

# Xtra-Guard® 1 Performance Cable



# Xtra-Guard 1 Cable

## Setting the standard in tough PVC cable



Alpha Wire's Xtra-Guard cable brings performance and reliability to the biggest challenges in the toughest environments. No matter what extremes your application faces, you'll find an Xtra-Guard cable that excels in meeting your requirements. Years of abuse in some of the harshest environments have proven Xtra-Guard means peace of mind. With its premium PVC insulation and jacket, Xtra-Guard 1 cable strips cleanly and routes easily. It's available in multiconductor and multipair configurations with 300 V and 600 V ratings.

### Features

- Color-coded, tinned copper conductors
- Premium-grade PVC insulation and jacket for easier cable routing in small spaces
- Unshielded, foil shielded, or Supra-Shield® foil/braid
- 105°C temperature rating
- UL VW-1, UL 1685, and CSA FT-4 flammability rating
- NFPA 79 compliant
- Nylon ripcord for easy jacket stripping
- Wide range of cable configurations and lengths in stock, ready to ship same day

- No minimum order quantity on lengths of 100', 500', and 1000'
- Samples of any product can be shipped next day free of charge

### Applications

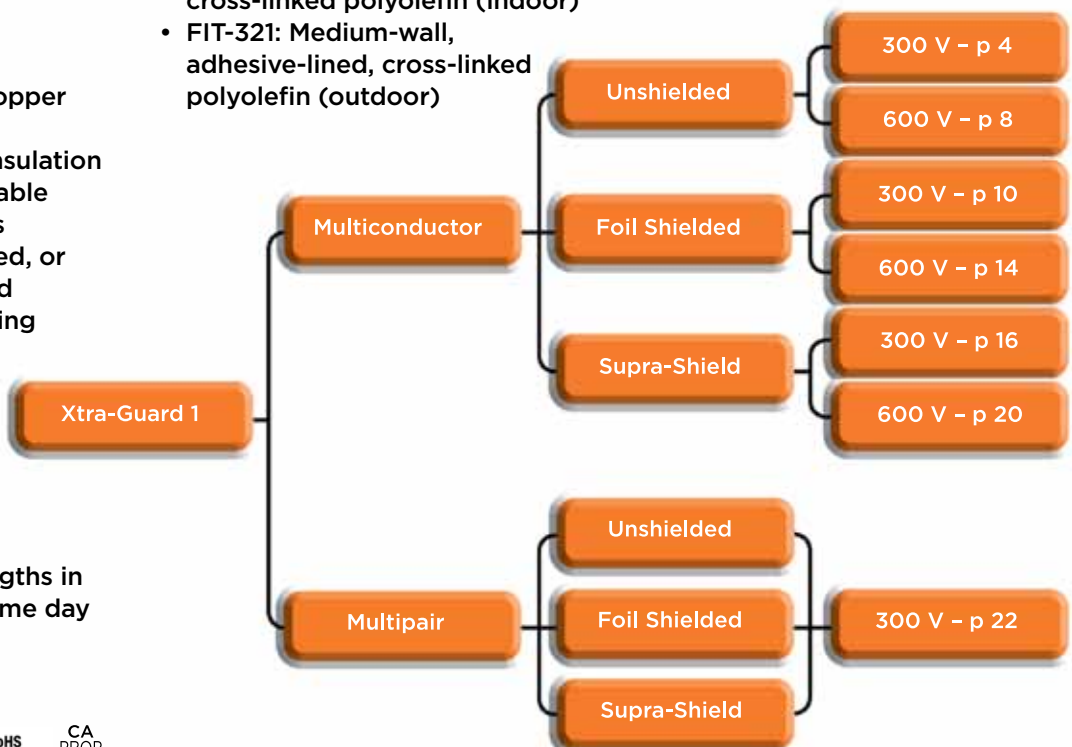
- EIA RS-232 interface
- High technology applications in controlled environments
- Medical electronics
- Point-of-sale equipment
- Computer peripherals
- Industrial process controls

|       |        |        |
|-------|--------|--------|
| SLATE | BEIGE  | WHITE  |
| RED   | BLACK  | BLUE   |
| GREEN | YELLOW | ORANGE |

Xtra-Guard cables are available in a range of long-lasting colors for fast, easy identification, for safety reasons, and for matching the color of your system.

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)



### Xtra-Guard shielding options

Alpha Wire offers Xtra-Guard 1 cables in three shielding options to handle virtually any electrical environment.

#### Unshielded

Unshielded cables provide the smallest cable diameter for use in low-noise controlled environments.

#### Foil shielded

Foil-shielded cables use a sturdy aluminum/polyester shield for moderate EMI needs, especially at lower frequencies. A tinned copper drain wire makes grounding the cable easy. Foil shields allow lighter weights and smaller cables.

#### Supra-Shield®

Alpha's exclusive Supra-Shield cables combine a triple-layer aluminum/polyester/aluminum foil with a tinned copper braid shield with tight 70% coverage. Supra-Shield offers exceptional EMI performance and flexibility to protect against noise and maintain overall system integrity. The combination of foil and braid offers better shielding effectiveness than either approach alone against both low- and high-frequency noise.



### There's an Xtra-Guard cable for any application hazard

#### Xtra-Guard 1

High performance in a tough PVC jacket

#### Xtra-Guard 2

Added abrasion resistance to withstand mechanical abuse

#### Xtra-Guard 3

Direct burial—no conduit needed

#### Xtra-Guard 4

Advanced temperature and chemical performance

#### Xtra-Guard 5

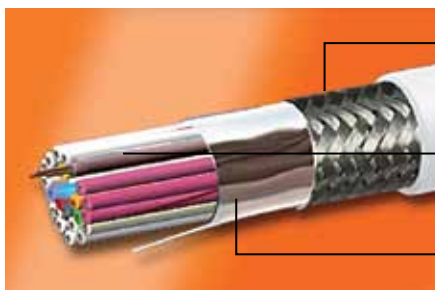
Maximum chemical and temperature performance

#### Xtra-Guard Flex

Continuous flex applications

#### Xtra-Guard Industrial Ethernet

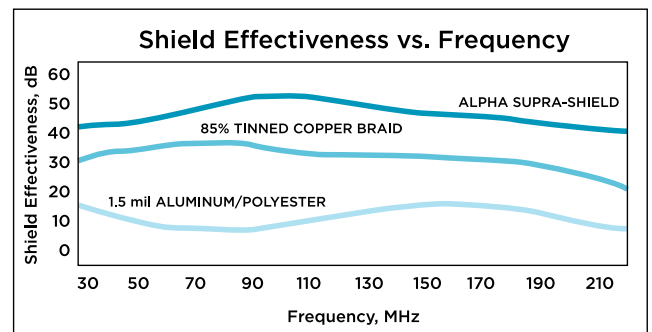
Cat 5e that's beyond factory tough



70% Tinned  
Copper Braid

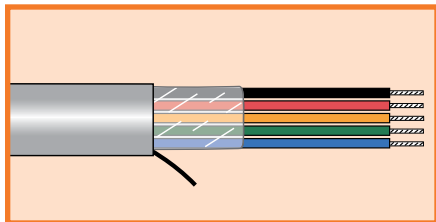
Easy-To-Terminate,  
Continuous Contact  
Drain Wire

