

# 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)

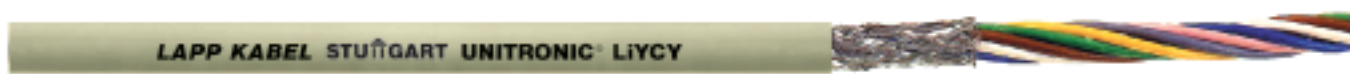
**UNITRONIC® LiYY Construction:**

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 Motion Type: FL-01 Flame Resistance: FR-02 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	Inductance: Nominal 0.65 mH/km
<b>UNITRONIC® LiYCY:</b> for installation: 6 x cable diameter	Mutual Capacitance: Cond./cond: 120 nF/km Cond./shield: 160 nF/km
Temperature Range: -30°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



Multi-Conductor, Unshielded and Shielded, DIN Color Code  
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	0034336	36	.366	9.3	56	123	183
0034303	3	.161	4.1	9	19	28	0034340	40	.409	10.4	59	141	210
0034304	4	.169	4.3	10	22	33	0034344	44	.421	10.7	74	151	225
0034305	5	.181	4.6	10	26	38	0034350	50	.437	11.1	82	170	253
0034306	6	.193	4.9	12	26	38	24 AWG (14/34) 0.25 mm <sup>2</sup>						
0034307	7	.193	4.9	13	33	49	0034402	2	.177	4.5	11	22	32
0034308	8	.228	5.8	14	38	56	0034403	3	.185	4.7	14	25	37
0034310	10	.240	6.1	19	44	66	0034404	4	.197	5.0	16	28	41
0034312	12	.248	6.3	20	52	78	0034405	5	.220	5.6	19	34	51
0034314	14	.264	6.7	22	54	80	0034406	6	.236	6.0	20	39	58
0034315	15	.272	6.9	25	58	86	0034407	7	.236	6.0	25	44	65
0034316	16	.276	7.0	29	60	90	0034408	8	.280	7.1	28	49	73
0034318	18	.287	7.3	33	70	104	0034410	10	.295	7.5	31	55	82
0034320	20	.303	7.7	36	78	116	0034412	12	.303	7.7	36	97	145
0034321	21	.311	7.9	37	81	121	0034414	14	.315	8.0	40	67	99
0034325	25	.331	8.4	42	100	149	0034415	15	.327	8.3	41	75	111
0034328	28	.335	8.5	44	103	153	0034416	16	.331	8.4	43	83	124
0034330	30	.343	8.7	46	106	158	0034418	18	.346	8.8	56	96	143
0034332	32	.354	9.0	49	110	164	0034420	20	.366	9.3	59	102	152
							0034421	21	.378	9.6	62	108	161

# UNITRONIC® LIYY/ LIYCY



Multi-Conductor, Unshielded and Shielded, DIN Color Code

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/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	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

# UNITRONIC® LiYY (TP)/ LiYCY (TP)



Multi-Pair, 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 (TP) Twisted Pair Construction:**

Stranded bare copper conductors; PVC insulation; foil wrap; gray PVC jacket



**UNITRONIC® LiYCY (TP) Twisted Pair Construction:**

Stranded bare copper conductors; PVC insulation; conductors paired and cabled together; clear mylar wrap; tinned copper braid (85% coverage); gray PVC jacket.



**Cable Attributes, See Page 653**

	Oil Resistance: OR-01		Flame Resistance: FR-02
	Motion Type: FL-01		Mechanical Properties: MP-01

**Availability:**

Standard put-ups are 328ft 1640ft, and 3280ft. Bulk reels can be cut to length.

