x0.5	330.0	18.0	532
311005050	50x0.5	340.0	18.4	552
311005052	52x0.5	355.0	18.4	566
311005056	56x0.5	377.0	19.4	618
311005061	61x0.5	415.0	19.6	659
311005080	80x0.5	515.0	22.7	864
399001070	100x0.5	630.0	25.5	1050

Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
311007501	1x0.75	18.0	3.8	27
311007502	2x0.75	35.0	6.0	56
311007503	3x0.75	46.0	6.3	70
311007504	4x0.75	56.0	7.6	95
311007505	5x0.75	70.0	7.6	130
311007506	6x0.75	85.0	8.2	155
311007507	7x0.75	98.0	8.2	168
311007508	8x0.75	110.0	9.4	173
311007510	10x0.75	131.0	10.5	195
311007512	12x0.75	148.0	10.8	232
311007514	14x0.75	167.0	11.6	260
311007516	16x0.75	183.0	12.1	296
311007518	18x0.75	205.0	13.0	315
311007520	20x0.75	220.0	13.3	364
311007524	24x0.75	250.0	15.0	418
311007525	25x0.75	271.0	15.1	430
311007530	30x0.75	315.0	15.8	500
311007532	32x0.75	330.0	16.4	520
311007536	36x0.75	370.0	17.2	606
311007540	40x0.75	395.0	17.8	672
311007542	42x0.75	440.0	19.5	693
311007550	50x0.75	480.0	20.9	807
311007561	61x0.75	555.0	22.5	942
311007580	80x0.75	715.0	26.5	1190
399001071	100x0.75	910.0	30.0	1463
311010001	1x1.0	23.0	4.9	44
311010002	2x1.0	55.0	6.3	84
311010003	3x1.0	70.0	6.8	110
311010004	4x1.0	80.0	7.3	130
311010005	5x1.0	95.0	8.0	156
311010006	6x1.0	105.0	8.6	178
311010007	7x1.0	120.0	8.6	192
311010008	8x1.0	130.0	9.4	223
311010010	10x1.0	165.0	11.1	251
311010012	12x1.0	185.0	11.4	265
311010014	14x1.0	205.0	12.6	272
311010016	16x1.0	220.0	13.4	361
311010018	18x1.0	245.0	14.0	380
311010020	20x1.0	270.0	14.8	388
311010024	24x1.0	320.0	16.2	451
311010025	25x1.0	330.0	16.4	475
311010030	30x1.0	395.0	16.9	554
311010034	34x1.0	440.0	17.7	629
311010040	40x1.0	510.0	19.0	709
311010042	42x1.0	533.0	21.0	769
311010050	50x1.0	625.0	23.0	995
311010061	61x1.0	710.0	25.3	1100
311010080	80x1.0	940.0	30.8	1485
399001072	100x1.0	1180.0	35.0	1830
311015001	1x1.5	29.0	5.1	49
311015002	2x1.5	65.0	7.5	97
311015003	3x1.5	90.0	7.9	125
311015004	4x1.5	110.0	8.5	165
311015005	5x1.5	125.0	9.3	193
311015006	6x1.5	144.0	10.5	219
311015007	7x1.5	159.0	10.5	245
311015008	8x1.5	175.0	11.3	270
311015010	10x1.5	210.0	13.3	338
311015012	12x1.5	245.0	13.7	365
311015014	14x1.5	280.0	14.8	410
311015016	16x1.5	315.0	15.5	465
311015018	18x1.5	345.0	16.3	553
311015020	20x1.5	375.0	17.1	635

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Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
311015024	24x1.5	448.0	19.5	705
311015025	25x1.5	465.0	19.9	720
311015030	30x1.5	555.0	20.5	776
311015032	32x1.5	577.0	20.7	836
311015034	34x1.5	612.0	21.5	896
311015036	36x1.5	630.0	22.0	985
311015042	42x1.5	782.0	24.0	1140
311015050	50x1.5	885.0	25.8	1330
311015061	61x1.5	1120.0	27.0	1650
311015080	80x1.5	1360.0	32.5	2085
399001073	100x1.5	1690.0	37.5	2570
311025001	1x2.5	65.0	5.9	95
311025002	2x2.5	98.0	9.0	148
311025003	3x2.5	124.0	9.5	188
311025004	4x2.5	150.0	10.9	236
311025005	5x2.5	180.0	11.9	270
311025006	6x2.5	210.0	13.2	305
311025007	7x2.5	235.0	13.2	340
311025008	8x2.5	262.0	14.7	382
311025010	10x2.5	335.0	16.8	512
311025012	12x2.5	386.0	17.8	585
311040002	2x4.0	135.0	12.4	194
311040003	3x4.0	178.0	12.7	250
311040004	4x4.0	220.0	14.0	302
311040005	5x4.0	270.0	15.3	370
311040006	6x4.0	315.0	16.8	424
311040007	7x4.0	355.0	16.8	473
311060002	2x6.0	175.0	13.0	251
311060003	3x6.0	240.0	14.0	285
311060004	4x6.0	305.0	14.8	412
311060005	5x6.0	370.0	17.7	505
311060006	6x6.0	440.0	18.8	597
311060007	7x6.0	505.0	18.8	671
311100002	2x10	265.0	15.5	360
311100003	3x10	370.0	16.5	485
311100004	4x10	485.0	18.1	620
311100005	5x10	595.0	20.0	796
311100006	6x10	720.0	22.8	905
311100007	7x10	820.0	22.8	1062