

UNITRONIC® 300 STP

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 certified cables are used.

For the North American market

Thanks to the DIRECT BURIAL approval, direct burial of versions with the nominal conductor cross section 18 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 jacket: Specially Formulated PVC, dark gray (similar to RAL 7005)

Norm references / Approvals

UL: CMG per UL 444; PLTC-ER per UL 13 (18 AWG); PLTC (not for 24 AWG); ITC-ER per UL 2250 (18 AWG); UL AWM Style 2464

According to NEC/ NFPA 70, 2014 HANDBOOK, ARTICLE 501, II., 501.10, (B), (1), and apart from any kind of "Flexible Connections", suitability for Class I, Division 2 in the USA, and that for all versions with ITC-ER as per NEC 2014 ARTICLE 727.4 and in conjunction with additional UL listed components as well as for all versions with PLTC or PLTC-ER in line with the provisions of NEC 2014 ARTICLE 725 and in mandatory conjunction with tray use and additional, UL listed components

Canada: c(UL) CMG FT4, CSA AWM I/II A/B FT1

Oil-resistant according to UL OIL RES I

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Product features

CMG (for USA and Canada) and PLTC (for USA) for tray use in North America (24 AWG has got no PLTC certification)
PLTC-ER & ITC-ER ("-ER" = Exposed Run: In the USA, unprotected transitions of the cable outside of trays, each transition with a max. length of 1.8 m or 6 ft., according to NEC/ NFPA 70) for 18 AWG
UV-resistant UL SUN RES
DIRECT BURIAL-Zertifizierung for 18 AWG for normatively permitted, direct burial in the USA

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, 24-22 AWG: black, white
Peak operating voltage:	(not for power applications) 300 V UL/CSA: 300 V
Classification:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data 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 (AWM for USA: +80°C) Fixed installation: -40°C to +105°C (AWM for USA: +80°C)

Note

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.



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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