

# 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.



<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 (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> -30°C to +80°C <b>UNITRONIC® LiYCY (TP):</b> -30°C to +70°C	Conductor Stranding: Fine Wire
Nominal Voltage: 250V	Color Code: DIN 47100, Chart 7, Page 673
Test Voltage: 26 AWG 1200V > 26 AWG 1500V	Approvals: Based on VDE specifications

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## 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	18 AWG (32/32) 1.00 mm <sup>2</sup>				
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