



Product: [XM1203K](#) 

INDUSTRIAL, 3C #12, Str, PVC/NYLON, 600/1000 V, THWN-2 90C, MTW 90C, TC 90C, EXPOSED RUN, SUN RES, OIL RES I, WTTTC 90C, CSA C(RU) AWM I/II A/B, CSA FT4

Product Description

INDUSTRIAL, 3 Conductor 12 AWG (168(7x24)/34) BC - Bare Copper, PVC/NYLON Insulation, Black PVC Outer Jacket, THWN-2 90C, MTW 90C, TC 90C, EXPOSED RUN, SUN RES, OIL RES I, WTTTC 90C, CSA C(RU) AWM I/II A/B, CSA FT4 C(RU) AWM I/II A/B, 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) | 3 | 12 AWG | 168x34 | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|--|--------------------|--------------------------|--------------------------------|
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.016 in (0.41 mm) | 0.146 in (3.71 mm) | Green/Yellow, Black#1, Black#2 |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.050 in (1.3 mm) | 0.434 in (11.0 mm) |

Overall Cable Diameter (Nominal): 0.434 in (11.0 mm)

Electrical Characteristics

Electricals

| Element | Nom. Capacitance Cond-to-Cond | Nom. Inductance |
|--------------|-------------------------------|----------------------------------|
| Conductor(s) | 33 pF/ft (110 pF/m) | 0.16 μ H/ft (0.52 μ H/m) |

Voltage

| UL Voltage Rating | Voltage Rating |
|----------------------------|-----------------|
| 600 V (TC), 1000 V (WTTTC) | 600 V (CSA AWM) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating | Installation |
|----------------|----------------|---------------|
| 90°C | -30°C To +90°C | -5°C To +90°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.6 in (66 mm) | 3.5 in (89 mm) |

Max. Pull Tension: 157 lbs (71.2 kg)

Standards and Compliance

Environmental Suitability: Indoor, Outdoor, Sunlight Resistance, Oil Resistance

| | |
|----------------------------------|--|
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL1685 FT4 Loading, FT4 |
| NEC / UL Compliance: | Article 336, MTW, TC |
| AWM Compliance: | AWM I/II A/B |
| 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

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|--------|---|
| Notes: | Alpha Wire -* P/N XM1203K 3C 12 AWG THWN-2 SERIES XM (UL) WTTTC 90C WET/DRY 1000V OR (UL) TC-ER 90C WET/DRY 600V SUN RES DIR BUR OIL RES I OR MTW 12 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) |
|--------|---|

History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.15 Revision Date: 06-30-2026 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length |
|---------------|--------------|---------------|--------|
| XM1203K BK199 | Green/Yellow | Cut to Length | 1 ft |

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