



**Product:** [25168](#) 

XTRAGUARD 2, 8C #18, Str, PVC, 300 V, AWM/STYLE 20668 90C, VW-1, AWM/STYLE 1569 105C, CSA C(RU) AWM I/II A/B, CSA FT1

## Product Description

XTRAGUARD 2, 8 Conductor 18 AWG (16/30) TC - Tinned Copper, PVC Insulation, Overall Aluminum/Polyester Shield, Slate Polyurethane (TPU) Outer Jacket, AWM/STYLE 20668 90C, VW-1, AWM/STYLE 1569 105C, CSA C(RU) AWM I/II A/B, CSA FT1 C(RU) AWM I/II A/B, FT1 UL FT1, VW-1; CSA FT1

## 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)	8	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

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Bi-Laminate (Alum+Poly)	100%	18 AWG (16x30) TC
Braid	Tinned Copper (TC)	70%	

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PUR - Polyurethane	0.032 in (0.81 mm)	0.360 in (9.14 mm)	Yes

Overall Cable Diameter (Nominal):	0.360 in (9.14 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance
Conductor(s)	45 pF/ft (150 pF/m)	81 pF/ft (270 pF/m)	0.18 μH/ft (0.59 μH/m)

Nom Outer Shield DCR:	227 Ohm/1000ft (745 Ohm/km)
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#### Voltage

UL Voltage Rating	Voltage Rating
300 V (AWM 20668)	300 V (CSA AWM)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
105°C	-30°C To +90°C

## Bend Radius

### Stationary Min.

3.6 in (91 mm)

Max. Pull Tension: 36 lbs (16 kg)

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT1 Loading, FT1
AWM Compliance:	AWM 20668, AWM I/II A/B
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 25168 8C 18 AWG XTRAGUARD(R) 2 RU AWM 20668 VW-1 OR CRU AWM I/II A/B 90C 300 VOLTS FT1 CE ROHS (SEQ FOOTAGE)

## History

Update and Revision: Revision Number: 0.119 Revision Date: 06-30-2026

## Part Numbers

### Variants

Item #	Color	Putup Type	Length
25168 BK199	Black	Cut to Length	1 ft

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