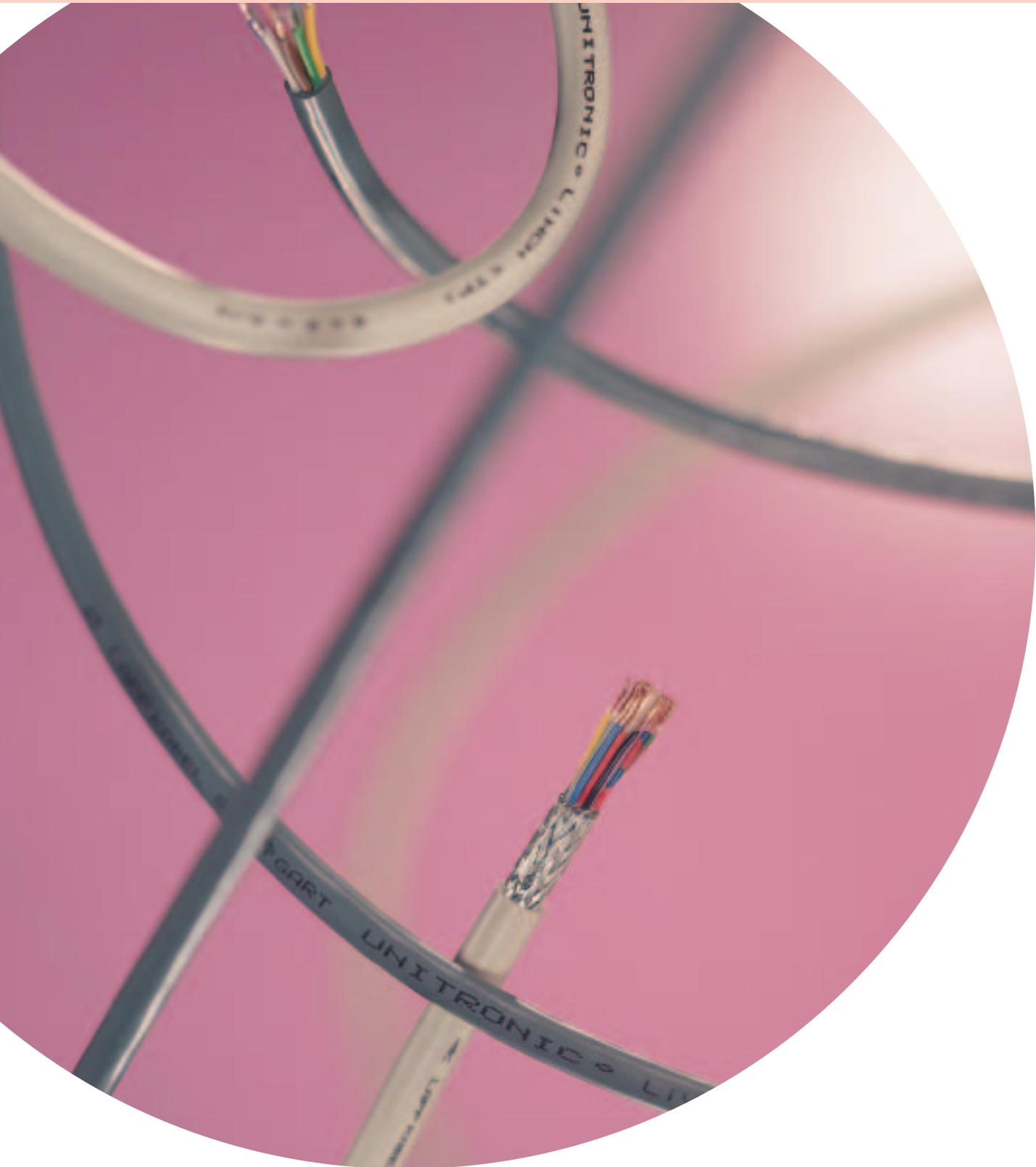


# FLEXIBLE EUROPEAN ELECTRONIC CABLE



# FLEXIBLE EUROPEAN ELECTRONIC CABLE

<b>UNITRONIC® UL/CSA</b>	<b>UL/ CSA</b>	<b>168</b>
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# UNITRONIC® UL/CSA

Multi-Conductor Signal and Control Cable  
DIN Color Coded, UL/CSA Approved



UNITRONIC® UL/CSA is a series of signal and control cables designed to the DIN color code and with small outer diameters to optimize space. These cables are suitable for use in dry or damp applications and are UL/CSA approved. The UNITRONIC® LIYCY is

recommended for use when extra EMI protection is required. The UNITRONIC® LiYCY (TP) offers twisted pairs to provide interference suppression in analog and digital signals caused by external electrical fields.