**Complete the installation with:**

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		Assemblies: Page 627

**Technical Data:**

	Minimum Bend Radius <b>UNITRONIC® LiYY (TP):</b> for installation:	5 x cable diameter		Inductance:	Nominal 0.65 mH/km
	<b>UNITRONIC® LiYCY (TP):</b> for installation:	6 x cable diameter		Mutual Capacitance:	Cond./cond: 120 nF/km Cond./shield: 160 nF/km
	Temperature Range: <b>UNITRONIC® LiYY (TP):</b> <b>UNITRONIC® LiYCY (TP):</b>	-30°C to +80°C -30°C to +70°C		Conductor Stranding:	Fine Wire
	Nominal Voltage:	250V		Color Code:	DIN 47100, Chart 7, Page 673
	Test Voltage: 26 AWG > 26 AWG	1200V 1500V		Approvals:	Based on VDE specifications

# UNITRONIC® LiYY (TP)/ LiYCY (TP)



Multi-Pair, Unshielded and Shielded, DIN Color Code

250V Industrial Communication & Control Cable

## UNITRONIC® LiYY (TP): Twisted Pair Signal and Control Cable

Part Number	Number of Pairs	Nominal Outer Diameter inches mm	Copper Weight lbs/mft	Approx. Weight lbs/mft kg/km	Part Number	Number of Pairs	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>					24 AWG (14/34) 0.25 mm <sup>2</sup>				
0035101	2	.189 4.8	4	17 26	0035160	2	.240 6.1	6	26 38
0035102	3	.193 4.9	5	22 32	0035161	3	.244 6.2	10	32 48
0035103	4	.217 5.5	7	26 39	0035162	4	.272 6.9	13	40 59
0035104	5	.224 5.7	9	31 46	0035163	6	.307 7.8	19	54 80
0035105	6	.244 6.2	11	34 51	0035164	8	.362 9.2	26	66 98
0035108	10	.315 8.0	18	52 78	0035165	10	.406 10.3	32	77 115
0035110	12	.323 8.2	22	63 95	20 AWG (16/32) 0.50 mm <sup>2</sup>				
0035111	14	.339 8.6	25	71 106	0035170	2	.311 7.9	13	48 72
0035113	16	.358 9.1	29	74 111	0035171	3	.315 8.0	19	56 83
0035114	18	.378 9.6	33	80 120	0035172	4	.343 8.7	26	77 115
0035118	25	.465 11.8	45	121 181	0035174	8	.480 12.2	52	138 206
0035122	30	.480 12.2	54	134 200	0035175	10	.520 13.2	65	166 247
0035130	50	.622 15.8	90	260 387					

## UNITRONIC® LiYCY (TP): Shielded Twisted Pair Signal and Control Cable

Part Number	Number of Pairs	Nominal Outer Diameter inches mm	Copper Weight lbs/mft	Approx. Weight lbs/mft kg/km	Part Number	Number of Pairs	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>					20 AWG (16/32) 0.50 mm <sup>2</sup>				
0035131	2	.224 5.7	12	26 39	0035805	10	.433 11.0	69	106 158
0035141	3	.228 5.8	15	32 48	0035806	12	.445 11.3	81	128 190
0035132	4	.244 6.2	18	36 54	0035807	16	.492 12.5	98	160 238
0035133	6	.280 7.1	33	57 85	0035808	25	.634 16.1	138	231 344
0035150	8	.323 8.2	36	65 97	18 AWG (32/32) 1.00 mm <sup>2</sup>				
0035134	10	.343 8.7	40	74 110	0035810	2	.339 8.6	32	62 93
0035135	12	.350 8.9	44	95 142	0035811	3	.343 8.7	50	87 129
0035136	16	.402 10.2	53	103 154	0035812	4	.370 9.4	55	98 146
0035142	20	.445 11.3	65	124 184	0035813	6	.437 11.1	74	133 198
0035137	25	.492 12.5	76	160 238	0035814	8	.516 13.1	93	174 259
0035138	30	.516 13.1	94	181 270	0035816	12	.587 14.9	133	238 354
24 AWG (14/34) 0.25 mm <sup>2</sup>					0035817	16	.650 16.5	161	308 459
0035800	2	.276 7.0	19	36 54					
0035801	3	.280 7.1	27	44 66	0035830	2	.406 10.3	56	95 142
0035802	4	.299 7.6	30	54 81	0035831	3	.409 10.4	65	116 173
0035803	6	.335 8.5	47	77 115	0035832	4	.445 11.3	81	142 212
0035804	8	.406 10.3	52	87 130	0035836	5	.465 11.8	108	179 266

