

# 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)

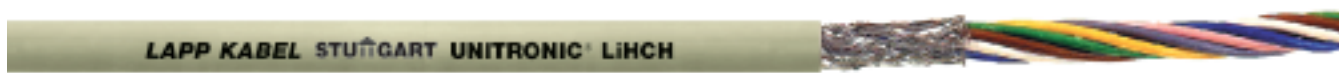
**UNITRONIC® LiHH Construction:**

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