



Product: [XM0803K](#) 

INDUSTRIAL, 3C #8, Str, PVC/NYLON, 600/1000 V, THWN-2 90C, MTW 90C, TC 90C, EXPOSED RUN, SUN RES, OIL RES I, WTTC 90C, CSA C(RU) AWM I/II A/B, CSA FT4

Product Description

INDUSTRIAL, 3 Conductor 8 AWG (168(7x24)/30) BC - Bare Copper, PVC/NYLON Insulation, Black PVC Outer Jacket, THWN-2 90C, MTW 90C, TC 90C, EXPOSED RUN, SUN RES, OIL RES I, WTTC 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.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	8 AWG	168x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.0320 in (0.813 mm)	0.243 in (6.17 mm)	Green/Yellow, Black#1, Black#2

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.065 in (1.7 mm)	0.674 in (17.1 mm)

Overall Cable Diameter (Nominal):	0.674 in (17.1 mm)
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Electrical Characteristics

Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Inductance
Conductor(s)	32 pF/ft (100 pF/m)	0.16 µH/ft (0.52 µH/m)

Voltage

UL Voltage Rating	Voltage Rating
600 V (TC), 1000 V (WTTC)	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.
6.7 in (170 mm)

Max. Pull Tension:	396 lbs (180 kg)
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Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance
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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
CEC / C(UL) Compliance:	.
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 XM0803K 3C 8 AWG THWN-2 SERIES XM (UL) WTTC 90C WET/DRY 1000V OR (UL) TC-ER 90C WET/DRY 600V SUN RES DIR BUR OIL RES I OR MTW 8 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.17 Revision Date: 08-29-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
XM0803K BK199	Black	Cut to Length	1 ft

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