## UNITRONIC® LiYY UL/CSA Construction:

Stranded bare copper conductors, PVC Insulation, dry lubricant, gray PVC jacket



## UNITRONIC® LiYCY UL/CSA Construction:

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



## UNITRONIC® LiYCY (TP) Twisted Pair UL/CSA Construction:

Stranded bare copper conductors, PVC Insulation, multi-paired, clear mylar wrap, tinned copper braid (85% coverage), gray PVC jacket



Cable Attributes							
	OR-01		FR-02		FL-01		MP-01

## Technical Data:

	Minimum Bend Radius for installation:	15 x cable diameter
	Temperature Range:	-30°C to +80°C
	Nominal Voltage:	300V
	Test Voltage:	1500V

	Conductor Stranding:	Fine Wire
	Color Code: UNITRONIC® LiYY/LiYCY UNITRONIC® LiYCY (TP)	DIN 47100, Chart 8, Page 675 DIN 47100, Chart 7, Page 674
	Approvals:	UL-AWM 2464 CSA-AWM I/II A/B

# UNITRONIC® UL/CSA

Multi-Conductor Signal and Control Cable

DIN Color Coded, UL/CSA Approved



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

Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
26 AWG (18/38) 0.14 mm <sup>2</sup>						22 AWG (7/30) 0.34 mm <sup>2</sup>					
0022403	3	.150	3.8	13	20	0022602	2	.189	4.8	22	32
0022404	4	.157	4.0	15	23	0022603	3	.197	5.0	24	35
0022405	5	.169	4.3	17	25	0022604	4	.213	5.4	31	46
0022408	8	.201	5.1	23	34	0022605	5	.232	5.9	37	56
0022412	12	.224	5.7	32	47	0022607	7	.252	6.4	46	69
0022416	16	.248	6.3	39	58	0022608	8	.276	7.0	51	76
0022421	21	.280	7.1	42	63	0022612	12	.335	8.5	69	103
24 AWG (14/34) 0.25 mm <sup>2</sup>						21 AWG (16/32) 0.50 mm <sup>2</sup>					
0022502	2	.157	4.0	17	26	0022616	16	.374	9.5	88	131
0022505	5	.189	4.8	26	39	0022624	24	.445	11.3	128	190
0022508	8	.224	5.7	35	52	0022632	2	.209	5.3	19	29
0022512	12	.260	6.6	48	72						

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

Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
26 AWG (18/38) 0.14 mm <sup>2</sup>						21 AWG (16/32) 0.50 mm <sup>2</sup>					
0044602	2	.169	4.3	20	30	0044732	2	.236	6.0	28	41
0044604	4	.185	4.7	26	39	0044733	3	.244	6.2	32	47
24 AWG (14/34) 0.25 mm <sup>2</sup>						18 AWG (32/32) 1.00 mm <sup>2</sup>					
0044652	2	.185	4.7	24	36	0044735	5	.291	7.4	48	72
0044655	5	.217	5.5	37	56	0044738	8	.343	8.7	69	102
0044658	8	.252	6.4	49	72	0044850	7	.362	9.2	108	161
0044662	12	.287	7.3	66	98	0044851	10	.461	11.7	134	200
22 AWG (7/30) 0.34 mm <sup>2</sup>						16 AWG (30/30) 1.50 mm <sup>2</sup>					
0044702	2	.217	5.5	22	32	0044912	12	.555	14.1	252	375
0044703	3	.224	5.7	26	38						
0044704	4	.240	6.1	30	44						
0044705	5	.260	6.6	36	53						
0044707	7	.280	7.1	48	71						
0044712	12	.362	9.2	81	120						
0044716	16	.402	10.2	97	145						
0044721	21	.449	11.4	114	170						

## UNITRONIC® LiYCY (TP): Shielded Twisted Pair Multi-Conductor Signal & Control Cable

Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
26 AWG (18/38) 0.14 mm <sup>2</sup>						22 AWG (7/30) 0.34 mm <sup>2</sup>					
0066202	2	.217	5.5	31	46	0066238	2	.291	7.4	30	45
0066204	4	.240	6.1	35	53	0066239	3	.307	7.8	43	64
0066205	5	.260	6.6	46	69	0066240	4	.343	8.7	50	75
0066208	8	.311	7.9	64	95	21 AWG (16/32) 0.50 mm <sup>2</sup>					
0066210	10	.354	9.0	75	112	0066242	2	.323	8.2	62	93
0066212	12	.362	9.2	84	125	0066243	3	.350	8.9	69	102
0066216	16	.402	10.2	101	151	0066244	4	.386	9.8	81	120
0066218	18	.425	10.8	112	167						
24 AWG (14/34) 0.25 mm <sup>2</sup>											
0066232	2	.240	6.1	38	57						
0066233	3	.252	6.4	42	62						
0066234	4	.272	6.9	47	70						
0066235	5	.295	7.5	61	91						

# UNITRONIC® LiYY/ LiYCY

## Multi-Conductor Signal and Control Cable DIN Color Coded

UNITRONIC® LiYY is an unshielded, multi-conductor signal and control cable recommended for use with European designed computers, data transmission and office equipment, process controls and instrumentation.

designed computers, data transmission and office equipment, process controls and instrumentation, where additional EMI protection is required. The braided shield helps to minimize external influences.

