UNITRONIC® 300 S

UDB302402SEN
Date: October 30, 2026

1. APPLICATION

UNITRONIC® 300 S 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. The shield consists of a foil tape and tinned copper braid for maximum RFI & EMI protection.

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
- Overall Foil with TC Drain wire and TC Braid Shield
- Gray (RAL 7001) UV, oil and flame resistant Specially Formulated PVC jacket

3. TECHNICAL DATA

Conductor Stranding	28 AWG (0,1 mm²) to 18 AWG (1,0 mm²): 19 - strand 16 AWG (1,32 mm²): 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: 20 AWG - 16 AWG:	Lapp USA Color Chart 4 Lapp USA Color Chart 5
Shield	Tri-laminated Foil with Tinned Copper Drain Wire and Tinned Copper Braid Shield (75% coverage)	
Outer Sheath	Specially Formulated PVC jacket	
Nominal Voltage	UL / CSA: IEC:	300V Not for power applications
Test Voltage	1500V	
Min Bend radius	For installation:	6 x OD

This data sheet contains the latest product specification information available. Data sheet is subject to change without prior notice.

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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 - 16 AWG), Direct Burial (18 AWG - 16 AWG)	
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 c(UL) CMG per UL 444 & 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 UKCA	

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