

UNITRONIC® 300/ 300 CY



Multi-Conductor Low Voltage Control & Signal Cable for Industrial Applications



UNITRONIC® 300 is a lead free, rugged multi-conductor low voltage control and signal cable for internal and external wiring of OEM equipment for industrial applications. UNITRONIC® 300 has multiple approvals such as UL Type PLTC, UL CMG, UL Oil Res I, CSA CMG, and CE. PLTC with open wiring approval allows for use in overhead trays eliminating the need for conduit.

With these multiple approvals, the cable can be used in process control equipment, electrical equipment, plant expansion, and other machinery. UNITRONIC® 300 also is UV Resistant and is approved for direct burial and meets Class 1 Div. 2 requirements.

UNITRONIC® 300 CY, a shielded version, is also available.

Open Wiring, No Conduit Necessary
16 & 18 AWG
Per NEC Article 725

UNITRONIC® 300 Construction:

Finely stranded tinned copper conductors; PVC blended insulation; oil resistant gray PVC jacket.

Control Cable (20 AWG - 16 AWG)

UNITRONIC® 300 (UL) TYPE CMG or PLTC 105°C CSA CMG or AWM II A/B 300V pbf(+)

Signal Cable (24 AWG* - 22 AWG)

UNITRONIC® 300 (UL) TYPE CMG or PLTC 105°C CSA CMG or AWM II A/B 300V pbf(+)

UNITRONIC® 300 CY Construction:

Finely stranded tinned copper conductors; PVC blended insulation; overall foil tape wrap; drainwire; tinned copper braid (75% coverage); oil resistant gray PVC jacket.

UNITRONIC® 300 CY (UL) TYPE CMG or PLTC 105°C CSA CMG or AWM II A/B 300V pbf(+)

RoHS Standard:

Cables that meet RoHS do not contain Lead, Cadmium, Hexavalent Chromium, Mercury, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE). RoHS is a European Directive to be met by July 1, 2006.

Jacket is dual printed with AWG/mm² equivalent.

*Higher conductor sizes available upon request. May be subject to 5,000 ft. minimum order.

Cable Attributes							
	OR-02		FR-03		FL-01		MP-03

Technical Data:

<p> Minimum bend radius for installation: shielded: 4 x cable diameter 6 x cable diameter</p> <p> Temperature Range: -25°C to +105°C</p> <p> Nominal voltage: 300V</p> <p> Test voltage: 2000V</p>	<p> Color code: 24 - 22 AWG- Chart 4, Page 673 1 Pair= White paired with Black 20 - 16 AWG- Chart 5, Page 673 1 Pair= Black paired with Red</p> <p> Approvals: UL CMG, PLTC*, Open Wiring**, AWM 2464, Oil Res I CSA CMG/FT4, CSA AWM II A/B NOM SCFI-1994</p> <p>* 24 AWG not PLTC ** Open Wiring for 18 AWG & 16 AWG (22 & 20 AWG Available) Meets NEC Art. 725, 760, & 800. Also Class I Div. 2 (PLTC only) Conforms to CE Low Voltage Directive</p>
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pbf(+)= Meets RoHS Standard- (2002/95/EC) Restriction of Hazardous Substance Directives

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Multi-Conductor Low Voltage Control & Signal Cable for Industrial Applications