Triple-Laminate Foil  
with 25% Overlap



# Xtra-Guard® 1

High performance  
300 V Unshielded, Multiconductor



**UL CM**  
**UL AWM 2464 VW-1**  
**CSA CMG FT4**

## Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

## Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 31)
- 20, 18, 16 AWG: Chart D (page 30)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

## Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

## Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

## FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

### 28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |      | Jacket Thickness |      |
|-------------|------------|------------------|------|------------------|------|
|             |            | Inch             | mm   | Inch             | mm   |
| <b>5920</b> | 2          | 0.138            | 3.51 | 0.032            | 0.81 |
| <b>5921</b> | 3          | 0.144            | 3.66 | 0.032            | 0.81 |
| <b>5922</b> | 4          | 0.153            | 3.89 | 0.032            | 0.81 |
| <b>5923</b> | 6          | 0.174            | 4.42 | 0.032            | 0.81 |
| <b>5924</b> | 7          | 0.174            | 4.42 | 0.032            | 0.81 |
| <b>5925</b> | 8          | 0.185            | 4.70 | 0.032            | 0.81 |

### 26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |      | Jacket Thickness |      |
|-------------|------------|------------------|------|------------------|------|
|             |            | Inch             | mm   | Inch             | mm   |
| <b>5666</b> | 2          | 0.146            | 3.71 | 0.032            | 0.81 |
| <b>5667</b> | 3          | 0.152            | 3.86 | 0.032            | 0.81 |
| <b>5668</b> | 4          | 0.162            | 4.11 | 0.032            | 0.81 |
| <b>5669</b> | 6          | 0.186            | 4.72 | 0.032            | 0.81 |
| <b>5670</b> | 7          | 0.186            | 4.72 | 0.032            | 0.81 |
| <b>5671</b> | 8          | 0.198            | 5.03 | 0.032            | 0.81 |
| <b>5672</b> | 10         | 0.224            | 5.69 | 0.032            | 0.81 |
| <b>5673</b> | 15         | 0.248            | 6.30 | 0.032            | 0.81 |

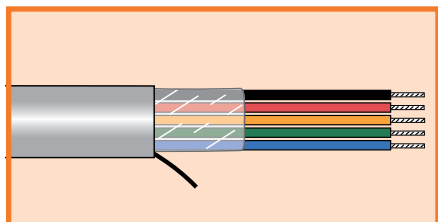
### 24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number     | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|------------|------------------|-------|------------------|------|
|                 |            | Inch             | mm    | Inch             | mm   |
| <b>5012C</b>    | 2          | 0.156            | 3.96  | 0.032            | 0.81 |
| <b>5013C</b>    | 3          | 0.163            | 4.14  | 0.032            | 0.81 |
| <b>5014C</b>    | 4          | 0.175            | 4.45  | 0.032            | 0.81 |
| <b>5016C</b>    | 6          | 0.201            | 5.11  | 0.032            | 0.81 |
| <b>5018C</b>    | 8          | 0.215            | 5.46  | 0.032            | 0.81 |
| <b>5020C</b>    | 10         | 0.244            | 6.20  | 0.032            | 0.81 |
| <b>5020/15C</b> | 15         | 0.271            | 6.88  | 0.032            | 0.81 |
| <b>5020/20C</b> | 20         | 0.300            | 7.62  | 0.032            | 0.81 |
| <b>5020/25C</b> | 25         | 0.332            | 8.43  | 0.032            | 0.81 |
| <b>5020/30C</b> | 30         | 0.350            | 8.89  | 0.032            | 0.81 |
| <b>5020/40C</b> | 40         | 0.390            | 9.91  | 0.032            | 0.81 |
| <b>5020/50C</b> | 50         | 0.429            | 10.90 | 0.032            | 0.81 |

# Xtra-Guard® 1

## High Performance 300 V Unshielded, Multiconductor



### UL CM

### UL AWM 2464 VW-1

### CSA CMG FT4

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 31)
- 20, 18, 16 AWG: Chart D (page 30)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)

500 ft (152 m)

1000 ft (305 m)

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5002C       | 2          | 0.168            | 4.27  | 0.032            | 0.81 |
| 5003C       | 3          | 0.176            | 4.47  | 0.032            | 0.81 |
| 5004C       | 4          | 0.189            | 4.80  | 0.032            | 0.81 |
| 5006C       | 6          | 0.219            | 5.56  | 0.032            | 0.81 |
| 5008C       | 8          | 0.235            | 5.97  | 0.032            | 0.81 |
| 5010C       | 10         | 0.268            | 6.81  | 0.032            | 0.81 |
| 5010/15C    | 15         | 0.299            | 7.59  | 0.032            | 0.81 |
| 5010/20C    | 20         | 0.331            | 8.41  | 0.032            | 0.81 |
| 5010/25C    | 25         | 0.368            | 9.35  | 0.032            | 0.81 |
| 5010/30C    | 30         | 0.389            | 9.88  | 0.032            | 0.81 |
| 5010/40C    | 40         | 0.434            | 11.02 | 0.032            | 0.81 |
| 5010/50C    | 50         | 0.478            | 12.14 | 0.032            | 0.81 |
| 5010/60C    | 60         | 0.518            | 13.16 | 0.032            | 0.81 |

### 20 AWG (0.56 mm²)

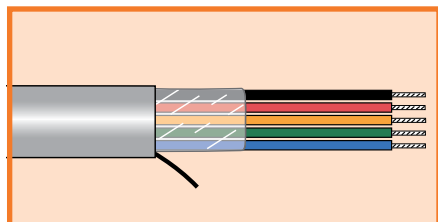
Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5052C       | 2          | 0.208            | 5.28  | 0.032            | 0.81 |
| 5053C       | 3          | 0.219            | 5.56  | 0.032            | 0.81 |
| 5054C       | 4          | 0.238            | 6.05  | 0.032            | 0.81 |
| 5056C       | 6          | 0.280            | 7.11  | 0.032            | 0.81 |
| 5058C       | 8          | 0.302            | 7.67  | 0.032            | 0.81 |
| 5060C       | 10         | 0.348            | 8.84  | 0.032            | 0.81 |
| 5060/15C    | 15         | 0.391            | 9.93  | 0.032            | 0.81 |
| 5060/20C    | 20         | 0.437            | 11.10 | 0.032            | 0.81 |
| 5060/25C    | 25         | 0.488            | 12.40 | 0.032            | 0.81 |
| 5060/30C    | 30         | 0.517            | 13.13 | 0.032            | 0.81 |
| 5060/40C    | 40         | 0.622            | 15.80 | 0.053            | 1.35 |
| 5060/50C    | 50         | 0.684            | 17.37 | 0.053            | 1.35 |



