UNITRONIC® 300 STP

Screened control and signal cables with small cross sections and twisted pairs - UL/CSA listed

UNITRONIC® 300 STP: Low-frequency PVC data cable, UL/CSA AWM, CMG, Further Tray Cable listings for unprotected use on Tray, Screened, Twisted Pairs, -25°C/105°C

Info

Other sizes on request
Especially for 20 AWG and 18 AWG: With standard core color code, up to 37 pairs producible/ With non-standard color code, e.g., with green-yellow grounding conductor, up to 50 pairs



Suitable for outdoor use

Flame-retardant

Oil-resistant

Interference signals

Temperature-resistant

UV-resistant

Benefits

Wide application range due to multiple certifications
Cost-saving, easy installation due to omission of closed raceways (suitable for open wiring)
Overall braid minimises electrical
interference
Decoupling of circuits by means of

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twisted-pair (TP) design (crosstalk effects)

Application range

Control and signal cables for internal and external wiring
For the North American market
On the basis of CMG, PLTC or ITC direct laying on cable tray in the USA, in conjunction with -ER (Exposed Run) for unprotected transition sections with a length of not more than 6 ft. each
Thanks to the DIRECT BURIAL approval, direct burial of versions with the nominal conductor cross-section 18 AWG in the USA
Torsion resistant up to ±150 °/m for the drip loop of wind turbine generators

Product features

Oil-resistant according to UL OIL RES I

Norm references / Approvals

USA: (UL) CMG [E130334], (UL) PLTC-ER (18 AWG) [E216027], (UL) PLTC (>24 AWG) [E216027], (UL) ITC-ER (18 AWG) [E196134], UL AWM Style 2464 [E100338], DIR BUR (18 AWG)
CAN: c(UL) CMG FT4 [E130334], CSA AWM I/II A/B FT1

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)

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
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
Torsion movement in WTG:	TW-0 & TW-2, refer to Appendix T0
Minimum bending radius:	Occasional flexing: 15 x outer diameter Fixed installation: 6 x outer diameter
Nominal voltage:	according to UL: 300 V IEC: not for power transmission
Test voltage:	1500 V
Temperature range:	Occasional flexing/ North America: -25 °C to +105 °C (AWM for USA: +80 °C) Fixed installation/ North America: -40 °C to +105 °C (AWM for USA: +80 °C)

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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 and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
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PRODUCT INFORMATION

Article 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	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

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