


U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® 300 STP	07.11.2014

Screened control and signal cables with small cross sections and twisted pairs - UL/CSA listed
 Overall braid minimises electrical interference
 Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)



Suitable for outdoor use



Flame-retardant



Oil-resistant



Interference signals



Temperature-resistant



UV-resistant


Application range

Control and signal cables for internal and external wiring
 Process control; electrical equipment; industrial machinery; low-voltage control interconnect
 Wiring of devices, machines and plants intended for export to the North American market or countries where UL-/CSA approved cables are used.
 For the North American market
 Thanks to the DIRECT BURIAL approval, direct burial of versions with the nominal conductor cross sections 18 AWG and 16 AWG is normatively permitted in the USA

Product Make-up

Fine-wire strand made of tinned-copper wires
 Core insulation made of PVC
 TP structure
 Overall foil tape wrapping, drain wire,
 tin-plated copper braiding (75 % coverage)
 Outer sheath made of special PVC compound
 Outer sheath colour: dark grey (RAL 7005)

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Norm references / Approvals

UL: CMG per UL 444; PLTC-ER per UL 13;
 ITC-ER per UL 2250; AWM 2464
 NEC: meets NEC Art. 725 & 800,
 Class 1 Division 2 (PLTC only)
 Canada: c(UL) CMG FT4, CSA AWM I/II A/B FT1
 Oil-resistant according to UL OIL RES I

Product features

PLTC for trays (24 AWG has no PLTC approval)
 PLTC-ER & ITC-ER (Exposed run) for AWG18
 UV-resistant UL SUN RES
 Direct Burial for 18 AWG & 16 AWG for normatively permitted, direct burial in the USA

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths Packaging size: Coil 152 m; Drum 305 m Photographs are not to scale and do not represent detailed images of the respective products.

Technical Data

Core identification code:	Pair 1: black, red Pair 2: black, white Pair 3: black, green Pair 4: black, blue Pair 5: black, yellow Pair 6: black, brown Exception single-paired: black, white
Peak operating voltage:	(not for power applications) 300 V UL/CSA: 300 V
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Minimum bending radius:	Occasional flexing: 15 x outer diameter Fixed installation: 6 x outer diameter
Test voltage:	1500 V
Temperature range:	Occasional flexing: -25°C to +105°C Fixed installation: -40°C to +105°C

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Part number	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® 300 STP				
302402STP	2 x 2 x 24 AWG	6.5	25.5	59
302403STP	3 x 2 x 24 AWG	6.8	31.1	65
302406STP	6 x 2 x 24 AWG	8.7	49.7	106
302201STP	1 x 2 x 22 AWG	5.1	19.1	39
302203STP	3 x 2 x 22 AWG	7.7	38.2	71
302206STP	6 x 2 x 22 AWG	9.6	70.0	125
302002STP	2 x 2 x 20 AWG	9.4	47.7	128
302003STP	3 x 2 x 20 AWG	10.5	68.2	161
302006STP	6 x 2 x 20 AWG	13.3	106.5	321
301801STP	1 x 2 x 18 AWG	6.8	37.8	106
301802STP	2 x 2 x 18 AWG	10.7	66.2	122
301806STP	6 x 2 x 18 AWG	14.6	153.1	324