UNITRONIC® LiYCY is a shielded, multi-conductor signal and control cable recommended for use with European

### 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



Cable Attributes							
	OR-01		FR-02		FL-01		MP-01

### 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 675
	Test Voltage:	1500V		Approvals:	Based on VDE specifications
					Conforms to CE Low Voltage Directive

# UNITRONIC® LiYY/ LiYCY

Multi-Conductor Signal and Control Cable

DIN Color Coded

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

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
<b>26 AWG (18/38) 0.14 mm<sup>2</sup></b>						<b>22 AWG (7/30) 0.34 mm<sup>2</sup></b>					
28202	2	.126	3.2	9	13	28402	2	.165	4.2	15	22
28203	3	.134	3.4	11	16	28403	3	.173	4.4	21	31
28204	4	.142	3.6	13	19	28404	4	.189	4.8	29	43
28205	5	.154	3.9	15	22	28405	5	.217	5.5	36	54
28207	7	.165	4.2	19	28	28407	7	.232	5.9	42	62
28208	8	.193	4.9	24	35	28408	8	.280	7.1	49	73
28210	10	.205	5.2	28	41	28410	10	.299	7.6	55	82
28212	12	.220	5.6	32	48	28412	12	.307	7.8	69	102
28214	14	.228	5.8	36	53	28414	14	.323	8.2	73	109
28216	16	.240	6.1	40	59	28416	16	.343	8.7	85	127
28220	20	.276	7.0	48	71	28420	20	.378	9.6	107	159
28221	21	.283	7.2	52	77	28421	21	.409	10.4	112	167
28225	25	.307	7.8	59	87	28425	25	.441	11.2	128	190
28228	28	.307	7.8	69	103	28430	30	.457	11.6	152	226
28230	30	.315	8.0	73	108	28432	32	.476	12.1	165	245
28236	36	.339	8.6	85	127	28436	36	.492	12.5	191	284
28237	37	.350	8.9	79	118	28440	40	.531	13.5	213	317
28240	40	.366	9.3	93	139	28450	50	.591	15.0	273	407
28244	44	.378	9.6	103	153	<b>21 AWG (16/32) 0.50 mm<sup>2</sup></b>					
28250	50	.409	10.4	115	171	28502	2	.185	4.7	27	40
28256	56	.421	10.7	126	187	28503	3	.197	5.0	32	47
<b>24 AWG (14/34) 0.25 mm<sup>2</sup></b>						28504	4	.220	5.6	38	56
28302	2	.150	3.8	12	18	28505	5	.240	6.1	44	65
28303	3	.157	4.0	15	22	28507	7	.272	6.9	55	82
28304	4	.169	4.3	18	26	28508	8	.315	8.0	60	90
28305	5	.185	4.7	21	31	28510	10	.339	8.6	79	117
28307	7	.201	5.1	28	42	28512	12	.350	8.9	89	133
28308	8	.244	6.2	33	49	28516	16	.402	10.2	114	170
28310	10	.268	6.8	39	58	28520	20	.449	11.4	144	214
28312	12	.276	7.0	45	67	28525	25	.484	12.3	178	265
28314	14	.287	7.3	51	75	28530	30	.520	13.2	204	304
28316	16	.303	7.7	57	84	28540	40	.622	15.8	263	392
28318	18	.319	8.1	62	93	<b>18 AWG (32/32) 1.00 mm<sup>2</sup></b>					
28320	20	.339	8.6	69	102	28702	2	.220	5.6	37	55
28325	25	.378	9.6	90	134	28703	3	.232	5.9	47	70
28330	30	.406	10.3	104	155	28705	5	.287	7.3	66	98
28332	32	.421	10.7	110	164	<b>16 AWG (30/30) 1.50 mm<sup>2</sup></b>					
28336	36	.437	11.1	122	182	28802	2	.268	6.8	50	74
28337	37	.449	11.4	124	185	28803	3	.283	7.2	60	89
28340	40	.472	12.0	134	200	28804	4	.307	7.8	71	105
28350	50	.508	12.9	173	257						
28361	61	.539	13.7	205	305						

