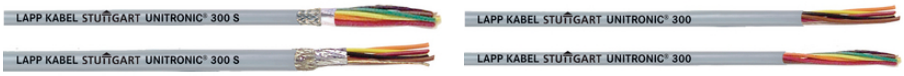
UNITRONIC® 300 / UNITRONIC® 300 S

Control and signal cables with small cross sections - UL/CSA listed

UNITRONIC® 300/300 S: unscreened or screened Low-frequency PVC data cable, UL/CSA AWM, CMG, Further Tray Cable listings for Cable tray installation, -25°C/105°C

Info
Designation of shielded version:
Formerly "UNITRONIC® 300 CY",
now "UNITRONIC® 300 S"
Other sizes on request
Especially for 20 AWG and 18 AWG: With standard core color code, up to 60 conductors producible/ With non-standard color code, e.g., green-yellow grounding conductor, up to 100 cores



- Wind Energy
- Flame-retardant
- Cold-resistant
- Oil-resistant
- Temperature-resistant
- Torsion-resistant
- UV-resistant

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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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Benefits
Wide application range due to multiple certifications
Cost-saving, easy installation due to omission of closed raceways (suitable for open wiring)

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 sections 18 AWG and 16 AWG is normatively permitted 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
Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

Norm references / Approvals
USA: (UL) CMG [E130334], (UL) PLTC-ER (18 AWG + 16 AWG) [E216027], (UL) PLTC (>24 AWG) [E216027], (UL) ITC-ER (18 AWG + 16 AWG) [E196134], UL AWM Style 2464 [E100338], DIR BUR (18 AWG + 16 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 compound
UNITRONIC® 300 S: with overall foil tape wrapping, drain wire,
tin-plated copper braiding (75 % coverage)
Outer jacket: Specially Formulated PVC
Color of the outer jacket: 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:	refer to Appendix T9
Conductor stranding:	Fine wire
Torsion movement in WTG:	TW-0 & TW-2, refer to Appendix T0
Minimum bending radius:	During installation: 4 x cable diameter Screened: 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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Article number	Article designation	Number of cores and AWG size	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® 300					
301602	UNITRONIC® 300	2 x AWG16	6.7	25	83
301802	UNITRONIC® 300	2 x AWG18	6.1	18.3	61
302006	UNITRONIC® 300	6 x AWG20	7.5	29.5	97
302015	UNITRONIC® 300	15 x AWG20	11.5	73.7	178
302020	UNITRONIC® 300	20 x AWG20	12.6	98.1	259
302025	UNITRONIC® 300	25 x AWG20	14.1	122.6	354
302204	UNITRONIC® 300	4 x AWG22	5	13.7	33
302210	UNITRONIC® 300	10 x AWG22	7	34.896	67
302215	UNITRONIC® 300	15 x AWG22	7.9	51.3	91
302220	UNITRONIC® 300	20 x AWG22	9	68.5	116
302225	UNITRONIC® 300	25 x AWG22	10.5	85.6	180
302410	UNITRONIC® 300	10 x AWG24	6.4	21.4	51
UNITRONIC® 300 S					
301602S	UNITRONIC® 300 S	2 x AWG16	7.6	50.6	101
301606S	UNITRONIC® 300 S	6 x AWG16	9.9	105.7	210
301802S	UNITRONIC® 300 S	2 x AWG18	6.8	37.2	75
301803S	UNITRONIC® 300 S	3 x AWG18	7.3	49.1	85
301804S	UNITRONIC® 300 S	4 x AWG18	7.9	59.6	104
301825S	UNITRONIC® 300 S	25 x AWG18	16.8	278.4	448
302002S	UNITRONIC® 300 S	2 x AWG20	6.3	28.3	60
302004S	UNITRONIC® 300 S	4 x AWG20	7.3	40.2	88
302006S	UNITRONIC® 300 S	6 x AWG20	8.4	55.1	119
302206S	UNITRONIC® 300 S	6 x AWG22	6.4	35.7	68

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