

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-ER/ITC, UL CMG, UL Oil Res I, CSA CMG, and CE. PLTC with ER (Exposed Run) 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 for PLTC approved cables.

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

UNITRONIC® 300 Construction:

Finely stranded tinned copper conductors; PVC blended insulation; 22 & 20 AWG PLTC-ER is PVC/Nylon; oil resistant gray PVC jacket.

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

UNITRONIC® 300 CY Construction:

Finely stranded tinned copper conductors; PVC blended insulation; 22 & 20 AWG PLTC-ER is PVC/Nylon; overall foil tape wrap; drain wire; tinned copper braid (75% coverage); oil resistant gray PVC jacket.

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

Jacket is sequentially marked for quicker installation.

*Higher conductor sizes available upon request.

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

Technical Data:

	Minimum bend radius for installation:	4 x cable diameter
	shielded:	6 x cable diameter
	Temperature Range:	-25°C to +105°C
	Nominal voltage:	300V
	Test voltage:	2000V

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

Approvals: UL CMG, PLTC/ITC* Type ER**, AWM 2464, Oil Res I
CSA CMG/FT4, CSA AWM II A/B
NOM SCFI-1994

* 24 AWG not PLTC/ITC
** Type ER (Exposed Run) for 18 AWG & 16 AWG (3c and higher), and for 22 & 20 AWG (4c and higher)
Meets NEC Art. 725, 760, & 800.
Also Class I Div. 2 (PLTC only)
Conforms to CE Low Voltage Directive

UNITRONIC® 300: Multi-Conductor Control & Signal 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
24 AWG (19/36) 0.25 mm ²						22 AWG (19/34) 0.34 mm ²					
302401TP	1 (pr)	.154	3.9	13	19	312210	10	.331	8.4	45	67
302402	2	.165	4.2	13	19	312215	15	.372	9.4	61	91
302403	3	.172	4.4	15	22	312220	20	.417	10.6	78	116
302404	4	.183	4.7	18	27	312225	25	.454	11.5	95	142
302406	6	.209	5.3	23	34	302201TP	1 (pr)	.165	4.2	15	22
302408	8	.223	5.7	28	42	302202	2	.177	4.5	15	22
302410	10	.253	6.4	34	51	302203	3	.185	4.7	19	28
302415	15	.284	7.2	46	69	302204	4	.198	5.0	22	33
302420	20	.321	8.2	58	86	302206	6	.227	5.8	31	46
302425	25	.355	9.0	70	104	302208	8	.243	6.2	37	55
22 AWG (19/34) 0.34 mm ² (UL ITC & UL PLTC-ER)						302210	10	.277	7.0	45	67
312204	4	.239	6.0	22	33	302215	15	.312	7.9	61	91
312206	6	.273	6.9	31	46	302220	20	.353	9.0	78	116
312208	8	.291	7.4	37	55	302225	25	.414	10.5	95	142

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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
20 AWG (19/32) 0.75 mm² (UL ITC & UL PLTC-ER)				18 AWG (19/30) 1.00 mm²			
312004	4	.261 6.6	50 74	301801TP	1 (pr)	.221 5.6	41 61
312006	6	.300 7.6	65 97	301802	2	.241 6.1	41 61
312008	8	.321 8.1	90 134	301803	3	.254 6.5	43 64
312010	10	.367 9.3	96 143	301804	4	.285 7.2	53 79
312015	15	.414 10.5	120 178	301806	6	.333 8.5	69 103
312020	20	.465 11.8	174 259	301808	8	.358 9.1	94 140
312025	25	.508 12.9	238 354	301810	10	.437 11.1	131 195
20 AWG (19/32) 0.75 mm²				16 AWG (26/30) 1.50 mm²			
302001TP	1 (pr)	.205 5.2	38 57	301815	15	.494 12.5	166 247
302002	2	.223 5.7	38 57	301820	20	.544 13.8	221 329
302003	3	.235 6.0	40 60	301825	25	.629 16.0	275 409
302004	4	.254 6.5	50 74	301601TP	1 (pr)	.240 6.1	56 83
302006	6	.296 7.5	65 97	301602	2	.263 6.7	56 83
302008	8	.329 8.4	90 134	301603	3	.288 7.3	60 89
302010	10	.379 9.6	96 143	301604	4	.312 7.9	74 110
302015	15	.452 11.5	120 178	301606	6	.366 9.3	110 164
302020	20	.497 12.6	174 259	301608	8	.417 10.6	164 244
302025	25	.554 14.1	238 354	301610	10	.481 12.2	180 268
				301615	15	.546 13.9	243 362
				301620	20	.603 15.3	331 475
				301625	25	.696 17.7	409 609

UNITRONIC® 300 CY: Shielded Multi-Conductor 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 mm²				20 AWG (19/32) 0.75 mm²			
302401STP	1 (pr)	.186 4.7	25 37	312020S	20	.468 11.9	194 289
302402S	2	.190 4.8	25 37	312025S	25	.511 13.0	245 365
302403S	3	.197 5.0	27 40	302001STP	1 (pr)	.241 6.1	40 60
302404S	4	.208 5.3	32 48	302002S	2	.248 6.3	40 60
302406S	6	.234 5.9	37 55	302003S	3	.260 6.6	42 63
302408S	8	.248 6.3	45 67	302004S	4	.289 7.3	59 88
302410S	10	.288 7.3	53 79	302006S	6	.331 8.4	80 119
302415S	15	.319 8.1	66 98	302008S	8	.354 9.0	105 156
302420S	20	.346 8.8	80 119	302010S	10	.426 10.8	107 159
302425S	25	.380 9.7	95 142	302015S	15	.483 12.3	154 229
22 AWG (19/34) 0.34 mm² (UL ITC & UL PLTC-ER)				18 AWG (19/30) 1.00 mm²			
312204S	4	.242 6.1	38 57	302020S	20	.528 13.4	194 289
312206S	6	.276 7.0	46 68	302025S	25	.585 14.9	245 365
312208S	8	.294 7.5	55 82	301801STP	1 (pr)	.258 6.6	50 75
312210S	10	.334 8.5	66 98	301802S	2	.266 6.8	50 75
312215S	15	.375 9.5	84 125	301803S	3	.289 7.3	57 85
312220S	20	.420 10.7	103 153	301804S	4	.310 7.9	70 104
312225S	25	.457 11.6	132 197	301806S	6	.358 9.1	109 162
22 AWG (19/34) 0.34 mm²				16 AWG (26/30) 1.50 mm²			
302201STP	1 (pr)	.197 5.0	29 43	301808S	8	.383 9.7	120 179
302202S	2	.202 5.1	29 43	301810S	10	.468 11.9	146 217
302203S	3	.210 5.3	33 49	301815S	15	.525 13.3	212 315
302204S	4	.223 5.7	38 57	301820S	20	.575 14.6	246 366
302206S	6	.252 6.4	46 68	301825S	25	.660 16.8	301 448
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 mm² (UL ITC & UL PLTC-ER)				16 AWG (26/30) 1.50 mm²			
312004S	4	.264 6.7	59 88	301608S	8	.448 11.4	180 268
312006S	6	.303 7.7	80 119	301610S	10	.512 13.0	210 313
312008S	8	.324 8.2	105 156	301615S	15	.577 14.7	342 509
312010S	10	.370 9.4	107 159	301620S	20	.654 16.6	402 598
312015S	15	.417 10.6	154 229	301625S	25	.727 18.5	495 737