

# UNITRONIC® LiYY/ LiYCY



Multi-Conductor, Unshielded and Shielded, DIN Color Code  
250V Industrial Communication & Control Cable

The UNITRONIC® European series of communication and control cables have been designed for general purpose installation in industrial signal and bus applications that utilize the DIN-47100 color code. EMC resistant designs with foil and braid shielding construction is available in all conductor styles.

**Recommended Applications:**

RS-232, Data Buses, Process Control Instrumentation, Low Voltage Signaling and Interconnect

**Application Advantage:**

- Extended Temperature Rating of -40°C to 80°C
- Excellent resistance to Acids, Caustics and Oils
- Highly flexible for ease of installation (not recommended for flexing applications)

**UNITRONIC® LiYY Construction:**





Stranded bare copper conductors; PVC insulation; dry lubricant; gray PVC jacket












**UNITRONIC® LiYCY Construction:**

Stranded bare copper conductors; PVC insulation; clear mylar wrap, tinned copper braid (85% coverage); gray PVC jacket



<b>Cable Attributes, See Page 653</b>  Oil Resistance: OR-01  Flame Resistance: FR-02  Motion Type: FL-01  Mechanical Properties: MP-01		<b>Availability:</b>  Standard put-ups are 328ft 1640ft, and 3280ft. Bulk reels can be cut to length.	<b>Complete the installation with:</b>  SKINTOP® Strain Relief: Page 486  OLFLEX® Tubing: Page 546  EPIC® Connectors: Page 251  Assemblies: Page 627
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**Technical Data:**

 Minimum Bend Radius <b>UNITRONIC® LiYY:</b> for installation: 4 x cable diameter  <b>UNITRONIC® LiYCY:</b> for installation: 6 x cable diameter	 Inductance: Nominal 0.65 mH/km   Mutual Capacitance: Cond./cond: 120 nF/km Cond./shield: 160 nF/km
 Temperature Range: -40°C to +80°C	 Conductor Stranding: Fine Wire
 Nominal Voltage: 250V	 Color Code: DIN 47100, Chart 8, Page 674
 Test Voltage: 1500V	 Approvals: Based on VDE specifications

# UNITRONIC® LiYY/ LiYCY



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250V Industrial Communication & Control Cable

