



**Product:** [5400F1](#)

Security & Sound, #20-2c, TC, Shielded, CM, Water-Blocked

Product Description

Security & Sound Cable, Rated-CM, 2-20 AWG stranded tinned copper conductors with PVC insulation, waterblocking tape, Beldfoil® shield and PVC jacket with ripcord

Technical Specifications

Product Overview

|                        |                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Security System, Intercom/PA, Audio/Speaker, Power-Limited Controls, Noisy & Wet Location, Below-Grade Duct |
|------------------------|-------------------------------------------------------------------------------------------------------------|

Construction Details

Conductor

| Element      | No. of Elements | Size   | Stranding | Material           |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 2               | 20 AWG | 7x28      | TC - Tinned Copper |

Insulation

| Element      | Material                 | Nom. Thickness    | Nom. Insulation Diameter | Color Code |
|--------------|--------------------------|-------------------|--------------------------|------------|
| Conductor(s) | PVC - Polyvinyl Chloride | 0.01 in (0.25 mm) | 0.058 in (1.5 mm)        | Black, Red |

Outer Shield

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

|                |                 |
|----------------|-----------------|
| Waterblocking: | Waterblock Tape |
|----------------|-----------------|

Outer Jacket

| Separator          | Material                 | Nom. Thickness     | Nom. Diameter | Ripcord |
|--------------------|--------------------------|--------------------|---------------|---------|
| Waterblocking Tape | PVC - Polyvinyl Chloride | 0.025 in (0.64 mm) | 0.197 in      | Yes     |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.197 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                   |
|--------------|--------------------|-------------------------------|-------------------------------------------------|--------------------------------|
| Conductor(s) | 10.3 Ohm/1000ft    | 56 pF/ft (180 pF/m)           | 101 pF/ft (331 pF/m)                            | 6.3 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V             |

Mechanical Characteristics

Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 105°C          | -40°C To +105°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|-----------------|-------------------|

|                    |                |
|--------------------|----------------|
| 1.97 in (50.0 mm)  | 1.97 in        |
| Max. Pull Tension: | 34 lbs (15 kg) |
| Bulk Cable Weight: | 19 lbs/1000ft  |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor, Outdoor, Sunlight Resistance                                                                                      |
| Sustainability:                  | Product Lens™, Environmental Product Declaration (EPD) Available                                                          |
| Flammability / Reaction to Fire: | UL1685 UL Loading                                                                                                         |
| NEC / UL Compliance:             | Article 800, CM                                                                                                           |
| CEC / C(UL) Compliance:          | CM                                                                                                                        |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                           |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.305 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #         | Color | UPC          | Footnote |
|----------------|-------|--------------|----------|
| 5400F1 0081000 | Gray  | 612825161974 | C        |

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