



UNITRONIC® 300 / UNITRONIC® 300 S

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

UNITRONIC® 300 CY (UL) TYPE CMG or PLTC 105°C CSA CMG or AWM II A/B 300V RoHS

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Info

● **Shielded Version:**
Formerly UNITRONIC® 300 CY,
now UNITRONIC® 300 S

Benefits

- Wide application range due to multiple approvals
- 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
- Process control; electrical equipment; industrial machinery; low-voltage control interconnect
- For the North American market
- Suitable for outdoor use and direct burial

Product features

- PLTC for trays (24 AWG has no PLTC approval)
- PLTC-ER & ITC-ER (Exposed run) for AWG 18 & AWG 16
- UV-resistant UL SUN RES
- Direct Burial for AWG 18 & 16
- Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

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 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 sheath made of special PVC compound
Outer sheath colour: dark grey (RAL 7005)

Technical data

- Core identification code**
refer to Appendix T9
- Conductor stranding**
Fine wire
- Torsion movement in WTG**
TW-0 & TW-1, 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: -25°C to +105°C
Fixed installation: -40°C to +105°C

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	25.0	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	5.0	13.7	33
302210	UNITRONIC® 300	10 x AWG22	7.0	34.8	67
302220	UNITRONIC® 300	20 x AWG22	9.0	68.5	116
302225	UNITRONIC® 300	25 x AWG22	10.5	85.6	142
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

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100kg. 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.

Similar products

- ÖLFLEX® TRAY II refer to page 52
- ÖLFLEX® TRAY II CY refer to page 53

Accessories

- SKINTOP® ST-M refer to page 654
- UNIVERSAL STRIP stripping and cutting tool refer to page 910
- STAR STRIP stripping tool refer to page 910