

# UNITRONIC® 300 STP

Multi-Pair, 300V Flexible Industrial Communication & Signal Cable; Shielded

LAPP KABEL STUTTGART UNITRONIC® 300 STP



UNITRONIC® 300 STP is a multi-pair, low voltage communication, signal, and control cable with an overall shield for internal and external wiring of OEM equipment for industrial applications. The jacket is very oil resistant and is pressure-extruded for improved flexibility and easier installation. UNITRONIC® 300 STP has an overall foil tape and tinned copper braid shield for maximum RFI & EMI protection.

## Recommended Applications

Process control; electrical equipment; industrial machinery; low-voltage control interconnect

## Approvals



## Construction

**Conductors:** Finely stranded tinned copper

**Insulation:** Blended PVC

**Shielding:** Foil tape and tinned copper braid (75% coverage); drain wire

**Jacket:** Specially formulated PVC; gray

## Application Advantage

- Extended temperature rating of -40°C to +105°C
- Flexible design for ease of routing
- Suitable for use in cable tray
- Oil- and UV-resistant jacket (Oil Res I)
- Sequential foot marking for ease of installation

### Cable Attributes, see page 659



### Similar Cables

- UNITRONIC® 190 CY (TP)
- D 304 OS

### Complete the Installation



## Technical Data

**Minimum Bend Radius:** 6 x cable diameter

**Temperature Range:**  
 - for stationary use: -40°C to +105°C  
 - for flexible use: -25°C to +105°C

**Nominal Voltage:** 300V

**Test Voltage:** 1500V

**Conductor Stranding:** Fine Wire

**Color Code:** Chart 3, page 695  
 - 24 - 22 AWG single pair: Black & white

### Approvals:

UL: CMG per UL 444  
 PLTC-ER per UL 13  
 ITC-ER per UL 2250  
 AWM 2464  
 Attributes: UL Oil Res I  
 -40°C Cold Bend; -25°C Cold Impact  
 Sunlight Resistant  
 Direct Burial  
 NEC: Meets NEC Art. 725 & 800  
 Class 1 Division 2 (PLTC only)  
 Canada: cUL CMG FT4  
 CSA AWM I/II A/B FT1  
 Additional: 24 AWG is not PLTC  
 18 AWG rated PLTC-ER & ITC-ER  
 CE & RoHS

Part Number	Number of Pairs	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Pairs	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
<b>24 AWG (0.24 mm<sup>2</sup>)</b>						<b>20 AWG (0.62 mm<sup>2</sup>)</b>					
302401STP*	1	0.190 4.8	10	24	53112210	302001STP	1	0.248 6.3	18	68	53112210
302402STP	2	0.256 6.5	18	40	53112210	302002STP	2	0.372 9.4	32	86	53112230
302403STP	3	0.268 6.8	21	44	53112210	302003STP	3	0.412 10.5	46	108	53112230
302406STP	6	0.343 8.7	34	71	53112220	302006STP	6	0.524 13.3	72	216	53112240
302409STP	9	0.415 10.5	46	104	53112230	302009STP	9	0.604 15.3	97	293	53112250
302415STP	15	0.504 12.8	68	130	53112240	302015STP	15	0.762 19.4	165	452	53112260
<b>22 AWG (0.38 mm<sup>2</sup>)</b>						<b>18 AWG (1.00 mm<sup>2</sup>)</b>					
302201STP*	1	0.202 5.1	13	26	53112210	301801STP	1	0.266 6.8	26	71	53112210
302202STP	2	0.278 7.1	23	35	53112210	301802STP	2	0.422 10.7	45	82	53112230
302203STP	3	0.305 7.7	26	48	53112220	301803STP	3	0.452 11.5	58	101	53112240
302206STP	6	0.379 9.6	47	84	53112230	301806STP	6	0.574 14.6	103	218	53112250
302209STP	9	0.459 11.7	64	130	53112240	301809STP	9	0.681 17.3	147	328	53112260
302215STP	15	0.553 14.0	96	165	53112250	301815STP	15	0.836 21.2	248	544	53112260
<b>16 AWG (1.32 mm<sup>2</sup>)</b>						<b>16 AWG (1.32 mm<sup>2</sup>)</b>					
						301601STP	1	0.298 7.6	34	68	53112220

\* Pair is black & white

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available, please see our SKINTOP® Section. Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.