



Product: [5355C](#) 

XTRAGUARD 1, 27PR #20, 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, 27 Pair 20 AWG (7/28) 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. |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 27 | 20 AWG | 7x28 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---------|--|--------------------|--------------------------|---|
| Pair(s) | SR-PVC - Polyvinyl Chloride (Semi-Rigid) | 0.010 in (0.25 mm) | 0.058 in (1.5 mm) | White-Black, White-Brown, White-Red, White-Orange, White-Yellow, White-Green, White-Blue, White-Violet, White-Slate, Black-Brown, Black-Red, Black-Orange, Black-Yellow, Black-Green, Black-Blue, Black-Violet, Black-Slate, Brown-Red, Brown-Orange, Brown-Yellow, Brown-Green, Brown-Blue, Brown-Violet, Brown-Slate, Red-Orange, Red-Yellow, Red-Green |

Outer Shield

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

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|--------------------------|-------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.063 in (1.6 mm) | 0.749 in (19.0 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.749 in (19.0 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedance | Nom. Inductance |
|---------|-------------------------------|---|-------------------------------|------------------------|
| Pair(s) | 26 pF/ft (85 pF/m) | 47 pF/ft (150 pF/m) | 72 Ohm | 0.17 μH/ft (0.56 μH/m) |

| | |
|-----------------------|-----------------------------|
| Nom Outer Shield DCR: | 121 Ohm/1000ft (397 Ohm/km) |
|-----------------------|-----------------------------|

Voltage

| UL Voltage Rating |
|-------------------------------------|
| 300 V (CM, CMG, AWM 2343, AWM 2517) |

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. |
|-----------------|
| 7.5 in (190 mm) |

Max. Pull Tension: 38 lbs (17 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

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|--------|---|
| Notes: | Alpha Wire -* P/N 5355C 27PR 20 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES OR AWM 2343 80C 300V OR AWM 2517 105C 300V VW-1 --- LLXXXXX CSA 105C TYPE CMG FT4 CE ROHS OIL RESISTANT (SEQ FOOTAGE) |
|--------|---|

History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.11 Revision Date: 06-30-2026 |
|----------------------|---|

Part Numbers

Variants

| Item # | Color | Putup Type | Length |
|-------------|-------------|---------------|--------|
| 5355C SL199 | White/Black | Cut to Length | 1 ft |

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