# Xtra-Guard® 1

## High Performance 300 V Unshielded, Multiconductor



**UL CM**  
**UL AWM 2464 VW-1**  
**CSA CMG FT4**

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 31)
- 20, 18, 16 AWG: Chart D (page 30)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

### 18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)  
 Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5062/1C*    | 2          | 0.226            | 5.74  | 0.032            | 0.81 |
| 5062C       | 2          | 0.226            | 5.74  | 0.032            | 0.81 |
| 5063/1C*    | 3          | 0.238            | 6.05  | 0.032            | 0.81 |
| 5063C       | 3          | 0.238            | 6.05  | 0.032            | 0.81 |
| 5064C       | 4          | 0.259            | 6.58  | 0.032            | 0.81 |
| 5066C       | 6          | 0.307            | 7.80  | 0.032            | 0.81 |
| 5068C       | 8          | 0.332            | 8.43  | 0.032            | 0.81 |
| 5070C       | 10         | 0.384            | 9.75  | 0.032            | 0.81 |
| 5070/15C    | 15         | 0.433            | 11.00 | 0.032            | 0.81 |
| 5070/20C    | 20         | 0.484            | 12.29 | 0.032            | 0.81 |
| 5070/25C    | 25         | 0.542            | 13.77 | 0.032            | 0.81 |
| 5070/30C    | 30         | 0.617            | 15.67 | 0.053            | 1.35 |
| 5070/40C    | 40         | 0.688            | 17.48 | 0.053            | 1.35 |
| 5070/50C    | 50         | 0.758            | 19.25 | 0.053            | 1.35 |
| 5070/60C    | 60         | 0.881            | 22.38 | 0.083            | 2.11 |

\*Conductors color-coded per international standards: brown, blue, green/yellow.

### 16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)  
 Insulation thickness: 0.016 (0.41 mm)

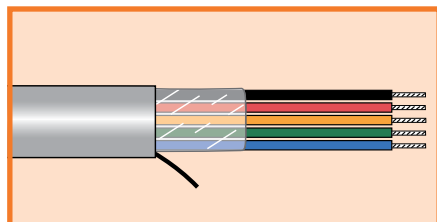
| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5072/1C*    | 2          | 0.250            | 6.35  | 0.032            | 0.81 |
| 5072C       | 2          | 0.250            | 6.35  | 0.032            | 0.81 |
| 5073/1C*    | 3          | 0.264            | 6.71  | 0.032            | 0.81 |
| 5073C       | 3          | 0.264            | 6.71  | 0.032            | 0.81 |
| 5074C       | 4          | 0.288            | 7.32  | 0.032            | 0.81 |
| 5076C       | 6          | 0.343            | 8.71  | 0.032            | 0.81 |
| 5078C       | 8          | 0.372            | 9.45  | 0.032            | 0.81 |
| 5080C       | 10         | 0.432            | 10.97 | 0.032            | 0.81 |
| 5080/15C    | 15         | 0.488            | 12.40 | 0.032            | 0.81 |
| 5080/20C    | 20         | 0.547            | 13.89 | 0.053            | 0.81 |
| 5080/25C    | 25         | 0.656            | 16.66 | 0.053            | 0.81 |
| 5080/30C    | 30         | 0.694            | 17.63 | 0.053            | 0.81 |
| 5080/40C    | 40         | 0.775            | 19.69 | 0.083            | 2.11 |
| 5080/50C    | 50         | 0.917            | 23.29 | 0.083            | 2.11 |

\*Conductors color-coded per international standards: brown, blue, green/yellow.



# Xtra-Guard® 1

## High Performance 300 V Unshielded, Multiconductor



**UL CM**  
**UL AWM 2343 VW-1**  
**CSA CMG FT4**

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- Chart E (page 31)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5201C       | 7          | 0.263            | 6.68  | 0.063            | 1.60 |
| 5202C       | 12         | 0.313            | 7.95  | 0.063            | 1.60 |
| 5203C       | 15         | 0.333            | 8.46  | 0.063            | 1.60 |
| 5204C       | 19         | 0.350            | 8.89  | 0.063            | 1.60 |
| 5206C       | 37         | 0.438            | 11.13 | 0.063            | 1.60 |

#### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5210/2C     | 2          | 0.230            | 5.84  | 0.063            | 1.60 |
| 5211C       | 7          | 0.281            | 7.14  | 0.063            | 1.60 |
| 5212C       | 12         | 0.338            | 8.59  | 0.063            | 1.60 |
| 5213C       | 15         | 0.361            | 9.17  | 0.063            | 1.60 |
| 5214C       | 19         | 0.380            | 9.65  | 0.063            | 1.60 |
| 5214/25C    | 25         | 0.430            | 10.92 | 0.063            | 1.60 |
| 5215C       | 27         | 0.438            | 11.13 | 0.063            | 1.60 |
| 5216C       | 37         | 0.480            | 12.19 | 0.063            | 1.60 |

#### 20 AWG (0.56 mm²)

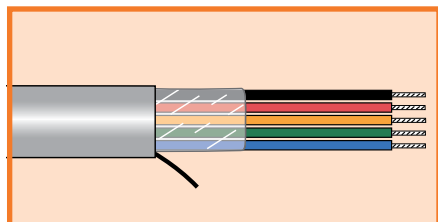
Stranding: 7/28 (7 x 0.32 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5220/2C     | 2          | 0.246            | 6.25  | 0.063            | 1.60 |
| 5220C       | 5          | 0.288            | 7.32  | 0.063            | 1.60 |
| 5221C       | 7          | 0.305            | 7.75  | 0.063            | 1.60 |
| 5222C       | 12         | 0.371            | 9.42  | 0.063            | 1.60 |
| 5223C       | 15         | 0.398            | 10.11 | 0.063            | 1.60 |
| 5224C       | 19         | 0.420            | 10.67 | 0.063            | 1.60 |
| 5224/25C    | 25         | 0.478            | 12.14 | 0.063            | 1.60 |
| 5225C       | 27         | 0.487            | 12.37 | 0.063            | 1.60 |
| 5226C       | 37         | 0.536            | 13.61 | 0.063            | 1.60 |



# Xtra-Guard® 1

## High Performance 600 V Unshielded, Multiconductor



UL CM  
UL AWM 2501 VW-1  
UL MTW  
CSA AWM I/II A/B FT4

### Operating Temperature

- -30°C to +105°C
- -30°C to +90°C (Dry MTW)
- -30°C to +60°C (Wet MTW)

### Conductor Color Coding

- Chart E (page 31)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5402        | 2          | 0.318            | 8.08  | 0.063            | 1.60 |
| 5404        | 4          | 0.358            | 9.09  | 0.063            | 1.60 |
| 5405        | 5          | 0.385            | 9.78  | 0.063            | 1.60 |
| 5409        | 9          | 0.473            | 12.01 | 0.063            | 1.60 |
| 5409/19     | 19         | 0.601            | 15.27 | 0.063            | 1.60 |

