UNITRONIC® 300 STP

UDB302401STPEN
Date: October 30, 2026

1. APPLICATION

UNITRONIC® 300 STP is a rugged, multi-pair, 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 drain wire for RFI & EMI protection.

Applications:

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

Underwriters Laboratories

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
- Foil tape and tinned copper braid
- TC Drain wire
- Gray (RAL 7001) UV, oil and flame resistant Specially Formulated PVC jacket

3. TECHNICAL DATA

Conductor Stranding	24 AWG (0,24 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	
Twisted Pair	2 conductors cabled together	
Color Code	24 AWG - 22 AWG single pair: Black & White 24 AWG - 16 AWG: Lapp USA Color Chart 3	
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	

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

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Min Bend radius	For installation:	6 x OD
Temperature Range	For stationary use: For flexible use:	-40°C to +105°C -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)	
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 2 Pairs or more	
Additional	NEC, Article 725 (PLTC), 727 (ITC) and 800 (CMG) NFPA 79 RoHS directive UKCA	

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