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

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
<b>26 AWG (18/38) 0.14 mm<sup>2</sup></b>						<b>34316</b>					
34302	2	.154	3.9	13	20	34318	18	.287	7.3	70	104
34303	3	.161	4.1	19	28	34320	20	.303	7.7	78	116
34304	4	.169	4.3	22	33	34321	21	.311	7.9	81	121
34305	5	.181	4.6	26	38	34325	25	.331	8.4	100	149
34306	6	.193	4.9	26	38	34328	28	.335	8.5	103	153
34307	7	.193	4.9	33	49	34330	30	.343	8.7	106	158
34308	8	.228	5.8	38	56	34332	32	.354	9.0	110	164
34310	10	.240	6.1	44	66	34336	36	.366	9.3	123	183
34312	12	.248	6.3	52	78	34340	40	.409	10.4	141	210
34314	14	.264	6.7	54	80	34344	44	.421	10.7	151	225
34315	15	.272	6.9	58	86	34350	50	.437	11.1	170	253



# UNITRONIC® LiYY/ LiYCY

Multi-Conductor Signal and Control Cable

DIN Color Coded

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

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
<b>24 AWG (14/34) 0.25 mm<sup>2</sup></b>						<b>21 AWG (16/32) 0.50 mm<sup>2</sup></b>					
34402	2	.177	4.5	22	32	34602	2	.220	5.6	36	54
34403	3	.185	4.7	25	37	34603	3	.232	5.9	45	67
34404	4	.197	5.0	28	41	34604	4	.248	6.3	52	77
34405	5	.220	5.6	34	51	34605	5	.276	7.0	60	90
34406	6	.236	6.0	39	58	34606	6	.299	7.6	70	104
34407	7	.236	6.0	44	65	34607	7	.299	7.6	75	112
34408	8	.280	7.1	49	73	34608	8	.343	8.7	91	135
34410	10	.295	7.5	55	82	34610	10	.366	9.3	108	160
34412	12	.303	7.7	97	145	34612	12	.378	9.6	119	177
34414	14	.315	8.0	67	99	34618	18	.465	11.8	161	239
34415	15	.327	8.3	75	111	34620	20	.476	12.1	185	276
34416	16	.331	8.4	83	124	34625	25	.539	13.7	237	352
34418	18	.346	8.8	96	143	34630	30	.571	14.5	267	397
34420	20	.366	9.3	102	152	<b>18 AWG (32/32) 1.00 mm<sup>2</sup></b>					
34421	21	.378	9.6	108	161	34802	2	.248	6.3	48	72
34425	25	.421	10.7	116	172	34803	3	.268	6.8	60	90
34428	28	.425	10.8	122	181	34804	4	.287	7.3	73	109
34430	30	.433	11.0	127	189	34805	5	.315	8.0	85	126
34432	32	.449	11.4	136	203	34807	7	.339	8.6	115	171
34436	36	.465	11.8	148	220	34810	10	.437	11.1	153	228
34440	40	.500	12.7	167	248	34812	12	.449	11.4	174	259
34444	44	.524	13.3	196	292	34818	18	.528	13.4	261	389
34450	50	.543	13.8	214	318	34825	25	.638	16.2	347	517
34461	61	.591	15.0	245	365	<b>16 AWG (30/30) 1.50 mm<sup>2</sup></b>					
<b>22 AWG (7/30) 0.34 mm<sup>2</sup></b>						34902	2	.295	7.5	60	90
34502	2	.193	4.9	25	37	34903	3	.311	7.9	77	115
34503	3	.201	5.1	33	49	34904	4	.335	8.5	103	153
34504	4	.224	5.7	40	59	34905	5	.366	9.3	118	176
34505	5	.244	6.2	44	66	34907	7	.413	10.5	148	220
34506	6	.268	6.8	53	79	34912	12	.539	13.7	253	376
34507	7	.268	6.8	56	83	34918	18	.642	16.3	349	519
34508	8	.307	7.8	63	94	34925	25	.783	19.9	605	901
34510	10	.327	8.3	87	129						
34512	12	.335	8.5	95	142						
34514	14	.350	8.9	103	154						
34515	15	.362	9.2	104	155						
34516	16	.370	9.4	108	160						
34518	18	.402	10.2	116	173						
34520	20	.421	10.7	129	192						
34521	21	.437	11.1	134	199						
34525	25	.469	11.9	174	259						
34528	28	.472	12.0	188	280						
34530	30	.484	12.3	196	291						
34532	32	.512	13.0	205	305						
34536	36	.528	13.4	222	331						
34540	40	.583	14.8	245	365						
34544	44	.602	15.3	211	314						
34550	50	.626	15.9	290	431						

# UNITRONIC® LiYY (TP)/ LiYCY (TP)

Twisted Paired Signal and Control Cable  
DIN Color Coded

UNITRONIC® LiYY (TP) is an unshielded, multi-paired signal and control cable recommended for use with European designed computers, data transmission and office equipment, process controls and instrumentation. This cable is designed with twisted pairs of conductors, which reduces the electrical interference within the cable.