#### 20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5413        | 3          | 0.350            | 8.89  | 0.063            | 1.60 |
| 5414        | 4          | 0.377            | 9.58  | 0.063            | 1.60 |
| 5419        | 9          | 0.503            | 12.78 | 0.063            | 1.60 |
| 5419/12     | 12         | 0.554            | 14.07 | 0.063            | 1.60 |
| 5419/15     | 15         | 0.601            | 15.27 | 0.063            | 1.60 |
| 5419/19     | 19         | 0.641            | 16.28 | 0.063            | 1.60 |
| 5419/25     | 25         | 0.742            | 18.85 | 0.063            | 1.60 |

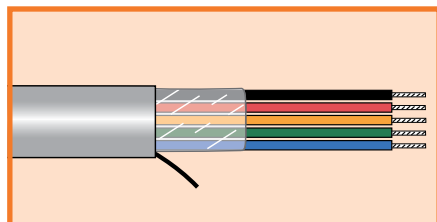
#### 18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)  
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5422        | 2          | 0.352            | 8.94  | 0.063            | 1.60 |
| 5423        | 3          | 0.369            | 9.37  | 0.063            | 1.60 |
| 5424        | 4          | 0.399            | 10.13 | 0.063            | 1.60 |
| 5425        | 5          | 0.432            | 10.97 | 0.063            | 1.60 |
| 5427        | 7          | 0.466            | 11.84 | 0.063            | 1.60 |
| 5429        | 9          | 0.535            | 13.59 | 0.063            | 1.60 |
| 5429/15     | 15         | 0.643            | 16.33 | 0.063            | 1.60 |
| 5429/19     | 19         | 0.686            | 17.42 | 0.063            | 1.60 |
| 5429/25     | 25         | 0.796            | 20.22 | 0.063            | 1.60 |

# Xtra-Guard® 1

## High Performance 600 V Unshielded, Multiconductor



UL CM  
UL AWM 2501 VW-1  
UL MTW  
CSA AWM I/II A/B FT4

### Operating Temperature

- -30°C to +105°C
- -30°C to +90°C (Dry MTW)
- -30°C to +60°C (Wet MTW)

### Conductor Color Coding

- Chart E (page 31)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 16 AWG (1.23 mm<sup>2</sup>)

Stranding: 19/0.0117 (19 x 0.29 mm)  
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5434        | 4          | 0.428            | 10.87 | 0.063            | 1.60 |
| 5435        | 5          | 0.464            | 11.79 | 0.063            | 1.60 |
| 5437        | 7          | 0.502            | 12.75 | 0.063            | 1.60 |
| 5439        | 9          | 0.579            | 14.71 | 0.063            | 1.60 |
| 5439/12     | 12         | 0.641            | 16.28 | 0.063            | 1.60 |
| 5439/15     | 15         | 0.698            | 17.73 | 0.063            | 1.60 |
| 5439/19     | 19         | 0.746            | 18.95 | 0.083            | 2.11 |
| 5439/25     | 25         | 0.908            | 23.06 | 0.083            | 2.11 |

#### 14 AWG (2.08 mm<sup>2</sup>)

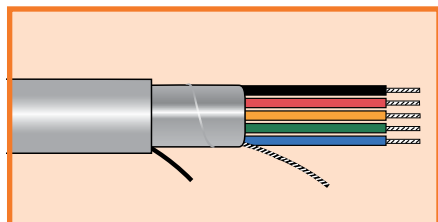
Stranding: 41/30 (41 x 0.25 mm)  
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5442        | 2          | 0.406            | 10.31 | 0.063            | 1.60 |
| 5443        | 3          | 0.428            | 10.87 | 0.063            | 1.60 |
| 5444        | 4          | 0.464            | 11.79 | 0.063            | 1.60 |
| 5445        | 5          | 0.505            | 12.83 | 0.063            | 1.60 |
| 5447        | 7          | 0.547            | 13.89 | 0.063            | 1.60 |
| 5449        | 9          | 0.634            | 16.10 | 0.063            | 1.60 |
| 5449/12     | 12         | 0.703            | 17.86 | 0.063            | 1.60 |
| 5449/15     | 15         | 0.767            | 19.48 | 0.063            | 1.60 |
| 5449/25     | 25         | 0.998            | 25.35 | 0.083            | 2.11 |



# Xtra-Guard® 1

## High Performance 300 V Foil Shielded, Multiconductor



**UL CM**  
**UL AWM 2464 VW-1**  
**CSA CMG FT4**

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 31)
- 20, 18, 16 AWG: Chart D (page 30)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)



#### 28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |      | Jacket Thickness |      |
|-------------|------------|------------------|------|------------------|------|
|             |            | Inch             | mm   | Inch             | mm   |
| <b>5926</b> | 2          | 0.142            | 3.61 | 0.032            | 0.81 |
| <b>5927</b> | 3          | 0.148            | 3.76 | 0.032            | 0.81 |
| <b>5928</b> | 4          | 0.157            | 3.99 | 0.032            | 0.81 |
| <b>5929</b> | 6          | 0.178            | 4.52 | 0.032            | 0.81 |
| <b>5930</b> | 7          | 0.178            | 4.52 | 0.032            | 0.81 |
| <b>5931</b> | 8          | 0.189            | 4.80 | 0.032            | 0.81 |

#### 26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |      | Jacket Thickness |      |
|-------------|------------|------------------|------|------------------|------|
|             |            | Inch             | mm   | Inch             | mm   |
| <b>5674</b> | 2          | 0.150            | 3.81 | 0.032            | 0.81 |
| <b>5675</b> | 3          | 0.156            | 3.96 | 0.032            | 0.81 |
| <b>5676</b> | 4          | 0.166            | 4.22 | 0.032            | 0.81 |
| <b>5677</b> | 6          | 0.190            | 4.83 | 0.032            | 0.81 |
| <b>5678</b> | 7          | 0.190            | 4.83 | 0.032            | 0.81 |
| <b>5679</b> | 8          | 0.202            | 5.13 | 0.032            | 0.81 |
| <b>5680</b> | 10         | 0.228            | 5.79 | 0.032            | 0.81 |
| <b>5681</b> | 15         | 0.252            | 6.40 | 0.032            | 0.81 |

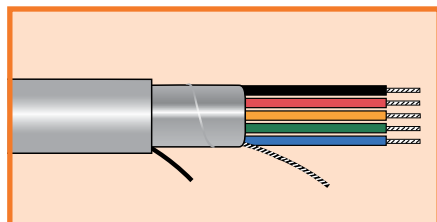
#### 24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number     | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|------------|------------------|-------|------------------|------|
|                 |            | Inch             | mm    | Inch             | mm   |
| <b>5092C</b>    | 2          | 0.160            | 4.06  | 0.032            | 0.81 |
| <b>5093C</b>    | 3          | 0.167            | 4.24  | 0.032            | 0.81 |
| <b>5094C</b>    | 4          | 0.179            | 4.55  | 0.032            | 0.81 |
| <b>5096C</b>    | 6          | 0.205            | 5.21  | 0.032            | 0.81 |
| <b>5098C</b>    | 8          | 0.219            | 5.56  | 0.032            | 0.81 |
| <b>5100C</b>    | 10         | 0.248            | 6.30  | 0.032            | 0.81 |
| <b>5100/15C</b> | 15         | 0.275            | 6.99  | 0.032            | 0.81 |
| <b>5100/20C</b> | 20         | 0.304            | 7.72  | 0.032            | 0.81 |
| <b>5100/25C</b> | 25         | 0.336            | 8.53  | 0.032            | 0.81 |
| <b>5100/30C</b> | 30         | 0.354            | 8.99  | 0.032            | 0.81 |
| <b>5100/40C</b> | 40         | 0.394            | 10.01 | 0.032            | 0.81 |
| <b>5100/50C</b> | 50         | 0.433            | 11.00 | 0.032            | 0.81 |
| <b>5100/60C</b> | 60         | 0.468            | 11.89 | 0.032            | 0.81 |
| <b>5100/70C</b> | 70         | 0.505            | 12.83 | 0.032            | 0.81 |

