



# UNITRONIC® 300

UDB302402EN

Date: May 15, 2019

## 1. APPLICATION

UNITRONIC® 300 is a rugged, multi-conductor, low voltage control and signal cable for internal and external wiring of OEM equipment for industrial applications. The jacket is very oil resistant and is pressure extruded for improved flexibility and easier installation.

### Applications:

Process control; electrical equipment; industrial machinery; low-voltage control interconnect.

### Underwriters Laboratories

28 AWG - 24 AWG: Communications and internal or external wiring of electrical and electronic equipment.

22 AWG - 20 AWG: Power Limited and Instrumentation Tray; Communication and internal or external wiring of electrical and electronic equipment.

18 AWG - 16 AWG: Power Limited (Exposed Run) and Instrumentation Tray; Communication and internal or external wiring of electrical and electronic equipment.

### Canadian Standards

For Communications, Appliance Wiring Material and internal or external wiring of electrical and electronic equipment applications.

## 2. CABLE DESCRIPTION

- Tinned copper fine wire
- Specially Blended PVC insulation
- Color coded conductors
- Gray (RAL 7001) UV, oil and flame resistant Specially Formulated PVC jacket

## 3. TECHNICAL DATA

Conductor Stranding      28 AWG (0,1 mm<sup>2</sup>) to 18 AWG (1,0 mm<sup>2</sup>): 19 - strand  
                                   16 AWG (1,32 mm<sup>2</sup>): Class K

Design / Make-up      Cable is designed in accordance with the requirements of UL Standards 13, 2250 and 444; and with CSA standards C22.2 No. 214 & No. 210

Insulation      Specially Blended PVC insulation

Color Code      28 AWG - 22 AWG: Lapp USA Color Chart 4  
                           20 AWG - 16 AWG: Lapp USA Color Chart 5

Outer Sheath      Specially Formulated PVC jacket

Nominal Voltage      UL / CSA: 300V  
                           IEC: Not for power applications

Test Voltage      1500V

Min Bend radius      For installation: 4 x OD

Temperature Range      For stationary use: -40°C to +105°C  
                           For flexible use: -25°C to +105°C

Cable Attributes      OR-02, FR-03, WT-02, MP-02  
                           Sunlight resistant (22 AWG - 20 AWG), Direct Burial (18 AWG - 16 AWG)

AbN  
automation

**UNITRONIC® 300****UDB302402EN****Date:** May 15, 2019**Approvals**

UL AWM 2464 (Appliance Wiring Material) per UL 758  
UL PLTC (Power Limited Tray Cable) –ER\* (Exposed Run) per UL 13  
(22 AWG - 16 AWG)  
UL ITC (Instrumentation Tray Cable) per UL 2250  
(22 AWG - 16 AWG)  
UL CMG (Communications Cables) per UL 444  
CSA CMG per CSA C22.2 No. 214  
CSA AWM I/II A/B FT4 per CSA C22.2 No. 210  
\* For –ER: 18 AWG & 16 AWG and 3 conductors or more

**Additional**

NEC Article 725 (PLTC), 727 (ITC) and 800 (CMG)  
NFPA 79  
RoHS directive