UNITRONIC® LiYCY (TP) is a shielded, multi-paired signal and control cable recommended for use with European designed computers, data transmission and office equipment, process controls and instrumentation, where additional EMI protection is required. Twisting the conductors in special paired assemblies provides interference suppression in analog or digital signals.

## 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							
	OR-01		FR-02		FL-01		MP-01

## Technical Data:

Minimum Bend Radius  
**UNITRONIC® LiYY (TP):**  
for installation: 5 x cable diameter

**UNITRONIC® LiYCY (TP):**  
for installation: 6 x cable diameter

Temperature Range:  
**UNITRONIC® LiYY (TP):** -30°C to +80°C  
**UNITRONIC® LiYCY (TP):** -30°C to +70°C

Nominal Voltage: 250V

Test Voltage:  
26 AWG 1200V  
> 26 AWG 1500V

Inductance: Nominal 0.65 mH/km

Mutual Capacitance: Cond./cond: 120 nF/km  
Cond./shield: 160 nF/km

Conductor Stranding: Fine Wire

Color Code: DIN 47100, Chart 7, Page 674

Approvals: Based on VDE specifications

Conforms to CE Low Voltage Directive

# UNITRONIC® LiYY (TP)/ LiYCY (TP)

Twisted Paired Signal and Control Cable

DIN Color Coded

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

Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
26 AWG (18/38) 0.14 mm <sup>2</sup>						24 AWG (14/34) 0.25 mm <sup>2</sup>					
35101	2	.189	4.8	17	26	35160	2	.240	6.1	26	38
35102	3	.193	4.9	22	32	35161	3	.244	6.2	32	48
35103	4	.217	5.5	26	39	35162	4	.272	6.9	40	59
35104	5	.224	5.7	31	46	35163	6	.307	7.8	54	80
35105	6	.244	6.2	34	51	35164	8	.362	9.2	66	98
35108	10	.315	8.0	52	78	35165	10	.406	10.3	77	115
35110	12	.323	8.2	63	95	21 AWG (16/32) 0.50 mm <sup>2</sup>					
35111	14	.339	8.6	71	106	35170	2	.311	7.9	48	72
35113	16	.358	9.1	74	111	35171	3	.315	8.0	56	83
35114	18	.378	9.6	80	120	35172	4	.343	8.7	77	115
35118	25	.465	11.8	121	181	35174	8	.480	12.2	138	206
35122	30	.480	12.2	134	200	35175	10	.520	13.2	166	247
35130	50	.622	15.8	260	387						

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

Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
26 AWG (18/38) 0.14 mm <sup>2</sup>						21 AWG (16/32) 0.50 mm <sup>2</sup>					
35131	2	.224	5.7	26	39	35810	2	.339	8.6	62	93
35141	3	.228	5.8	32	48	35811	3	.343	8.7	87	129
35132	4	.244	6.2	36	54	35812	4	.370	9.4	98	146
35133	6	.280	7.1	57	85	35813	6	.437	11.1	133	198
35150	8	.323	8.2	65	97	35814	8	.516	13.1	174	259
35134	10	.343	8.7	74	110	35816	12	.587	14.9	238	354
35135	12	.350	8.9	95	142	35817	16	.650	16.5	308	459
35136	16	.402	10.2	103	154	18 AWG (32/32) 1.00 mm <sup>2</sup>					
35142	20	.445	11.3	124	184	35830	2	.406	10.3	95	142
35137	25	.492	12.5	160	238	35831	3	.409	10.4	116	173
35138	30	.516	13.1	181	270	35832	4	.445	11.3	142	212
24 AWG (14/34) 0.25 mm <sup>2</sup>						35836	5	.465	11.8	179	266
35800	2	.276	7.0	36	54						
35801	3	.280	7.1	44	66						
35802	4	.299	7.6	54	81						
35803	6	.335	8.5	77	115						
35804	8	.406	10.3	87	130						
35805	10	.433	11.0	106	158						
35806	12	.445	11.3	128	190						
35807	16	.492	12.5	160	238						
35808	25	.634	16.1	231	344						

# UNITRONIC® LIHH/ LIHCH

## Halogen Free Signal and Control Cable DIN Color Coded

UNITRONIC® LIHH is an unshielded multi-conductor signal and control cable made with halogen free materials suggested for use with European designed computers, data transmission, office equipment, process controls and instrumentation.