# Xtra-Guard® 1

## High Performance 300 V Foil Shielded, Multiconductor



### UL CM

### UL AWM 2464 VW-1

### CSA CMG FT4

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 31)
- 20, 18, 16 AWG: Chart D (page 30)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)



### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5192C       | 2          | 0.172            | 4.37  | 0.032            | 0.81 |
| 5193C       | 3          | 0.180            | 4.57  | 0.032            | 0.81 |
| 5194C       | 4          | 0.193            | 4.90  | 0.032            | 0.81 |
| 5196C       | 6          | 0.223            | 5.66  | 0.032            | 0.81 |
| 5198C       | 8          | 0.239            | 6.07  | 0.032            | 0.81 |
| 5199/10C    | 10         | 0.272            | 6.91  | 0.032            | 0.81 |
| 5199/15C    | 15         | 0.303            | 7.70  | 0.032            | 0.81 |
| 5199/20C    | 20         | 0.335            | 8.51  | 0.032            | 0.81 |
| 5199/25C    | 25         | 0.372            | 9.45  | 0.032            | 0.81 |
| 5199/30C    | 30         | 0.393            | 9.98  | 0.032            | 0.81 |
| 5199/40C    | 40         | 0.438            | 11.13 | 0.032            | 0.81 |
| 5199/50C    | 50         | 0.482            | 12.24 | 0.032            | 0.81 |
| 5199/60C    | 60         | 0.522            | 13.26 | 0.032            | 0.81 |
| 5199/70C    | 70         | 0.606            | 15.39 | 0.053            | 1.35 |

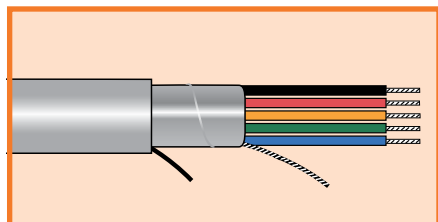
### 20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5462C       | 2          | 0.212            | 5.38  | 0.032            | 0.81 |
| 5463C       | 3          | 0.223            | 5.66  | 0.032            | 0.81 |
| 5464C       | 4          | 0.242            | 6.15  | 0.032            | 0.81 |
| 5466C       | 6          | 0.284            | 7.21  | 0.032            | 0.81 |
| 5468C       | 8          | 0.306            | 7.77  | 0.032            | 0.81 |
| 5470C       | 10         | 0.352            | 8.94  | 0.032            | 0.81 |
| 5470/15C    | 15         | 0.395            | 10.03 | 0.032            | 0.81 |
| 5470/20C    | 20         | 0.441            | 11.20 | 0.032            | 0.81 |
| 5470/25C    | 25         | 0.492            | 12.50 | 0.032            | 0.81 |
| 5470/30C    | 30         | 0.521            | 13.23 | 0.032            | 0.81 |
| 5470/40C    | 40         | 0.626            | 15.90 | 0.053            | 1.35 |
| 5470/50C    | 50         | 0.688            | 17.48 | 0.053            | 1.35 |

# Xtra-Guard® 1

## High Performance 300 V Foil Shielded, Multiconductor

**UL CM****UL AWM 2464 VW-1****CSA CMG FT4****Operating Temperature**

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

**Conductor Color Coding**

- 28, 26, 24, 22 AWG: Chart E (page 31)
- 20, 18, 16 AWG: Chart D (page 30)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

**Materials**

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

**Availability**

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

**FIT® Tubing Recommendations**

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)  
 Insulation thickness: 0.016 (0.41 mm)

| Part Number     | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|------------|------------------|-------|------------------|------|
|                 |            | Inch             | mm    | Inch             | mm   |
| <b>5382C</b>    | 2          | 0.230            | 5.84  | 0.032            | 0.81 |
| <b>5382/1C*</b> | 2          | 0.230            | 5.84  | 0.032            | 0.81 |
| <b>5383C</b>    | 3          | 0.242            | 6.15  | 0.032            | 0.81 |
| <b>5383/1C*</b> | 3          | 0.242            | 6.15  | 0.032            | 0.81 |
| <b>5384C</b>    | 4          | 0.263            | 6.68  | 0.032            | 0.81 |
| <b>5386C</b>    | 6          | 0.311            | 7.90  | 0.032            | 0.81 |
| <b>5388C</b>    | 8          | 0.336            | 8.53  | 0.032            | 0.81 |
| <b>5390C</b>    | 10         | 0.388            | 9.86  | 0.032            | 0.81 |
| <b>5390/15C</b> | 15         | 0.437            | 11.10 | 0.032            | 0.81 |
| <b>5390/20C</b> | 20         | 0.488            | 12.40 | 0.032            | 0.81 |
| <b>5390/25C</b> | 25         | 0.588            | 14.94 | 0.053            | 1.35 |
| <b>5390/30C</b> | 30         | 0.621            | 15.77 | 0.053            | 1.35 |
| <b>5390/40C</b> | 40         | 0.692            | 17.58 | 0.053            | 1.35 |
| <b>5390/50C</b> | 50         | 0.762            | 19.35 | 0.053            | 1.35 |
| <b>5390/60C</b> | 60         | 0.885            | 22.48 | 0.083            | 2.11 |

