

UNITRONIC® 300 F

Multi-Conductor, Foil Shielded

300V Flexible Industrial Signal and Control Cable



The UNITRONIC® 300 Series of signal and control cables have been carefully engineered to provide the highest performance and ease of installation in industrial signal and control applications. Available shielding options provide EMC protection in the harshest industrial environments.

Recommended Applications:

Process Instrumentation, Low Voltage control interconnect.

Application Advantages:

- Extended temperature rating of -25°C to +105°C
- Flexible design for ease of routing
- Suitable for use in cable tray
- Oil and UV resistant (Oil Res I)
- Sequential foot marking for ease of installation

UNITRONIC® 300 F Construction:

Finely stranded tinned copper conductors with drain wire; PVC blended insulation; tri-laminated AMA foil shield (100%); oil resistant gray PVC jacket.

Control Cable (20 AWG - 16 AWG)

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




Signal Cable (28 AWG* - 22 AWG)

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



Cable Attributes, See Page 653

	Oil Resistance: OR-02		Flame Resistance: FR-03
	Motion Type: FL-01		Mechanical Properties: MP-03

Availability:





Standard put-ups are 100ft, 500ft, and 1,000ft.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		Assemblies: Page 627

Technical Data:


 Minimum Bending Radius
- for installation: 4 x cable diameter
- with shield: 6 x cable diameter


 Temperature Range: -25°C to +105°C

 Nominal Voltage: 300V

 Test Voltage: 2000V

 Conductor Stranding: Class 5

 Color Code: 28 - 22 AWG- Chart 4, Page 672
20 - 16 AWG- Chart 5, Page 672

 Approvals: UL: - CMG, PLTC*, Exposed Run**
- AWM 2464 Oil Res I
CSA: - CMG/FT4
- AWM II A/B

* 28 AWG, 26 AWG, 24 AWG not PLTC

** Exposed run for 18 AWG & 16 AWG

Meets NEC Art. 725, 760, & 800. Also Class I Div. 2 (PLTC only)

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UNITRONIC® 300 F: Foil Shielded Multi-conductor Control & Signal Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight		Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
		inches	mm		lbs/mft	kg/km			inches	mm		lbs/mft	kg/km
28 AWG (19/40) 0.80 mm							20 AWG (19/32) 0.75 mm²						
302802F	2	.154	3.9	2	9	13	302002F	2	.230	5.8	11	42	62
302803F	3	.160	4.1	2	12	18	302003F	3	.242	6.1	15	44	65
302804F	4	.169	4.3	3	14	21	302004F	4	.261	6.6	19	54	80
302806F	6	.190	4.8	4	20	30	302006F	6	.313	8.0	26	69	102
302808F	8	.201	5.1	5	21	31	302008F	8	.336	8.5	34	94	139
302810F	10	.226	5.7	6	24	36	302010F	10	.386	9.8	41	100	148
302815F	15	.251	6.4	9	30	44	302015F	15	.457	11.6	60	124	184
302820F	20	.273	6.9	12	37	55	302020F	20	.502	12.7	63	178	264
302825F	25	.312	7.9	15	44	65	302025F	25	.559	14.2	98	242	360
302830F	30	.323	8.2	18	49	73	302030F	30	.582	14.8	116	285	425
302840F	40	.355	9.0	24	62	92	302040F	40	.667	16.9	154	379	564
302850F	50	.414	10.5	30	74	109	302050F	50	.747	19.0	192	473	704
26 AWG (19/38) 0.14mm²							18 AWG (19/30) 1.00 mm²						
302602F	2	.160	4.1	3	13	20	301802F	2	.248	6.3	18	47	70
302603F	3	.166	4.2	4	15	22	301803F	3	.261	6.6	24	49	73
302604F	4	.176	4.5	5	17	25	301804F	4	.292	7.4	30	59	88
302606F	6	.199	5.1	7	21	32	301806F	6	.340	8.6	42	75	112
302608F	8	.211	5.4	8	24	36	301808F	8	.365	9.3	54	100	149
302610F	10	.238	6.0	10	29	43	301810F	10	.442	11.2	66	137	204
302615F	15	.265	6.7	15	37	56	301815F	15	.499	12.7	96	172	256
302620F	20	.299	7.6	19	46	68	301820F	20	.549	14.0	127	227	338
302625F	25	.330	8.4	24	55	81	301825F	25	.634	16.1	157	281	418
302630F	30	.342	8.7	29	64	95	301830F	30	.660	16.8	187	367	547
302640F	40	.377	9.6	38	79	118	301840F	40	.733	18.6	247	488	726
302650F	50	.440	11.2	47	99	147	301850F	50	.823	20.9	307	608	905
24 AWG (19/36) 0.25 mm²							16 AWG (26/30) 1.50 mm²						
302402F	2	.170	4.3	5	15	22	301602F	2	.270	6.9	24	64	95
302403F	3	.177	4.5	6	17	25	301603F	3	.295	7.5	32	68	101
302404F	4	.188	4.8	7	20	29	301604F	4	.319	8.1	40	82	122
302406F	6	.214	5.4	10	25	36	301606F	6	.373	9.5	57	118	176
302408F	8	.228	5.8	13	30	44	301608F	8	.422	10.7	73	172	256
302410F	10	.258	6.6	16	36	53	301610F	10	.486	12.3	89	188	280
302415F	15	.289	7.3	24	48	71	301615F	15	.551	14.0	130	251	374
302420F	20	.326	8.3	31	60	89	301620F	20	.608	15.4	171	339	504
302425F	25	.360	9.2	39	72	106	301625F	25	.701	17.8	212	417	621
302430F	30	.374	9.5	46	89	133	301630F	30	.730	18.5	252	496	739
302440F	40	.413	10.5	61	119	176	301640F	40	.813	20.6	334	659	981
302450F	50	.482	12.2	76	148	220	301650F	50	.915	23.2	415	822	1223
22 AWG (19/34) 0.34 mm²													
302202F	2	.184	4.7	7	17	26							
302203F	3	.192	4.9	9	21	32							
302204F	4	.205	5.2	12	24	36							
302206F	6	.234	5.9	16	33	50							
302208F	8	.250	6.3	21	39	58							
302210F	10	.294	7.5	26	47	70							
302215F	15	.329	8.4	38	63	94							
302220F	20	.360	9.1	49	80	119							
302225F	25	.419	10.6	61	97	145							
302230F	30	.435	11.0	73	120	179							
302240F	40	.479	12.2	97	159	237							
302250F	50	.534	13.6	120	199	296							