# UNITRONIC® LiHH/ LiHCH



Multi-Conductor, Unshielded and Shielded, DIN Color Code  
250V Halogen-Free 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:**

- Low Smoke Zero Halogen
- 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)

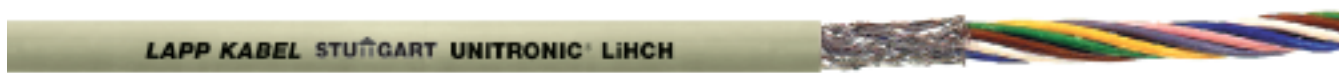
**UNITRONIC® LiHH Construction:**

Finely stranded bare copper; halogen-free insulation; gray halogen-free jacket.



**UNITRONIC® LiHCH Construction:**

Finely stranded bare copper; halogen-free insulation; clear mylar wrap tinned copper braided shield; gray halogen-free jacket.



**Cable Attributes, See Page 653**

	Oil Resistance: OR-01		Flame Resistance: FR-02
	Motion Type: FL-01		Mechanical Properties: MP-01

**Availability:**

Standard put-ups are 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

**Complete the installation with:**

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		Assemblies: Page 627

**Technical Data:**

	Minimum Bend Radius <b>UNITRONIC® LiHH:</b> for installation:	4 x cable diameter		Inductance:	Nominal 0.65 mH/km
	<b>UNITRONIC® LiHCH:</b> for installation:	6 x cable diameter		Mutual Capacitance:	Cond./cond: 120 nF/km Cond./shield: 160 nF/km
	Temperature Range:	-30°C to +80°C		Conductor Stranding:	Fine Wire
	Working Voltage:	250V		Color Code:	DIN 47100, Chart 8, Page 674
	Test Voltage:	1200V		Approvals:	Based on VDE specifications

# UNITRONIC® LIHH/ LIHCH



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

## UNITRONIC® LIHH: Halogen-Free Signal & 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>						
0037100	2	.134	3.4	2	8	12	0037140	2	.173	4.4	4	19	28
0037101	3	.142	3.6	3	10	15	0037141	3	.181	4.6	7	20	30
0037102	4	.150	3.8	4	11	17	0037142	4	.197	5.0	9	27	40
0037103	5	.161	4.1	5	15	22	0037143	5	.224	5.7	11	30	44
0037104	6	.173	4.4	5	17	25	0037144	7	.240	6.1	15	40	60
0037105	7	.173	4.4	6	17	26	0037145	8	.287	7.3	18	44	65
0037106	8	.201	5.1	7	19	29	0037146	10	.307	7.8	22	54	80
0037107	10	.213	5.4	9	24	35	0037147	12	.315	8.0	26	65	97
0037108	12	.228	5.8	11	29	43	20 AWG (16/32) 0.50 mm <sup>2</sup>						
0037109	20	.283	7.2	18	49	73	0037150	2	.193	4.9	6	21	31
0037110	25	.315	8.0	23	61	91	0037151	3	.205	5.2	10	25	37
24 AWG (14/34) 0.25 mm <sup>2</sup>							0037152	4	.228	5.8	13	30	45
0037120	2	.157	4.0	3	15	22	0037153	5	.248	6.3	16	39	58
0037121	3	.165	4.2	5	17	25	0037154	7	.276	7.0	23	48	72
0037122	4	.177	4.5	6	19	28	0037155	12	.358	9.1	39	79	117
0037123	5	.193	4.9	8	23	34	18 AWG (32/32) 1.00 mm <sup>2</sup>						
0037124	6	.209	5.3	10	26	39	0037170	2	.228	5.8	13	34	50
0037125	7	.209	5.3	11	28	42	0037171	3	.240	6.1	19	38	57
0037126	8	.252	6.4	13	34	50	0037172	4	.260	6.6	26	45	67
0037127	10	.276	7.0	16	40	60	0037173	5	.295	7.5	32	55	82
0037128	12	.283	7.2	19	45	67	16 AWG (30/30) 1.50 mm <sup>2</sup>						
0037129	16	.311	7.9	26	57	85	0037180	2	.276	7.0	19	40	59
0037130	18	.327	8.3	29	67	100	0037181	3	.291	7.4	29	48	72
0037131	25	.386	9.8	40	94	140	0037182	4	.315	8.0	39	58	87

