



**Product:** [M39037](#) 

AUDIO, 50C #24, Str, PVC, Semi Rigid, 300 V, CMG 75C, AWM/STYLE 2464 80C, CSA C(UL) TYPE CMG, CSA FT4

## Product Description

AUDIO, 50 Conductor 24 AWG (7/32) TC - Tinned Copper, PVC, Semi Rigid Insulation, Overall Aluminum/Polyester Shield, Slate PVC Outer Jacket, CMG 75C, AWM/STYLE 2464 80C, CSA C(UL) TYPE CMG, CSA FT4 C(UL) TYPE CMG, FT4 UL FT4; CSA FT4

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Data, communication, audio, and low-level signal transmission; industrial networking, serial communication, control panels, automation equipment, and instrumentation systems. |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Element      | No. of Elements | Size   | Stranding | Material           |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 50              | 24 AWG | 7x32      | TC - Tinned Copper |

#### Insulation

| Element      | Material                                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|------------------------------------------|--------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor(s) | SR-PVC - Polyvinyl Chloride (Semi-Rigid) | 0.010 in (0.25 mm) | 0.044 in (1.1 mm)        | Black, White, Red, Green, Orange, Blue, White/Black, Red/Black, Green/Black, Orange/Black, Blue/Black, Black/White, Red/White, Green/White, Blue/White, Black/Red, White/Red, Orange/Red, Blue/Red, Red/Green, Orange/Green, Black/White/Red, White/Black/Red, Red/Black/White, Green/Black/White, Orange/Black/White, Blue/Black/White, Black/Red/Green, White/Red/Green, Red/Black/Green, Green/Black/Orange, Orange/Black/Green, Blue/White/Orange, Black/White/Orange, White/Red/Orange, Orange/White/Blue, White/Red/Blue, Black/White/Green, White/Black/Green, Red/White/Green, Green/White/Blue, Orange/Red/Green, Blue/Red/Green, Black/White/Blue, White/Black/Blue, Red/White/Blue, Green/Orange/Red, Orange/Red/Blue, Blue/Red/Orange, Black/Orange/Red |

#### Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (7x32) TC |

#### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter      |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.045 in (1.1 mm) | 0.456 in (11.6 mm) |

Overall Cable Diameter (Nominal): 0.456 in (11.6 mm)

### Electrical Characteristics

#### Electricals

| Element      | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Inductance        |
|--------------|-------------------------------|-------------------------------------------------|------------------------|
| Conductor(s) | 31 pF/ft (100 pF/m)           | 56 pF/ft (180 pF/m)                             | 0.19 µH/ft (0.62 µH/m) |

Nom Outer Shield DCR: 134 Ohm/1000ft (440 Ohm/km)

#### Voltage

| UL Voltage Rating     |
|-----------------------|
| 300 V (CMG, AWM 2464) |

### Mechanical Characteristics

#### Temperature

| UL Temperature | Operating |
|----------------|-----------|
|----------------|-----------|

|      |                |
|------|----------------|
| 80°C | -20°C To +80°C |
|------|----------------|

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.6 in (91 mm)  | 3.6 in (91 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 64 lbs (29 kg) |
|--------------------|----------------|

Standards and Compliance

|                                  |                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor                                                                                                               |
| Sustainability:                  | CA Prop 65                                                                                                           |
| Flammability / Reaction to Fire: | UL1685 FT4 Loading, FT4                                                                                              |
| NEC / UL Compliance:             | Article 800, CMG                                                                                                     |
| AWM Compliance:                  | AWM 2464                                                                                                             |
| CEC / C(UL) Compliance:          | CMG                                                                                                                  |
| European Directive Compliance:   | EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance:        | UKCA Mark                                                                                                            |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                      |

Product Notes

|        |                                                                                                                  |
|--------|------------------------------------------------------------------------------------------------------------------|
| Notes: | Alpha Wire - * P/N M39037 50C 24 AWG EXXXXX (UL) TYPE CMG 75C OR AWM 2464 80C 300V OR C(UL) TYPE CMG FT4 CE ROHS |
|--------|------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.25 Revision Date: 06-30-2026 |
|----------------------|-------------------------------------------------|

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