

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** 

Last Update (31.12.2023)
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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



### **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

Screened. 6 x outer diamete

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)



### 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.



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
302204	UNITRONIC® 300	4 x AWG22	5	13.7	33
302210	UNITRONIC® 300	10 x AWG22	7	34.896	67
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
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