## UNITRONIC® LiYY: Multi-Conductor Signal and Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
26 AWG (18/38) 0.14 mm <sup>2</sup>							22 AWG (7/30) 0.34 mm <sup>2</sup>						
0028202	2	.126	3.2	2	9	13	0028402	2	.165	4.2	4	15	22
0028203	3	.134	3.4	3	11	16	0028403	3	.173	4.4	7	21	31
0028204	4	.142	3.6	4	13	19	0028404	4	.189	4.8	9	29	43
0028205	5	.154	3.9	5	15	22	0028405	5	.217	5.5	11	36	54
0028207	7	.165	4.2	6	19	28	0028407	7	.232	5.9	15	42	62
0028208	8	.193	4.9	7	24	35	0028408	8	.280	7.1	18	49	73
0028210	10	.205	5.2	9	28	41	0028410	10	.299	7.6	22	55	82
0028212	12	.220	5.6	11	32	48	0028412	12	.307	7.8	26	69	102
0028214	14	.228	5.8	13	36	53	0028414	14	.323	8.2	31	73	109
0028216	16	.240	6.1	15	40	59	0028416	16	.343	8.7	35	85	127
0028220	20	.276	7.0	18	48	71	0028420	20	.378	9.6	44	107	159
0028221	21	.283	7.2	19	52	77	0028421	21	.409	10.4	46	112	167
0028225	25	.307	7.8	23	59	87	0028425	25	.441	11.2	55	128	190
0028228	28	.307	7.8	25	69	103	0028430	30	.457	11.6	66	152	226
0028230	30	.315	8.0	27	73	108	0028432	32	.476	12.1	70	165	245
0028236	36	.339	8.6	33	85	127	0028436	36	.492	12.5	79	191	284
0028237	37	.350	8.9	33	79	118	0028440	40	.531	13.5	88	213	317
0028240	40	.366	9.3	36	93	139	0028450	50	.591	15.0	110	273	407
0028244	44	.378	9.6	40	103	153	20 AWG (16/32) 0.50 mm <sup>2</sup>						
0028250	50	.409	10.4	45	115	171	0028502	2	.185	4.7	6	27	40
0028256	56	.421	10.7	51	126	187	0028503	3	.197	5.0	10	32	47
24 AWG (14/34) 0.25 mm <sup>2</sup>							0028504	4	.220	5.6	13	38	56
0028302	2	.150	3.8	3	12	18	0028505	5	.240	6.1	16	44	65
0028303	3	.157	4.0	5	15	22	0028507	7	.272	6.9	23	55	82
0028304	4	.169	4.3	6	18	26	0028508	8	.315	8.0	26	60	90
0028305	5	.185	4.7	8	21	31	0028510	10	.339	8.6	32	79	117
0028307	7	.201	5.1	11	28	42	0028512	12	.350	8.9	39	89	133
0028308	8	.244	6.2	13	33	49	0028516	16	.402	10.2	52	114	170
0028310	10	.268	6.8	16	39	58	0028520	20	.449	11.4	65	144	214
0028312	12	.276	7.0	19	45	67	0028525	25	.484	12.3	81	178	265
0028314	14	.287	7.3	23	51	75	0028530	30	.520	13.2	97	204	304
0028316	16	.303	7.7	26	57	84	0028540	40	.622	15.8	129	263	392
0028318	18	.319	8.1	29	62	93	18 AWG (32/32) 1.00 mm <sup>2</sup>						
0028320	20	.339	8.6	32	69	102	0028702	2	.220	5.6	13	37	55
0028325	25	.378	9.6	40	90	134	0028703	3	.232	5.9	19	47	70
0028330	30	.406	10.3	48	104	155	0028705	5	.287	7.3	32	66	98
0028332	32	.421	10.7	52	110	164	16 AWG (30/30) 1.50 mm <sup>2</sup>						
0028336	36	.437	11.1	58	122	182	0028802	2	.268	6.8	19	50	74
0028337	37	.449	11.4	60	124	185	0028803	3	.283	7.2	29	60	89
0028340	40	.472	12.0	65	134	200	0028804	4	.307	7.8	39	71	105
0028350	50	.508	12.9	81	173	257							
0028361	61	.539	13.7	99	205	305							

## UNITRONIC® LiYCY: Shielded Multi-Conductor Signal and Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
26 AWG (18/38) 0.14 mm <sup>2</sup>							0034336						
0034302	2	.154	3.9	8	13	20	0034340	40	.409	10.4	59	141	210
0034303	3	.161	4.1	9	19	28	0034344	44	.421	10.7	74	151	225
0034304	4	.169	4.3	10	22	33	0034350	50	.437	11.1	82	170	253
0034305	5	.181	4.6	10	26	38	24 AWG (14/34) 0.25 mm <sup>2</sup>						
0034306	6	.193	4.9	12	26	38	0034402	2	.177	4.5	11	22	32
0034307	7	.193	4.9	13	33	49	0034403	3	.185	4.7	14	25	37
0034308	8	.228	5.8	14	38	56	0034404	4	.197	5.0	16	28	41
0034310	10	.240	6.1	19	44	66	0034405	5	.220	5.6	19	34	51
0034312	12	.248	6.3	20	52	78	0034406	6	.236	6.0	20	39	58
0034314	14	.264	6.7	22	54	80	0034407	7	.236	6.0	25	44	65
0034315	15	.272	6.9	25	58	86	0034408	8	.280	7.1	28	49	73
0034316	16	.276	7.0	29	60	90	0034410	10	.295	7.5	31	55	82
0034318	18	.287	7.3	33	70	104	0034412	12	.303	7.7	36	97	145
0034320	20	.303	7.7	36	78	116	0034414	14	.315	8.0	40	67	99
0034321	21	.311	7.9	37	81	121	0034415	15	.327	8.3	41	75	111
0034325	25	.331	8.4	42	100	149	0034416	16	.331	8.4	43	83	124
0034328	28	.335	8.5	44	103	153	0034418	18	.346	8.8	56	96	143
0034330	30	.343	8.7	46	106	158	0034420	20	.366	9.3	59	102	152
0034332	32	.354	9.0	49	110	164	0034421	21	.378	9.6	62	108	161

