

# UNITRONIC® 300 STP

Flexible 300V multi-pair industrial communication & signal cable; shielded

LAPP KABEL STUÏGART 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



Cable attributes		page 648	
OIL	OR-02	FLAME	FR-03
MOTION	FL-01	MECH.	MP-02

## Construction

**Conductors:** finely stranded tinned copper

**Insulation:** blended PVC

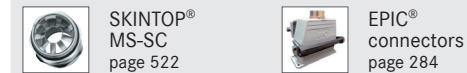
**Shielding:** foil tape and tinned copper braid (75% coverage); drain wire

**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

## 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 680  
 - 24 - 22 AWG single pair: black & white

**Approvals:**

UL: CMG per UL 444  
 PLTC-ER per UL 13 (18 & 16 AWG)  
 PLTC per UL 13 (22 & 20 AWG)  
 ITC-ER per UL 2250 (18 & 16 AWG)  
 ITC per UL 2250 (24 - 20 AWG)  
 AWM 2464

Attributes: UL Oil Res I  
 -40°C cold bend; -25°C cold impact  
 sunlight resistant  
 direct burial  
 NFPA 79

NEC: meets NEC Art. 725 & 800  
 Class 1 Division 2 (PLTC only)

Canada: cUL CMG FT4  
 CSA AWM I/II A/B FT1

Additional: CE & RoHS

Part number	Number of pairs	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
<b>24 AWG (0.24 mm<sup>2</sup>)</b>						
302401STP*	1	0.190	4.8	10	24	53112210
302402STP	2	0.256	6.5	18	40	53112210
302403STP	3	0.268	6.8	21	44	53112210
302406STP	6	0.343	8.7	34	71	53112220
302409STP	9	0.415	10.5	46	104	53112230
302415STP	15	0.504	12.8	68	130	53112240
<b>22 AWG (0.38 mm<sup>2</sup>)</b>						
302201STP*	1	0.202	5.1	13	26	53112210
302202STP	2	0.278	7.1	23	35	53112210
302203STP	3	0.305	7.7	26	48	53112220
302206STP	6	0.379	9.6	47	84	53112230
302209STP	9	0.459	11.7	64	130	53112240
302215STP	15	0.553	14.0	96	165	53112250

\* Pair is black & white

Part number	Number of pairs	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
<b>20 AWG (0.62 mm<sup>2</sup>)</b>						
302001STP	1	0.248	6.3	18	68	53112210
302002STP	2	0.372	9.4	32	86	53112230
302003STP	3	0.412	10.5	46	108	53112230
302006STP	6	0.524	13.3	72	216	53112240
302009STP	9	0.604	15.3	97	293	53112250
302015STP	15	0.762	19.4	165	452	53112260
<b>18 AWG (1 mm<sup>2</sup>)</b>						
301801STP	1	0.266	6.8	26	71	53112210
301802STP	2	0.422	10.7	45	82	53112230
301803STP	3	0.452	11.5	58	101	53112240
301806STP	6	0.574	14.6	103	218	53112250
301809STP	9	0.681	17.3	147	328	53112260
301815STP	15	0.836	21.2	248	544	53112260
<b>16 AWG (1.32 mm<sup>2</sup>)</b>						
301601STP	1	0.298	7.6	34	68	53112220

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