



Product: [5414](#) 

XTRAGUARD 1, 4C #20, Str, PVC, 600 V, AWM/STYLE 2501 105C, VW-1, AWM/STYLE 1015 105C, MTW 90C, MTW 90C, AWM/STYLE 20811 105C, CSA C(RU) AWM I/II A/B, CSA FT4, CSA TEW

Product Description

XTRAGUARD 1, 4 Conductor 20 AWG (10/30) TC - Tinned Copper, PVC Insulation, Slate PVC Outer Jacket, AWM/STYLE 2501 105C, VW-1, AWM/STYLE 1015 105C, MTW 90C, MTW 90C, AWM/STYLE 20811 105C, CSA C(RU) AWM I/II A/B, CSA FT4, CSA TEW C(RU) AWM I/II A/B, FT4, TEW UL FT4, VW-1; CSA FT4; EN 60332-1 Flame Behavior; EN 60332-2 Flame Behavior

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)	4	20 AWG	10x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.033 in (0.84 mm)	0.102 in (2.59 mm)	Black, Brown, Red, Orange

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.377 in (9.58 mm)	Yes

Overall Cable Diameter (Nominal):	0.377 in (9.58 mm)
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Electrical Characteristics

Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Inductance
Conductor(s)	20.9 pF/ft (68.6 pF/m)	0.24 μH/ft (0.79 μH/m)

Voltage

UL Voltage Rating	Voltage Rating
600 V (MTW, AWM 20811, AWM 2501)	600 V (CSA AWM)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.
3.8 in (97 mm)

Max. Pull Tension:	38 lbs (17 kg)
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Standards and Compliance

Environmental Suitability:	Indoor, Outdoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, IEC 60332-1-2, IEC 60332-2-2
NEC / UL Compliance:	MTW
AWM Compliance:	AWM 2501AWM 20811, 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

Notes:	Alpha Wire -* P/N 5414 4C 20 AWG XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 105C 600V OR AWM 20811 105C 600V VW-1 OR CRU AWM I/II A/B 105C 600V FT4 CE ROHS SUNLIGHT RESISTANT OIL RESISTANT (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.72 Revision Date: 06-30-2026
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Part Numbers

Variants

Item #	Color
5414 SL005	Black

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