# UNITRONIC® LIYY/ LIYCY



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250V Industrial Communication & Control Cable

## UNITRONIC® LIYCY: Shielded Multi-Conductor Signal and Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mt	Approx. Weight lbs/mt	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mt	Approx. Weight lbs/mt	Approx. Weight kg/km
0034425	25	.421	10.7	77	116	172	20 AWG (16/32) 0.50 mm <sup>2</sup>						
0034428	28	.425	10.8	85	122	181	0034602	2	.220	5.6	19	36	54
0034430	30	.433	11.0	89	127	189	0034603	3	.232	5.9	26	45	67
0034432	32	.449	11.4	93	136	203	0034604	4	.248	6.3	29	52	77
0034436	36	.465	11.8	99	148	220	0034605	5	.276	7.0	34	60	90
0034440	40	.500	12.7	106	167	248	0034606	6	.299	7.6	40	70	104
0034444	44	.524	13.3	111	196	292	0034607	7	.299	7.6	44	75	112
0034450	50	.543	13.8	120	214	318	0034608	8	.343	8.7	47	91	135
0034461	61	.591	15.0	138	245	365	0034610	10	.366	9.3	59	108	160
22 AWG (7/30) 0.34 mm <sup>2</sup>							0034612	12	.378	9.6	67	119	177
0034502	2	.193	4.9	14	25	37	0034618	18	.465	11.8	90	161	239
0034503	3	.201	5.1	18	33	49	0034620	20	.476	12.1	100	185	276
0034504	4	.224	5.7	19	40	59	0034625	25	.539	13.7	142	237	352
0034505	5	.244	6.2	20	44	66	0034630	30	.571	14.5	155	267	397
0034506	6	.268	6.8	30	53	79	18 AWG (32/32) 1.00 mm <sup>2</sup>						
0034507	7	.268	6.8	32	56	83	0034802	2	.248	6.3	29	48	72
0034508	8	.307	7.8	35	63	94	0034803	3	.268	6.8	38	60	90
0034510	10	.327	8.3	50	87	129	0034804	4	.287	7.3	46	73	109
0034512	12	.335	8.5	54	95	142	0034805	5	.315	8.0	53	85	126
0034514	14	.350	8.9	58	103	154	0034807	7	.339	8.6	79	115	171
0034515	15	.362	9.2	60	104	155	0034810	10	.437	11.1	94	153	228
0034516	16	.370	9.4	63	108	160	0034812	12	.449	11.4	113	174	259
0034518	18	.402	10.2	69	116	173	0034818	18	.528	13.4	169	261	389
0034520	20	.421	10.7	75	129	192	0034825	25	.638	16.2	225	347	517
0034521	21	.437	11.1	78	134	199	16 AWG (30/30) 1.50 mm <sup>2</sup>						
0034525	25	.469	11.9	91	174	259	0034902	2	.295	7.5	39	60	90
0034528	28	.472	12.0	103	188	280	0034903	3	.311	7.9	50	77	115
0034530	30	.484	12.3	107	196	291	0034904	4	.335	8.5	73	103	153
0034532	32	.512	13.0	111	205	305	0034905	5	.366	9.3	87	118	176
0034536	36	.528	13.4	120	222	331	0034907	7	.413	10.5	110	148	220
0034540	40	.583	14.8	134	245	365	0034912	12	.539	13.7	171	253	376
0034544	44	.602	15.3	144	211	314	0034918	18	.642	16.3	235	349	519
0034550	50	.626	15.9	158	290	431	0034925	25	.783	19.9	370	605	901