

ETHERLINE® TRAY CAT. 7

UDB2170472EN

Date: February 22, 2024

1. APPLICATION

ETHERLINE® TRAY CAT.7 (bandwidth up to 600 MHz) is designed for stationary applications with class “F” performance and maximum transfer rate (IEEE 802.3) of 10 GBit/s up to 328 feet. Pairs are individually foil shielded with and overall braid shield; offering excellent shielding properties based on IEC 61156-5 and can be used in areas where reliable transmission is key including EtherNet/IP, Profinet with 4 pairs, EtherCAT, Power over Ethernet (IEEE 802.3af) and Power over Ethernet Plus (802.3at). Meets or exceeds the requirements for Cat. 6A per ANSI/TIA 568.2-D.

Applications:

Flexible applications, cable trays, industrial machinery, commercial and plant infrastructure

Underwriters Laboratories

For Tray use in power limited applications and internal or external wiring of electrical and electronic equipment.

Canadian Standards

For use as communications control, Appliance Wiring Material and internal or external wiring of electrical and electronic equipment applications.

2. CABLE DESCRIPTION

- Bare copper Solid strand
- Foam PE insulation
- 4 individually shielded twisted pairs
- Color coded conductors
- Overall TC Braid Shield
- Green (RAL 6018) UV and flame resistant specially formulated PVC jacket

3. TECHNICAL DATA

Conductor Stranding	22 AWG (0,34 mm ²): Solid Strand
Design / Make-up	Cable is designed in accordance with the requirements of UL Standards 13 and 444; and with CSA standard C22.2 No. 214
Insulation	Foam Polyethylene insulation Nominal Insulated Conductor OD: .062”
Shielded twisted Pairs	2 conductors cabled together with foil shield
Color Code	<u>Pair 1:</u> White & Blue <u>Pair 2:</u> White & Orange <u>Pair 3:</u> White & Green <u>Pair 4:</u> White & Brown
Shield	Tinned Copper Braid Shield (80% coverage)
Outer Sheath	Specially formulated PVC jacket Nominal Jacket Wall Thickness: .040” Nominal Overall Cable OD: .354”
Nominal Voltage	UL/CSA: 300V UL/CSA AWM: 600V IEC: Not for power applications

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Test Voltage	1500V
Min Bend radius	For stationary use: 10 x Cable OD For flexible use: 15 x Cable OD
Temperature Range	For stationary use: -40°C to +80°C For flexible use: -20°C to +80°C
Cable Attributes	OR-03, FR-03, FL-01, MP-02 Sunlight resistant
Approvals	UL AWM 2570 (Appliance Wiring Material) per UL 758 UL PLTC-ER (Power Limited Tray Cable) per UL 13 UL CMR, CMG (Communications Cables) per UL 444 c(UL) CMR, CMG per CSA C22.2 No. 214 cRU AWM II A/B FT4 per CSA C22.2 No. 210
Additional	NEC Article 725 (PLTC), 800 (CMG), 501 (Class 1 Division 2) NFPA 79 RoHS directive