



Product: [5070/40C](#) 

XTRAGUARD 1, 40C #18, Str, PVC, 300 V, AWM/STYLE 2464 80C, CM 105C, VW-1, AWM/STYLE 1569 105C, AWM/STYLE 2517 105C, SUN RES, CSA C(UL) TYPE CMG, CSA FT4

Product Description

XTRAGUARD 1, 40 Conductor 18 AWG (16/30) TC - Tinned Copper, PVC Insulation, Slate PVC Outer Jacket, AWM/STYLE 2464 80C, CM 105C, VW-1, AWM/STYLE 1569 105C, AWM/STYLE 2517 105C, SUN RES, CSA C(UL) TYPE CMG, CSA FT4 C(UL) TYPE CMG, FT4 UL FT4, VW-1; CSA FT4; EN 60332-1 Flame Behavior; EN 60332-2 Flame Behavior

Technical Specifications

Product Overview

Suitable Applications:	Industrial control systems, raceways, cable trays, and ducts; instrumentation and control circuits; analog and digital signals (4–20 mA, 0–10 V); PLC and DCS systems; sensors, encoders, solenoids, valves, actuators, and positioners.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	40	18 AWG	16x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.016 in (0.41 mm)	0.079 in (2.0 mm)	Black, Red, White, Green, Orange, Blue, Brown, Yellow, Violet, Slate, Pink, Tan, Red/Green, Red/Yellow, Red/Black, White/Black, White/Red, White/Green, White/Yellow, White/Blue, White/Brown, White/Orange, White/Slate, White/Violet, White/Black/Red, White/Black/Green, White/Black/Yellow, White/Black/Blue, White/Black/Brown, White/Black/Orange, White/Black/Slate, White/Black/Violet, White/Black/Black, White/Red/Black, White/Red/Red, White/Red/Green, White/Red/Blue, White/Red/Brown, White/Red/Violet, White/Green/Black

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	0.688 in (17.5 mm)	Yes

Overall Cable Diameter (Nominal):	0.688 in (17.5 mm)
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Electrical Characteristics

Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Inductance
Conductor(s)	30 pF/ft (98 pF/m)	0.18 μH/ft (0.59 μH/m)

Voltage

UL Voltage Rating
300 V (CMG, CM, AWM 2464, AWM 2517)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-30°C To +105°C

Bend Radius

Stationary Min.	Installation Min.
3.4 in (86 mm)	3.4 in (86 mm)

Max. Pull Tension:	818 lbs (371 kg)
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Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, IEC 60332-1-2, IEC 60332-2-2
NEC / UL Compliance:	Article 800, CMG, CM
AWM Compliance:	AWM 2464AWM 2517
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 5070/40C 40C 18 AWG XTRAGUARD(R) 1 (UL) TYPE CM 105C SUN RES OR AWM 2464 80C 300V OR AWM 2517 105C 300V VW-1 OR C(UL) TYPE CMG 105C FT4 CE ROHS OIL RESISTANT (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.132 Revision Date: 06-30-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
5070/40C SL005	Black	Reel	100 ft
5070/40C SL001	Black	Reel	1,000 ft

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