## UNITRONIC® LIHCH: Shielded Halogen-Free Signal & 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>							20 AWG (16/32) 0.50 mm <sup>2</sup>						
0037302	2	.161	4.1	8	15	22	0037507	7	.276	7.0	28	49	73
0037303	3	.169	4.3	9	17	25	0037508	8	.315	8.0	30	56	84
0037304	4	.177	4.5	11	19	29	0037510	10	.335	8.5	42	68	101
0037305	5	.189	4.8	13	22	32	0037512	12	.343	8.7	54	95	142
0037306	6	.201	5.1	15	24	35	0037516	16	.378	9.6	63	108	160
0037307	7	.201	5.1	16	26	38	0037525	25	.476	12.1	97	174	259
0037308	8	.236	6.0	17	28	41	24 AWG (14/34) 0.25 mm <sup>2</sup>						
0037310	10	.248	6.3	19	39	58	0037602	2	.228	5.8	19	26	38
0037312	12	.256	6.5	20	52	78	0037603	3	.240	6.1	24	32	47
0037316	16	.283	7.2	29	60	90	0037604	4	.256	6.5	30	45	67
0037325	25	.343	8.7	42	100	149	0037605	5	.283	7.2	34	51	76
22 AWG (7/30) 0.34 mm <sup>2</sup>							0037606	6	.307	7.8	40	56	84
0037402	2	.185	4.7	10	17	25	0037607	7	.307	7.8	46	61	91
0037403	3	.193	4.9	12	20	30	0037608	8	.350	8.9	50	70	104
0037404	4	.205	5.2	15	24	35	0037610	10	.374	9.5	62	88	131
0037405	5	.228	5.8	17	27	40	0037612	12	.386	9.8	67	119	177
0037406	6	.244	6.2	20	33	49	0037618	18	.461	11.7	90	161	239
0037407	7	.244	6.2	22	35	52	0037625	25	.547	13.9	142	237	352
0037408	8	.287	7.3	24	39	58	18 AWG (32/32) 1.00 mm <sup>2</sup>						
0037410	10	.303	7.7	28	54	81	0037802	2	.256	6.5	29	48	72
0037412	12	.311	7.9	40	97	145	0037803	3	.276	7.0	38	60	90
0037416	16	.339	8.6	43	83	124	0037804	4	.295	7.5	46	73	109
0037425	25	.429	10.9	77	116	172	0037805	5	.323	8.2	53	85	126
24 AWG (14/34) 0.25 mm <sup>2</sup>							0037807	7	.346	8.8	79	115	171
0037502	2	.201	5.1	11	20	30	16 AWG (30/30) 1.50 mm <sup>2</sup>						
0037503	3	.209	5.3	14	24	35	0037902	2	.303	7.7	39	60	90
0037504	4	.232	5.9	17	28	42	0037903	3	.319	8.1	50	77	115
0037505	5	.252	6.4	20	36	53	0037904	4	.343	8.7	73	103	153
0037506	6	.276	7.0	24	40	59	0037905	5	.374	9.5	87	118	176
							0037907	7	.421	10.7	110	148	220

# UNITRONIC® LIHCH (TP)



Multi-Pair, Shielded, DIN Color Code

250V Halogen-Free Industrial Communication Cable

The UNITRONIC® European series of communication 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:

- Low Smoke Zero Halogen
- 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® LIHCH (TP) Twisted Pair Construction:

Finely stranded bare copper; halogen-free insulation; clear mylar wrap; tinned copper braided shield; gray halogen-free jacket.



