



**Product:** [5580C](#) 

XTRAGUARD 1, 5C #22, Str, PVC, Semi Rigid, 300 V, AWM/STYLE 2343 80C, CM 105C, VW-1, AWM/STYLE 10002 105C, AWM/STYLE 2517 105C, SUN RES, CSA CMG, CSA FT4

## Product Description

XTRAGUARD 1, 5 Conductor 22 AWG (7/30) TC - Tinned Copper, PVC, Semi Rigid Insulation, Overall Aluminum/Polyester Shield, Slate PVC Outer Jacket, AWM/STYLE 2343 80C, CM 105C, VW-1, AWM/STYLE 10002 105C, AWM/STYLE 2517 105C, SUN RES, CSA CMG, CSA FT4 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)	5	22 AWG	7x30	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	SR-PVC - Polyvinyl Chloride (Semi-Rigid)	0.010 in (0.25 mm)	0.050 in (1.3 mm)	Black, Brown, Red, Orange, Yellow

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.270 in (6.86 mm)	Yes

Overall Cable Diameter (Nominal): 0.270 in (6.86 mm)

### Electrical Characteristics

#### Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance
Conductor(s)	35 pF/ft (110 pF/m)	63 pF/ft (210 pF/m)	0.18 µH/ft (0.59 µH/m)

Nom Outer Shield DCR: 118 Ohm/1000ft (387 Ohm/km)

#### Voltage

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

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
105°C	-35°C To +105°C

#### Bend Radius

**Stationary Min.**

2.7 in (69 mm)

Max. Pull Tension: 16.5 lbs (7.48 kg)

**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 2343AWM 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 5580C 5C 22 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES OR AWM 2343 80C 300V OR AWM 2517 105C 300V VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4 CE ROHS OIL RESISTANT (SEQ FOOTAGE)
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**History**

Update and Revision:	Revision Number: 0.123 Revision Date: 06-30-2026
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**Part Numbers****Variants**

Item #	Color	Putup Type	Length
5580C SL005	Black	Reel	100 ft

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