

# UNITRONIC® 300 STP

Multi-Pair, Foil Braid 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:**

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 STP Construction:**

Finely stranded tinned copper conductors with drain wire; PVC blended insulation; foil & braid shield (75% coverage); oil resistant gray PVC jacket.



**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. Bulk reels can be cut to length.

**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 - 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<br>** Exposed Run for 18 AWG<br>Meets NEC Art. 725, 760, & 800. Also Class I Div. 2 (PLTC only) |

Part Number	Number of Pairs	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Pairs	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
<b>24 AWG (19/36) 0.25 mm<sup>2</sup></b>							<b>20 AWG (19/32) 0.75 mm<sup>2</sup></b>						
302401STP	1	.181	4.6	7	23	34	302001STP	1	.232	5.9	15	69	102
302402STP	2	.258	6.6	14	30	45	302002STP	2	.372	9.4	32	85	127
302403STP	3	.270	6.9	17	37	55	302003STP	3	.412	10.5	42	108	160
302406STP	6	.347	8.8	29	70	104	302006STP	6	.525	13.3	68	215	320
302409STP	9	.415	10.5	36	94	138	302009STP	9	.604	15.4	93	292	435
302415STP	15	.504	12.8	48	131	195	302015STP	15	.762	19.4	143	451	671
<b>22 AWG (19/34) 0.34 mm<sup>2</sup></b>							<b>18 AWG (19/30) 1.00 mm<sup>2</sup></b>						
302201STP	1	.192	4.9	11	25	38	301801STP	1	.248	6.3	19	70	104
302202STP	2	.279	7.1	23	35	52	301802STP	2	.403	10.2	38	82	122
302203STP	3	.305	7.7	30	48	71	301803STP	3	.452	11.5	51	102	152
302206STP	6	.379	9.6	49	85	126	301806STP	6	.573	14.5	93	219	326
302209STP	9	.459	11.7	54	117	175	301809STP	9	.681	17.3	141	329	490
302215STP	15	.553	14.1	75	165	245	301815STP	15	.836	21.2	240	545	810