**Cable Attributes, See Page 653**

	Oil Resistance: OR-01		Flame Resistance: FR-02
	Motion Type: FL-01		Mechanical Properties: MP-01

**Availability:**

Standard put-ups are 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

**Complete the installation with:**

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		Assemblies: Page 627

### Technical Data:

Minimum Bend Radius for installation:	6 x cable diameter	Inductance:	Nominal 0.65 mH/km
Temperature Range:	-30°C to +80°C	Mutual Capacitance:	Cond./cond: 80 nF/km Cond./shield: 120 nF/km
Working Voltage:	250V	Conductor Stranding:	Fine Wire
Test Voltage:	1200V	Color Code:	DIN 47100, Chart 7, Page 673
		Approvals:	Based on VDE specifications

Part Number	Number of Pairs	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Pairs	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>							20 AWG (16/32) 0.50 mm <sup>2</sup>						
0038302	2	.232	5.9	12	26	39	0038410	10	.441	11.2	69	106	158
0038303	3	.236	6.0	15	32	48	0038412	12	.453	11.5	81	128	190
0038304	4	.252	6.4	18	36	54	0038416	16	.500	12.7	98	160	238
0038306	6	.287	7.3	33	57	85	0038602	2	.346	8.8	32	62	93
0038308	8	.331	8.4	36	65	97	0038603	3	.350	8.9	50	87	129
0038310	10	.350	8.9	40	74	110	0038604	4	.378	9.6	55	98	146
0038312	12	.358	9.1	44	95	142	0038606	6	.445	11.3	74	133	198
0038316	16	.409	10.4	53	103	154	0038608	8	.524	13.3	93	174	259
0038320	20	.453	11.5	65	124	184	0038612	12	.594	15.1	133	238	354
0038325	25	.500	12.7	76	160	238	0038616	16	.657	16.7	161	308	459
24 AWG (14/34) 0.25 mm <sup>2</sup>							18 AWG (32/32) 1.00 mm <sup>2</sup>						
0038402	2	.283	7.2	19	36	54	0038802	2	.413	10.5	56	95	142
0038403	3	.287	7.3	27	44	66	0038803	3	.417	10.6	65	116	173
0038404	4	.307	7.8	30	54	81	0038804	4	.453	11.5	81	142	212
0038406	6	.343	8.7	47	77	115	0038805	5	.472	12.0	108	179	266
0038408	8	.413	10.5	52	87	130							



# UNITRONIC® CY PiDY (TP)



Multi-Pair, Individually Shielded and Jacketed, DIN Color Code  
250V Industrial Communication Cable

The UNITRONIC® European series of communication 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:**

- Outstanding EMC protection against signal coupling
- 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® CY PiDY (TP) Twisted Pair Construction:**

Stranded bare copper conductors; PVC insulation; conductors cabled into pairs; tinned copper braid over each pair with an inner PVC jacket; clear mylar wrap; overall tinned copper braid; gray PVC jacket.



**Cable Attributes, See Page 653**

	Oil Resistance: OR-01		Flame Resistance: FR-02
	Motion Type: FL-01		Mechanical Properties: MP-01

**Availability:**

Standard put-ups are 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

**Complete the installation with:**

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		Assemblies: Page 627

**Technical Data:**

Minimum Bend Radius for installation:	6 x cable diameter	Inductance:	Nominal 0.45 mH/km
Temperature Range:	-30°C to +80°C	Mutual Capacitance:	Cond./cond: 120 nF/km Cond./shield: 160 nF/km
Working Voltage:	250V	Conductor Stranding:	Fine Wire
Test Voltage:	1200V	Color Code:	DIN 47100, Chart 7, Page 673
		Approvals:	Based on VDE specifications

Part Number	Number of Pairs	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Pairs	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
24 AWG (14/34) 0.25 mm²							0034255	7	.555	13.1	96	184	274
0034250	2	.366	9.3	40	75	112	0034256	8	.606	15.7	108	218	325
0034251	3	.390	9.8	49	91	136	0034257	10	.673	16.9	126	230	342
0034252	4	.437	10.7	59	113	168	0034258	12	.720	17.4	161	279	416
0034253	5	.465	11.7	70	135	201	0034259	16	.799	19.3	213	364	542
0034254	6	.504	13.1	84	164	244							