UNITRONIC® LIHCH is a shielded multi-conductor signal and control cable made with halogen free materials suggested for use with European designed computers, data transmission, office equipment, process controls and instrumentation.

### 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							
	OR-01		FR-02		FL-01		MP-01

### 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 675
	Test Voltage:	1200V		Approvals:	Based on VDE specifications
					Conforms to CE Low Voltage Directive

# UNITRONIC® LiHH/ LiHCH

Halogen Free Signal and Control Cable

DIN Color Coded

## UNITRONIC® LiHH: Halogen Free Signal & Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
<b>26 AWG (18/38) 0.14 mm<sup>2</sup></b>						<b>22 AWG (7/30) 0.34 mm<sup>2</sup></b>					
37100	2	.134	3.4	8	12	37140	2	.173	4.4	19	28
37101	3	.142	3.6	10	15	37141	3	.181	4.6	20	30
37102	4	.150	3.8	11	17	37142	4	.197	5.0	27	40
37103	5	.161	4.1	15	22	37143	5	.224	5.7	30	44
37104	6	.173	4.4	17	25	37144	7	.240	6.1	40	60
37105	7	.173	4.4	17	26	37145	8	.287	7.3	44	65
37106	8	.201	5.1	19	29	37146	10	.307	7.8	54	80
37107	10	.213	5.4	24	35	37147	12	.315	8.0	65	97
37108	12	.228	5.8	29	43	<b>21 AWG (16/32) 0.50 mm<sup>2</sup></b>					
37109	20	.283	7.2	49	73	37150	2	.193	4.9	21	31
37110	25	.315	8.0	61	91	37151	3	.205	5.2	25	37
<b>24 AWG (14/34) 0.25 mm<sup>2</sup></b>						37152	4	.228	5.8	30	45
37120	2	.157	4.0	15	22	37153	5	.248	6.3	39	58
37121	3	.165	4.2	17	25	37154	7	.276	7.0	48	72
37122	4	.177	4.5	19	28	37155	12	.358	9.1	79	117
37123	5	.193	4.9	23	34	37156	25	.512	13.0	114	170
37124	6	.209	5.3	26	39	<b>18 AWG (32/32) 1.00 mm<sup>2</sup></b>					
37125	7	.209	5.3	28	42	37170	2	.228	5.8	34	50
37126	8	.252	6.4	34	50	37171	3	.240	6.1	38	57
37127	10	.276	7.0	40	60	37172	4	.260	6.6	45	67
37128	12	.283	7.2	45	67	37173	5	.295	7.5	55	82
37129	16	.311	7.9	57	85	<b>16 AWG (30/30) 1.50 mm<sup>2</sup></b>					
37130	18	.327	8.3	67	100	37180	2	.276	7.0	40	59
37131	25	.386	9.8	94	140	37181	3	.291	7.4	48	72
						37182	4	.315	8.0	58	87

## UNITRONIC® LiHCH: Shielded Halogen Free Signal & Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
<b>26 AWG (18/38) 0.14 mm<sup>2</sup></b>						<b>21 AWG (16/32) 0.50 mm<sup>2</sup></b>					
37302	2	.161	4.1	15	22	37507	7	.276	7.0	49	73
37303	3	.169	4.3	17	25	37508	8	.315	8.0	56	84
37304	4	.177	4.5	19	29	37510	10	.335	8.5	68	101
37305	5	.189	4.8	22	32	37512	12	.343	8.7	95	142
37306	6	.201	5.1	24	35	37516	16	.378	9.6	108	160
37307	7	.201	5.1	26	38	37525	25	.476	12.1	174	259
37308	8	.236	6.0	28	41	<b>18 AWG (32/32) 1.00 mm<sup>2</sup></b>					
37310	10	.248	6.3	39	58	37602	2	.228	5.8	26	38
37312	12	.256	6.5	52	78	37603	3	.240	6.1	32	47
37316	16	.283	7.2	60	90	37604	4	.256	6.5	45	67
37325	25	.343	8.7	100	149	37605	5	.283	7.2	51	76
<b>24 AWG (14/34) 0.25 mm<sup>2</sup></b>						37606	6	.307	7.8	56	84
37402	2	.185	4.7	17	25	37607	7	.307	7.8	61	91
37403	3	.193	4.9	20	30	37608	8	.350	8.9	70	104
37404	4	.205	5.2	24	35	37610	10	.374	9.5	88	131
37405	5	.228	5.8	27	40	37612	12	.386	9.8	119	177
37406	6	.244	6.2	33	49	37618	18	.461	11.7	161	239
37407	7	.244	6.2	35	52	37625	25	.547	13.9	237	352
37408	8	.287	7.3	39	58	<b>16 AWG (30/30) 1.50 mm<sup>2</sup></b>					
37410	10	.303	7.7	54	81	37802	2	.256	6.5	48	72
37412	12	.311	7.9	97	145	37803	3	.276	7.0	60	90
37416	16	.339	8.6	83	124	37804	4	.295	7.5	73	109
37425	25	.429	10.9	116	172	37805	5	.323	8.2	85	126
<b>22 AWG (7/30) 0.34 mm<sup>2</sup></b>						37807	7	.346	8.8	115	171
37502	2	.201	5.1	20	30	<b>16 AWG (30/30) 1.50 mm<sup>2</sup></b>					
37503	3	.209	5.3	24	35	37902	2	.303	7.7	60	90
37504	4	.232	5.9	28	42	37903	3	.319	8.1	77	115
37505	5	.252	6.4	36	53	37904	4	.343	8.7	103	153
37506	6	.276	7.0	40	59	37905	5	.374	9.5	118	176
						37907	7	.421	10.7	148	220

