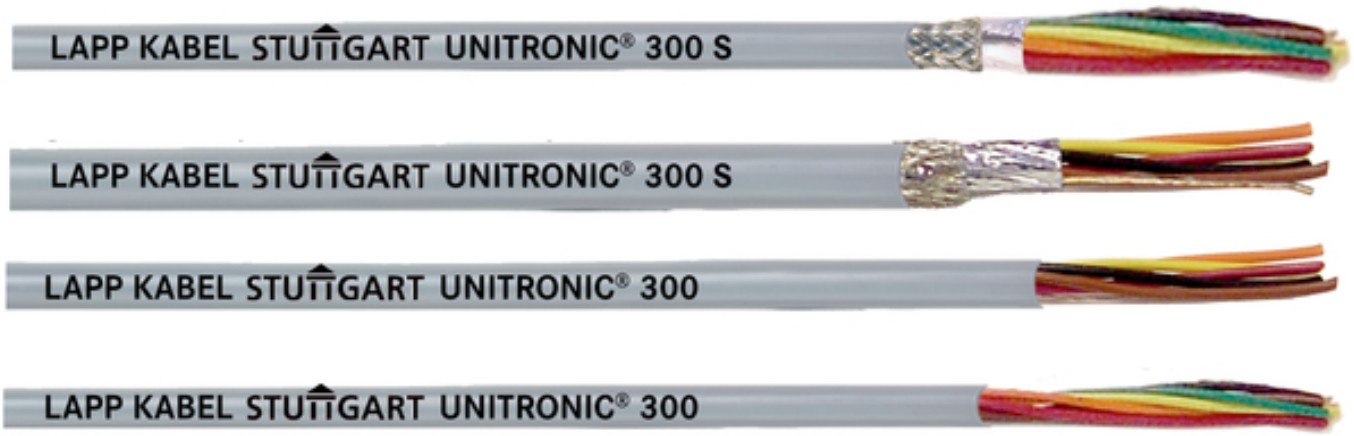
Control and signal cables with small cross sections - UL/CSA listed
Wide application range due to multiple approvals
Cost-saving, easy installation due to omission of closed raceways (suitable for open wiring)



Flame-retardant

Cold-resistant

Oil-resistant

Temperature-resistant

Torsion-resistant

UV-resistant

Wind Energy

Info
Shielded Version:Formerly UNITRONIC® 300 CY, now UNITRONIC® 300 S

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
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

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)

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 features

PLTC for trays (24 AWG has no PLTC approval)
PLTC-ER & ITC-ER (Exposed run) for AWG18 & AWG16
UV-resistant UL SUN RES
Direct Burial for 18 AWG & 16 AWG for normatively permitted, direct burial in the USA
Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

Remark

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-standardlengthsPackaging size: Coil 152 m; Drum 305 mPhotographs are not to scale and do not represent detailed images of the respective products.

Technical Data

Core identification code:	refer to Appendix T9
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
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

Part 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	34.896	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