

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

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|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 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 |

AbN
automation



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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 cRUE 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 |