

# UNITRONIC® 300 TP

Multi-Pair, Unshielded

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:**

RS-232, Data buses, 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
- All items available from inventory in 100, 500, and 1,000 ft. put ups

**UNITRONIC® 300 TP Construction:**

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

**Control Cable (20 AWG - 18 AWG)**

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



**Signal Cable (24 AWG\* - 22 AWG)**

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



Cable Attributes, See Page 653			Availability:		Complete the installation with:			
	Oil Resistance: OR-02		Flame Resistance: FR-03			SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	Motion Type: FL-01		Mechanical Properties: MP-03			OLFLEX® Tubing: Page 546		Assemblies: Page 627

**Technical Data:**

- |                                       |                    |             |   |
|---------------------------------------|--------------------|-------------|---|
| Minimum Bending Radius - with shield: | 6 x cable diameter | Color Code: | 24 AWG & 22 AWG: Chart 14, Page 677<br>20 AWG & 18 AWG: Chart 13, Page 677                |
| Temperature Range:                    | -25°C to +105°C    | Approvals:  | UL: - CMG, PLTC*, Exposed Run**<br>- AWM 2464 Oil Res I<br>CSA: - CMG/FT4<br>- AWM II A/B |
| Nominal Voltage:                      | 300V               |             |   |
| Test Voltage:                         | 2000V              |             |   |
| Conductor Stranding:                  | Class 5            |             |   |
- \* 24 AWG not PLTC  
\*\* Exposed Run for 18 AWG & 16 AWG (22 & 20 AWG Available)  
Meets NEC Art. 725, 760, & 800. Also Class I Div. 2 (PLTC only)

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
24 AWG (19/36) 0.25 mm <sup>2</sup>							20 AWG (19/32) 0.75 mm <sup>2</sup>						
302401TP	1	.154	3.9	3	13	19	302001TP	1	.205	5.2	8	38	57
302402TP	2	.231	5.9	6	18	27	302002TP	2	.345	8.8	15	50	74
302403TP	3	.243	6.2	9	23	34	302003TP	3	.365	9.3	23	65	97
302406TP	6	.320	8.1	18	44	66	302006TP	6	.492	12.5	46	130	194
302409TP	9	.368	9.3	27	60	90	302009TP	9	.571	14.5	69	180	268
302415TP	15	.471	12.0	45	88	131	302015TP	15	.729	18.5	113	282	419
22 AWG (19/34) 0.34 mm <sup>2</sup>							18 AWG (19/30) 1.00 mm <sup>2</sup>						
302201TP	1	.165	4.2	5	15	22	301801TP	1	.221	5.6	12	41	61
302202TP	2	.252	6.4	9	22	33	301802TP	2	.376	9.6	24	53	79
302203TP	3	.266	6.8	14	31	46	301803TP	3	.419	10.6	36	69	103
302206TP	6	.352	8.9	28	56	84	301806TP	6	.540	13.7	73	146	217
302209TP	9	.426	10.8	42	80	119	301809TP	9	.648	16.5	110	219	326
302215TP	15	.520	13.2	71	118	175	301815TP	15	.803	20.4	182	363	540