# UNITRONIC® LIHCH (TP)

## Halogen Free Twisted Paired Signal and Control Cable with Shield DIN Color Coded

UNITRONIC® LIHCH (TP) is a multi-paired shielded signal and control cable made with halogen free materials recommended for use with European designed computers, data transmission, office equipment, process controls and

instrumentation. This cable is designed with twisted pairs of conductors, which reduces the electrical interference within the cable.

### 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							
	OR-01		FR-02		FL-01		MP-01

### 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: 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 674
				Approvals:	Based on VDE specifications

Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
<b>26 AWG (18/38) 0.14 mm<sup>2</sup></b>						<b>21 AWG (16/32) 0.50 mm<sup>2</sup></b>					
38302	2	.232	5.9	26	39	38602	2	.346	8.8	62	93
38303	3	.236	6.0	32	48	38603	3	.350	8.9	87	129
38304	4	.252	6.4	36	54	38604	4	.378	9.6	98	146
38306	6	.287	7.3	57	85	38606	6	.445	11.3	133	198
38308	8	.331	8.4	65	97	38608	8	.524	13.3	174	259
38310	10	.350	8.9	74	110	38612	12	.594	15.1	238	354
38312	12	.358	9.1	95	142	38616	16	.657	16.7	308	459
38316	16	.409	10.4	103	154	<b>18 AWG (32/32) 1.00 mm<sup>2</sup></b>					
38320	20	.453	11.5	124	184	38802	2	.413	10.5	95	142
38325	25	.500	12.7	160	238	38803	3	.417	10.6	116	173
<b>24 AWG (14/34) 0.25 mm<sup>2</sup></b>						38804	4	.453	11.5	142	212
38402	2	.283	7.2	36	54	38805	5	.472	12.0	179	266
38403	3	.287	7.3	44	66						
38404	4	.307	7.8	54	81						
38406	6	.343	8.7	77	115						
38408	8	.413	10.5	87	130						
38410	10	.441	11.2	106	158						
38412	12	.453	11.5	128	190						
38416	16	.500	12.7	160	238						
38425	25	.642	16.3	231	344						

# UNITRONIC® CY PiDY (TP)

Multi-Paired, Individually Shielded and Jacketed

Signal and Control Cable with Overall Braid Shield, DIN Color Coded

UNITRONIC®-CY PiDY (TP) is a multi-paired, individually braid shielded and jacketed signal and control cable recommended for use with European designed computers, data transmission and office equipment, process controls and instrumentation, where maximum EMI protection is required.

interference suppression in analog or digital signals. The additional braiding on the individual pairs prevents interference between transmission circuits.





The overall braid shield, combined with the shielded paired construction, provide maximum protection against electrical interference and EMI emissions.

Twisting the conductors in paired assemblies provides










## 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							
	OR-01		FR-02		FL-01		MP-01

## Technical Data:

	Minimum Bend Radius for installation:	6 x cable diameter		Inductance:	Nominal 0.45 mH/km
	Temperature Range:	-30°C to +70°C		Mutual Capacitance:	Cond./cond: 120 nF/km Cond./shield: 160 nF/km
	Nominal Voltage:	350V		Conductor Stranding:	Fine Wire
	Test Voltage:	1200V		Color Code:	DIN 47100, Chart 7, Page 674
				Approvals:	Based on VDE specifications

Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
24 AWG (14/34) 0.25 mm <sup>2</sup>						34255	7	.555	13.1	184	274
34250	2	.366	9.3	75	112	34256	8	.606	15.7	218	325
34251	3	.390	9.8	91	136	34257	10	.673	16.9	230	342
34252	4	.437	10.7	113	168	34258	12	.720	17.4	279	416
34253	5	.465	11.7	135	201	34259	16	.799	19.3	364	542
34254	6	.504	13.1	164	244						

# UNITRONIC® PUR CP

## Multi-Conductor Shielded Signal and Control Cable

### PUR Jacket

UNITRONIC® PUR CP is a multi-conductor shielded signal and control cable designed with a durable PUR jacket. The PUR jacket is oil and scratch resistant making it suitable for use in applications with high mechanical stress and

chemicals. The overall braid shield provides protection against electrical interference and EMI emissions. Recommended for use with computers, data transmission, office equipment and process controls and instruments.

### UNITRONIC® PUR CP Construction:

Finely stranded bare copper, PVC, clear mylar wrap, tinned copper braided shield, gray PUR jacket.



Cable Attributes							
	OR-05		FR-01		FL-02		MP-05

### 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: 120 nF/km Cond./shield: 160 nF/km
	Working Voltage:	250V		Conductor Stranding:	Fine Wire
	Test Voltage:	1500V		Color Code:	DIN 47100, Chart 8, Page 675
				Approvals:	Based on VDE specifications

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
24 AWG (14/34) 0.25 mm <sup>2</sup>						21 AWG (16/32) 0.50 mm <sup>2</sup>					
0032800	2	.177	4.5	24	35	0032820	2	.220	5.6	38	57
0032801	3	.185	4.7	27	40	0032821	3	.232	5.9	47	70
0032802	4	.197	5.0	30	44	0032822	4	.248	6.3	54	80
0032803	5	.220	5.6	37	55	0032823	5	.276	7.0	63	94
0032804	7	.236	6.0	46	68	0032824	7	.299	7.6	77	115
0032805	10	.295	7.5	57	85	0032825	10	.366	9.3	94	140
0032806	12	.303	7.7	61	91	0032826	12	.378	9.6	111	165
22 AWG (7/30) 0.34 mm <sup>2</sup>						19 AWG (24/32) 0.75 mm <sup>2</sup>					
0032810	2	.193	4.9	27	40	0032830	2	.236	6.0	45	67
0032811	3	.201	5.1	35	52	0032831	3	.248	6.3	53	79
0032812	4	.224	5.7	42	63	0032832	4	.276	7.0	64	95
0032813	5	.244	6.2	46	69	0032833	5	.299	7.6	76	113
0032814	7	.268	6.8	58	86	0032834	7	.323	8.2	108	160
0032815	10	.327	8.3	89	133	0032835	10	.413	10.5	129	192
0032816	12	.335	8.5	99	147	0032836	12	.425	10.8	151	225

# UNITRONIC® PUR CP (TP)

## Multi-Paired Shielded Signal and Control Cable

### PUR Jacket





UNITRONIC® PUR CP (TP) is a multi-paired shielded signal and control cable designed with a durable PUR jacket. The PUR jacket is oil and scratch resistant making it suitable for use in applications with high mechanical stress and chemicals. Twisting the conductors into pairs

provides interference suppression in analog or digital signals. The shield also provides extra protection against EMI. Recommended for use with computers, data transmission, office equipment and process controls and instruments.










### UNITRONIC® PUR CP (TP) Twisted Pair Construction:

Finely stranded bare copper, PVC insulation, multi-paired, clear mylar wrap, tinned copper braid, gray PUR jacket



Cable Attributes							
	OR-05		FR-01		FL-02		MP-05

### 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: 120 nF/km Cond./shield: 160 nF/km
	Working Voltage:	250V		Conductor Stranding:	Fine Wire
	Test Voltage:	1500V		Color Code:	DIN 47100, Chart 7, Page 674
				Approvals:	Based on VDE specifications

Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Pairs	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
24 AWG (14/34) 0.25mm <sup>2</sup>						19 AWG (24/32) 0.75 mm <sup>2</sup>					
0032850	2	.276	7.0	36	54	0032870	2	.366	9.3	71	106
0032851	3	.280	7.1	44	66	0032871	3	.370	9.4	94	140
0032852	4	.299	7.6	54	81	0032872	4	.421	10.7	120	179
0032853	5	.311	7.9	65	97	0032873	5	.437	11.1	144	215
0032854	6	.335	8.5	77	115	0032874	6	.476	12.1	165	246
21 AWG (16/32) 0.50 mm <sup>2</sup>											
0032860	2	.339	8.6	62	93						
0032861	3	.343	8.7	87	129						
0032862	4	.370	9.4	98	146						
0032863	5	.406	10.3	116	172						
0032864	6	.437	11.1	133	198						