



**Product:** [M3830](#) 

CONTROL, 5C #16, Str, PVC/NYLON, 600 V, TC 90C, SUN RES, DIRECT BURIAL

## Product Description

CONTROL, 5 Conductor 16 AWG (77.0192) BC - Bare Copper, PVC/NYLON Insulation, Black PVC Outer Jacket, TC 90C, SUN RES, DIRECT BURIAL

## 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)	5	16 AWG	7x25	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)	0.100 in (2.54 mm)	Black, Red, Blue, Orange, Yellow

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.368 in (9.35 mm)

Overall Cable Diameter (Nominal): 0.368 in (9.35 mm)

### Electrical Characteristics

#### Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Inductance
Conductor(s)	27 pF/ft (89 pF/m)	0.18 $\mu$ H/ft (0.59 $\mu$ H/m)

#### Voltage

UL Voltage Rating
600 V (TC)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
90°C	-25°C To +90°C

#### Bend Radius

Stationary Min.
3.7 in (94 mm)

Max. Pull Tension: 60 lbs (27 kg)

### Standards and Compliance

Environmental Suitability: Outdoor, Sunlight Resistance, Burial

Sustainability:	CA Prop 65
NEC / UL Compliance:	Article 336, TC
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), 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 M3830 5C 16 AWG EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET SUN RES DIR BUR CE ROHS
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## History

Update and Revision:	Revision Number: 0.121 Revision Date: 06-30-2026
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length
M3830 BK005	Black	Reel	100 ft
M3830 BK001	Black	Reel	1,000 ft

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