\*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

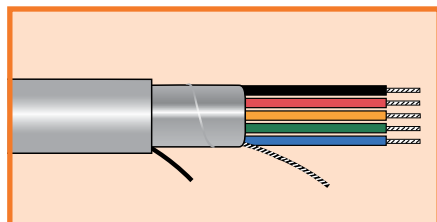
Stranding: 19/0.0117 (19 x 0.29 mm)  
 Insulation thickness: 0.016 (0.41 mm)

| Part Number     | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|------------|------------------|-------|------------------|------|
|                 |            | Inch             | mm    | Inch             | mm   |
| <b>5362C</b>    | 2          | 0.254            | 6.45  | 0.032            | 0.81 |
| <b>5362/1C*</b> | 2          | 0.254            | 6.45  | 0.032            | 0.81 |
| <b>5363C</b>    | 3          | 0.268            | 6.81  | 0.032            | 0.81 |
| <b>5363/1C*</b> | 3          | 0.268            | 6.81  | 0.032            | 0.81 |
| <b>5364C</b>    | 4          | 0.292            | 7.42  | 0.032            | 0.81 |
| <b>5366C</b>    | 6          | 0.347            | 8.81  | 0.032            | 0.81 |
| <b>5368C</b>    | 8          | 0.376            | 9.55  | 0.032            | 0.81 |
| <b>5370C</b>    | 10         | 0.436            | 11.07 | 0.032            | 0.81 |
| <b>5370/15C</b> | 15         | 0.492            | 12.50 | 0.032            | 0.81 |
| <b>5370/20C</b> | 20         | 0.593            | 15.06 | 0.053            | 1.35 |
| <b>5370/25C</b> | 25         | 0.660            | 16.76 | 0.053            | 1.35 |
| <b>5370/30C</b> | 30         | 0.698            | 17.73 | 0.053            | 1.35 |
| <b>5370/40C</b> | 40         | 0.779            | 19.79 | 0.083            | 2.11 |

\*Conductors color-coded per international standards: brown, blue, green/yellow.

# Xtra-Guard® 1

## High Performance 300 V Foil Shielded, Multiconductor

**UL CM****UL AWM 2343 VW-1****CSA CMG FT4**

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- Chart E (page 31)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5599/3C     | 3          | 0.229            | 5.82  | 0.063            | 1.60 |
| 5599/5C     | 5          | 0.254            | 6.45  | 0.063            | 1.60 |
| 5599/7C     | 7          | 0.267            | 6.78  | 0.063            | 1.60 |
| 5599/12C    | 12         | 0.317            | 8.05  | 0.063            | 1.60 |
| 5599/15C    | 15         | 0.337            | 8.56  | 0.063            | 1.60 |
| 5599/19C    | 19         | 0.354            | 8.99  | 0.063            | 1.60 |
| 5599/27C    | 27         | 0.405            | 10.29 | 0.063            | 1.60 |

#### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5580/2C     | 2          | 0.234            | 5.94  | 0.063            | 1.60 |
| 5580C       | 5          | 0.270            | 6.86  | 0.063            | 1.60 |
| 5581C       | 7          | 0.285            | 7.24  | 0.063            | 1.60 |
| 5582C       | 12         | 0.342            | 8.69  | 0.063            | 1.60 |
| 5583C       | 15         | 0.365            | 9.27  | 0.063            | 1.60 |
| 5584C       | 19         | 0.384            | 9.75  | 0.063            | 1.60 |
| 5586C       | 37         | 0.484            | 12.29 | 0.063            | 1.60 |

#### 20 AWG (0.56 mm²)

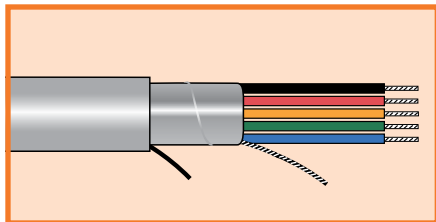
Stranding: 7/28 (7 x 0.32 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5560/2C     | 2          | 0.250            | 6.35  | 0.063            | 1.60 |
| 5560C       | 5          | 0.292            | 7.42  | 0.063            | 1.60 |
| 5561C       | 7          | 0.309            | 7.85  | 0.063            | 1.60 |
| 5562C       | 12         | 0.375            | 9.53  | 0.063            | 1.60 |
| 5563C       | 15         | 0.402            | 10.21 | 0.063            | 1.60 |
| 5564C       | 19         | 0.424            | 10.77 | 0.063            | 1.60 |



# Xtra-Guard® 1

## High Performance 600 V Foil Shielded, Multiconductor



**UL AWM 2501 VW-1**  
**CSA AWM I/II A/B FT4**  
**UL MTW**

### Operating Temperature

- -30°C to +105°C
- -30°C to +90°C (Dry MTW)
- -30°C to +60°C (Wet MTW)

### Conductor Color Coding

- Chart E (page 31)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)  
 Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5410/2      | 2          | 0.322            | 8.18  | 0.063            | 1.60 |
| 5410/3      | 3          | 0.337            | 8.56  | 0.063            | 1.60 |
| 5410/4      | 4          | 0.362            | 9.19  | 0.063            | 1.60 |
| 5410/5      | 5          | 0.389            | 9.88  | 0.063            | 1.60 |
| 5410/9      | 9          | 0.477            | 12.12 | 0.063            | 1.60 |
| 5410/12     | 12         | 0.525            | 13.34 | 0.063            | 1.60 |

#### 20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)  
 Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5420/3      | 3          | 0.354            | 8.99  | 0.063            | 1.60 |
| 5420/4      | 4          | 0.381            | 9.68  | 0.063            | 1.60 |
| 5420/5      | 5          | 0.411            | 10.44 | 0.063            | 1.60 |
| 5420/7      | 7          | 0.442            | 11.23 | 0.063            | 1.60 |
| 5420/9      | 9          | 0.507            | 12.88 | 0.063            | 1.60 |
| 5420/12     | 12         | 0.558            | 14.17 | 0.063            | 1.60 |

#### 18 AWG (0.81 mm²)

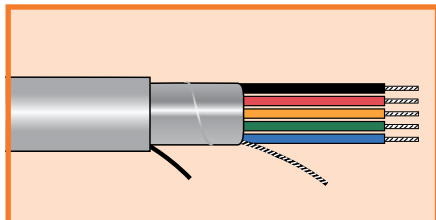
Stranding: 16/30 (16 x 0.25 mm)  
 Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5430/2      | 2          | 0.356            | 9.04  | 0.063            | 1.60 |
| 5430/3      | 3          | 0.373            | 9.47  | 0.063            | 1.60 |
| 5430/4      | 4          | 0.403            | 10.24 | 0.063            | 1.60 |
| 5430/5      | 5          | 0.436            | 11.07 | 0.063            | 1.60 |
| 5430/7      | 7          | 0.470            | 11.94 | 0.063            | 1.60 |
| 5430/9      | 9          | 0.539            | 13.69 | 0.063            | 1.60 |
| 5430/12     | 12         | 0.595            | 15.11 | 0.063            | 1.60 |
| 5430/15     | 15         | 0.647            | 16.43 | 0.063            | 1.60 |
| 5430/19     | 19         | 0.690            | 17.53 | 0.063            | 1.60 |
| 5430/25     | 25         | 0.800            | 20.32 | 0.063            | 1.60 |



# Xtra-Guard® 1

## High Performance 600 V Foil Shielded, Multiconductor



**UL AWM 2501 VW-1**  
**CSA AWM I/II A/B FT4**  
**UL MTW**

### Operating Temperature

- -30°C to +105°C
- -30°C to +90°C (Dry MTW)
- -30°C to +60°C (Wet MTW)