UNITRONIC® 300: Multi-Conductor Lead Free Control & Signal 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
24 AWG (19/36) 0.25 mm ²						302008 8 .329 8.4 90 134					
302401TP	1 (pr)	.154	3.9	13	19	302010	10	.379	9.6	96	143
302402	2	.165	4.2	13	19	302015	15	.452	11.5	120	178
302403	3	.172	4.4	15	22	302020	20	.497	12.6	174	259
302404	4	.183	4.7	18	27	302025	25	.554	14.1	238	354
302406	6	.209	5.3	23	34	18 AWG (19/30) 1.00 mm ²					
302408	8	.223	5.7	28	42	301801TP	1 (pr)	.221	5.6	41	61
302410	10	.253	6.4	34	51	301802	2	.241	6.1	41	61
302415	15	.284	7.2	46	69	301803	3	.254	6.5	43	64
302420	20	.321	8.2	58	86	301804	4	.285	7.2	53	79
302425	25	.355	9.0	70	104	301806	6	.333	8.5	69	103
22 AWG (19/34) 0.34 mm ²						301808	8	.358	9.1	94	140
302201TP	1 (pr)	.165	4.2	15	22	301810	10	.437	11.1	131	195
302202	2	.177	4.5	15	22	301815	15	.494	12.5	166	247
302203	3	.185	4.7	19	28	301820	20	.544	13.8	221	329
302204	4	.198	5.0	22	33	301825	25	.629	16.0	275	409
302206	6	.227	5.8	31	46	16 AWG (26/30) 1.50 mm ²					
302208	8	.243	6.2	37	55	301601TP	1 (pr)	.240	6.1	56	83
302210	10	.277	7.0	45	67	301602	2	.263	6.7	56	83
302215	15	.312	7.9	61	91	301603	3	.288	7.3	60	89
302220	20	.353	9.0	78	116	301604	4	.312	7.9	74	110
302225	25	.414	10.5	95	142	301606	6	.366	9.3	110	164
20 AWG (19/32) 0.75 mm ²						301608	8	.417	10.6	164	244
302001TP	1 (pr)	.205	5.2	38	57	301610	10	.481	12.2	180	268
302002	2	.223	5.7	38	57	301615	15	.546	13.9	243	362
302003	3	.235	6.0	40	60	301620	20	.603	15.3	331	475
302004	4	.254	6.5	50	74	301625	25	.696	17.7	409	609
302006	6	.296	7.5	65	97						

UNITRONIC® 300 CY: Shielded Multi-Conductor Lead Free Control & Signal 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
24 AWG (19/36) 0.25 mm ²						302008S 8 .354 9.0 105 156					
302401STP	1 (pr)	.186	4.7	25	37	302010S	10	.426	10.8	107	159
302402S	2	.190	4.8	25	37	302015S	15	.483	12.3	154	229
302403S	3	.197	5.0	27	40	302020S	20	.528	13.4	194	289
302404S	4	.208	5.3	32	48	302025S	25	.585	14.9	245	365
302406S	6	.234	5.9	37	55	18 AWG (19/30) 1.00 mm ²					
302408S	8	.248	6.3	45	67	301801STP	1 (pr)	.258	6.6	50	75
302410S	10	.288	7.3	53	79	301802S	2	.266	6.8	50	75
302415S	15	.319	8.1	66	98	301803S	3	.289	7.3	57	85
302420S	20	.346	8.8	80	119	301804S	4	.310	7.9	70	104
302425S	25	.380	9.7	95	142	301806S	6	.358	9.1	109	162
22 AWG (19/34) 0.34 mm ²						301808S	8	.383	9.7	120	179
302201STP	1 (pr)	.197	5.0	29	43	301810S	10	.468	11.9	146	217
302202S	2	.202	5.1	29	43	301815S	15	.525	13.3	212	315
302203S	3	.210	5.3	33	49	301820S	20	.575	14.6	246	366
302204S	4	.223	5.7	38	57	301825S	25	.660	16.8	301	448
302206S	6	.252	6.4	46	68	16 AWG (26/30) 1.50 mm ²					
302208S	8	.278	7.1	55	82	301601STP	1 (pr)	.289	7.3	68	101
302210S	10	.312	7.9	66	98	301602S	2	.298	7.6	68	101
302215S	15	.347	8.8	84	125	301603S	3	.313	8.0	84	125
302220S	20	.378	9.6	103	153	301604S	4	.337	8.6	121	180
302225S	25	.445	11.3	132	197	301606S	6	.391	9.9	141	210
20 AWG (19/32) 0.75 mm ²						301608S	8	.448	11.4	180	268
302001STP	1 (pr)	.241	6.1	40	60	301610S	10	.512	13.0	210	313
302002S	2	.248	6.3	40	60	301615S	15	.577	14.7	342	509
302003S	3	.260	6.6	42	63	301620S	20	.654	16.6	402	598
302004S	4	.289	7.3	59	88	301625S	25	.727	18.5	495	737
302006S	6	.331	8.4	80	119						