



**Product:** [25158](#) 

XTRAGUARD 2, 8C #20, 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 20 AWG (7/28) 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	20 AWG	7x28	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.016 in (0.41 mm)	0.070 in (1.8 mm)	Black, Red, White, Green, Orange, Blue, Brown, Yellow

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC
Braid	Tinned Copper (TC)	70%	

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PUR - Polyurethane	0.032 in (0.81 mm)	0.330 in (8.38 mm)	Yes

Overall Cable Diameter (Nominal):	0.330 in (8.38 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)	39 pF/ft (130 pF/m)	70 pF/ft (230 pF/m)	0.19 µH/ft (0.62 µH/m)

Nom Outer Shield DCR:	249 Ohm/1000ft (817 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.

3.3 in (84 mm)

Max. Pull Tension: 88 lbs (40 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 25158 8C 20 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

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