### Conductor Color Coding

- Chart E (page 31)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)  
 Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5440/2      | 2          | 0.380            | 9.65  | 0.063            | 1.60 |
| 5440/3      | 3          | 0.399            | 10.13 | 0.063            | 1.60 |
| 5440/4      | 4          | 0.432            | 10.97 | 0.063            | 1.60 |
| 5440/5      | 5          | 0.468            | 11.89 | 0.063            | 1.60 |
| 5440/7      | 7          | 0.506            | 12.85 | 0.063            | 1.60 |
| 5440/9      | 9          | 0.583            | 14.81 | 0.063            | 1.60 |
| 5440/12     | 12         | 0.645            | 16.38 | 0.063            | 1.60 |
| 5440/15     | 15         | 0.702            | 17.83 | 0.063            | 1.60 |

#### 14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)  
 Insulation thickness: 0.032 (0.81 mm)

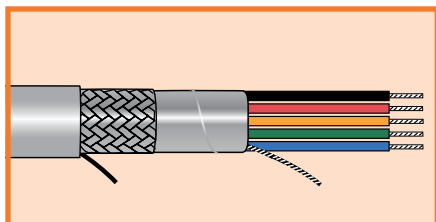
| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5450/2      | 2          | 0.410            | 10.41 | 0.063            | 1.60 |
| 5450/3      | 3          | 0.432            | 10.97 | 0.063            | 1.60 |
| 5450/4      | 4          | 0.468            | 11.89 | 0.063            | 1.60 |
| 5450/5      | 5          | 0.509            | 12.93 | 0.063            | 1.60 |
| 5450/7      | 7          | 0.551            | 14.00 | 0.063            | 1.60 |
| 5450/12     | 12         | 0.707            | 17.96 | 0.063            | 1.60 |



# Xtra-Guard® 1

High Performance

300 V Supra-Shield® Foil/Braid, Multiconductor

**UL CM****UL AWM 2464 VW-1****CSA CMG FT4****Operating Temperature**

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

**Conductor Color Coding**

- 28, 26, 24, 22 AWG: Chart E (page 31)
- 20, 18, 16 AWG: Chart D (page 30)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

**Materials**

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

**Availability**

100 ft (30.5 m)

500 ft (152 m)

1000 ft (305 m)

Bulk, cut to length

**FIT® Tubing Recommendations**

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.127 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |      | Jacket Thickness |      |
|-------------|------------|------------------|------|------------------|------|
|             |            | Inch             | mm   | Inch             | mm   |
| <b>5932</b> | 2          | 0.166            | 4.22 | 0.032            | 0.81 |
| <b>5933</b> | 3          | 0.172            | 4.37 | 0.032            | 0.81 |
| <b>5934</b> | 4          | 0.181            | 4.60 | 0.032            | 0.81 |
| <b>5935</b> | 6          | 0.202            | 5.13 | 0.032            | 0.81 |
| <b>5936</b> | 7          | 0.202            | 5.13 | 0.032            | 0.81 |
| <b>5937</b> | 8          | 0.213            | 5.41 | 0.032            | 0.81 |

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |      | Jacket Thickness |      |
|-------------|------------|------------------|------|------------------|------|
|             |            | Inch             | mm   | Inch             | mm   |
| <b>5682</b> | 2          | 0.174            | 4.42 | 0.032            | 0.81 |
| <b>5683</b> | 3          | 0.180            | 4.57 | 0.032            | 0.81 |
| <b>5684</b> | 4          | 0.190            | 4.83 | 0.032            | 0.81 |
| <b>5685</b> | 6          | 0.214            | 5.44 | 0.032            | 0.81 |
| <b>5686</b> | 7          | 0.214            | 5.44 | 0.032            | 0.81 |
| <b>5687</b> | 8          | 0.226            | 5.74 | 0.032            | 0.81 |
| <b>5688</b> | 10         | 0.252            | 6.40 | 0.032            | 0.81 |
| <b>5689</b> | 15         | 0.276            | 7.01 | 0.032            | 0.81 |

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

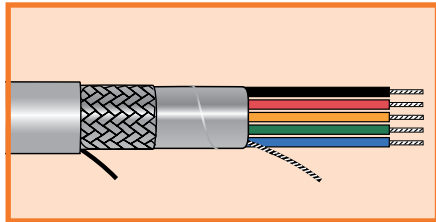
| Part Number     | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|------------|------------------|-------|------------------|------|
|                 |            | Inch             | mm    | Inch             | mm   |
| <b>5112C</b>    | 2          | 0.184            | 4.67  | 0.032            | 0.81 |
| <b>5113C</b>    | 3          | 0.191            | 4.85  | 0.032            | 0.81 |
| <b>5114C</b>    | 4          | 0.203            | 5.16  | 0.032            | 0.81 |
| <b>5116C</b>    | 6          | 0.229            | 5.82  | 0.032            | 0.81 |
| <b>5118C</b>    | 8          | 0.243            | 6.17  | 0.032            | 0.81 |
| <b>5120C</b>    | 10         | 0.272            | 6.91  | 0.032            | 0.81 |
| <b>5120/15C</b> | 15         | 0.299            | 7.59  | 0.032            | 0.81 |
| <b>5120/20C</b> | 20         | 0.328            | 8.33  | 0.032            | 0.81 |
| <b>5120/25C</b> | 25         | 0.360            | 9.14  | 0.032            | 0.81 |
| <b>5120/30C</b> | 30         | 0.378            | 9.60  | 0.032            | 0.81 |
| <b>5120/40C</b> | 40         | 0.418            | 10.62 | 0.032            | 0.81 |
| <b>5120/50C</b> | 50         | 0.457            | 11.61 | 0.032            | 0.81 |



# Xtra-Guard® 1

High Performance

300 V Supra-Shield® Foil/Braid, Multiconductor

**UL CM****UL AWM 2464 VW-1****CSA CMG FT4****Operating Temperature**

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

**Conductor Color Coding**

- 28, 26, 24, 22 AWG: Chart E (page 31)
- 20, 18, 16 AWG: Chart D (page 30)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

**Materials**

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

**Availability**

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

**FIT® Tubing Recommendations**

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5102C       | 2          | 0.196            | 4.98  | 0.032            | 0.81 |
| 5103C       | 3          | 0.204            | 5.18  | 0.032            | 0.81 |
| 5104C       | 4          | 0.217            | 5.51  | 0.032            | 0.81 |
| 5106C       | 6          | 0.247            | 6.27  | 0.032            | 0.81 |
| 5108C       | 8          | 0.263            | 6.68  | 0.032            | 0.81 |
| 5110C       | 10         | 0.296            | 7.52  | 0.032            | 0.81 |
| 5110/15C    | 15         | 0.327            | 8.31  | 0.032            | 0.81 |
| 5110/20C    | 20         | 0.359            | 9.12  | 0.032            | 0.81 |
| 5110/25C    | 25         | 0.396            | 10.06 | 0.032            | 0.81 |
| 5110/30C    | 30         | 0.417            | 10.59 | 0.032            | 0.81 |
| 5110/40C    | 40         | 0.462            | 11.73 | 0.032            | 0.81 |
| 5110/50C    | 50         | 0.506            | 12.85 | 0.032            | 0.81 |
| 5110/60C    | 60         | 0.588            | 14.94 | 0.053            | 1.35 |
| 5110/70C    | 70         | 0.630            | 16.00 | 0.053            | 1.35 |
| 5110/80C    | 80         | 0.665            | 16.89 | 0.053            | 1.35 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)  
 Insulation thickness: 0.016 (0.41 mm)

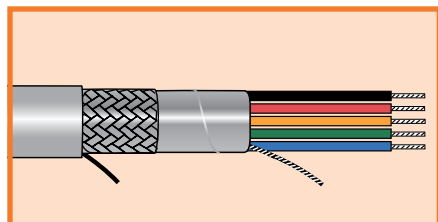
| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| 5152C       | 2          | 0.236            | 5.99  | 0.032            | 0.81 |
| 5153C       | 3          | 0.247            | 6.27  | 0.032            | 0.81 |
| 5154C       | 4          | 0.266            | 6.76  | 0.032            | 0.81 |
| 5156C       | 6          | 0.308            | 7.82  | 0.032            | 0.81 |
| 5158C       | 8          | 0.330            | 8.38  | 0.032            | 0.81 |
| 5160C       | 10         | 0.376            | 9.55  | 0.032            | 0.81 |
| 5160/15C    | 15         | 0.419            | 10.64 | 0.032            | 0.81 |
| 5160/20C    | 20         | 0.465            | 11.81 | 0.032            | 0.81 |
| 5160/25C    | 25         | 0.516            | 13.11 | 0.032            | 0.81 |
| 5160/30C    | 30         | 0.545            | 13.84 | 0.032            | 0.81 |
| 5160/40C    | 40         | 0.656            | 16.66 | 0.053            | 1.35 |
| 5160/50C    | 50         | 0.718            | 18.24 | 0.053            | 1.35 |
| 5160/60C    | 60         | 0.774            | 19.66 | 0.053            | 1.35 |



# Xtra-Guard® 1

High Performance

300 V Supra-Shield® Foil/Braid, Multiconductor

**UL CM****UL AWM 2464 VW-1****CSA CMG FT4****Operating Temperature**

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

**Conductor Color Coding**

- 28, 26, 24, 22 AWG: Chart E (page 31)
- 20, 18, 16 AWG: Chart D (page 30)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

**Materials**

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

**Availability**

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

**FIT® Tubing Recommendations**

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

| 18 AWG (0.81 mm²)                     |            |                  |       |                  |      |
|---------------------------------------|------------|------------------|-------|------------------|------|
| Stranding: 16/30 (16 x 0.25 mm)       |            |                  |       |                  |      |
| Insulation thickness: 0.016 (0.41 mm) |            |                  |       |                  |      |
| Part Number                           | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|                                       |            | Inch             | mm    | Inch             | mm   |
| 5162/1C*                              | 2          | 0.254            | 6.45  | 0.032            | 0.81 |
| 5162C                                 | 2          | 0.254            | 6.45  | 0.032            | 0.81 |
| 5163/1C*                              | 3          | 0.266            | 6.76  | 0.032            | 0.81 |
| 5163C                                 | 3          | 0.266            | 6.76  | 0.032            | 0.81 |
| 5164C                                 | 4          | 0.287            | 7.29  | 0.032            | 0.81 |
| 5166C                                 | 6          | 0.335            | 8.51  | 0.032            | 0.81 |
| 5168C                                 | 8          | 0.360            | 9.14  | 0.032            | 0.81 |
| 5170C                                 | 10         | 0.412            | 10.46 | 0.032            | 0.81 |
| 5170/15C                              | 15         | 0.461            | 11.71 | 0.032            | 0.81 |
| 5170/20C                              | 20         | 0.512            | 13.00 | 0.032            | 0.81 |
| 5170/25C                              | 25         | 0.612            | 15.54 | 0.053            | 1.35 |
| 5170/30C                              | 30         | 0.651            | 16.54 | 0.053            | 1.35 |
| 5170/40C                              | 40         | 0.722            | 18.34 | 0.053            | 1.35 |

\*Conductors color-coded per international standards: brown, blue, green/yellow.

| 16 AWG (1.23 mm²)                     |            |                  |       |                  |      |
|---------------------------------------|------------|------------------|-------|------------------|------|
| Stranding: 19/0.0117 (19 x 0.29 mm)   |            |                  |       |                  |      |
| Insulation thickness: 0.016 (0.41 mm) |            |                  |       |                  |      |
| Part Number                           | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|                                       |            | Inch             | mm    | Inch             | mm   |
| 5172/1C*                              | 2          | 0.278            | 7.06  | 0.032            | 0.81 |
| 5172C                                 | 2          | 0.278            | 7.06  | 0.032            | 0.81 |
| 5173/1C*                              | 3          | 0.292            | 7.42  | 0.032            | 0.81 |
| 5173C                                 | 3          | 0.292            | 7.42  | 0.032            | 0.81 |
| 5174C                                 | 4          | 0.316            | 8.03  | 0.032            | 0.81 |
| 5176C                                 | 6          | 0.371            | 9.42  | 0.032            | 0.81 |
| 5178C                                 | 8          | 0.400            | 10.16 | 0.032            | 0.81 |
| 5180C                                 | 10         | 0.460            | 11.68 | 0.032            | 0.81 |
| 5180/15C                              | 15         | 0.516            | 13.11 | 0.032            | 0.81 |
| 5180/20C                              | 20         | 0.617            | 15.67 | 0.053            | 1.35 |
| 5180/25C                              | 25         | 0.690            | 17.53 | 0.053            | 1.35 |

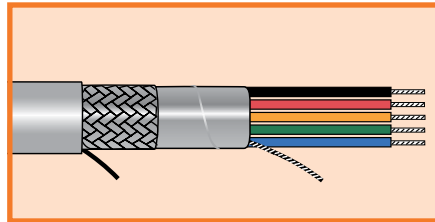
\*Conductors color-coded per international standards: brown, blue, green/yellow.



# Xtra-Guard® 1

High Performance

300 V Supra-Shield® Foil/Braid, Multiconductor

**UL CM****UL AWM 2343 VW-1****CSA CMG FT4****Operating Temperature**

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

**Conductor Color Coding**

- Chart E (page 31)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

**Materials**

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

**Availability**

100 ft (30.5 m)

500 ft (152 m)

1000 ft (305 m)

Bulk, cut to length

**FIT® Tubing Recommendations**

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number  | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|--------------|------------|------------------|-------|------------------|------|
|              |            | Inch             | mm    | Inch             | mm   |
| <b>5300C</b> | 5          | 0.278            | 7.06  | 0.063            | 1.60 |
| <b>5301C</b> | 7          | 0.291            | 7.39  | 0.063            | 1.60 |
| <b>5302C</b> | 12         | 0.341            | 8.66  | 0.063            | 1.60 |
| <b>5303C</b> | 15         | 0.361            | 9.17  | 0.063            | 1.60 |
| <b>5304C</b> | 19         | 0.378            | 9.60  | 0.063            | 1.60 |
| <b>5305C</b> | 27         | 0.429            | 10.90 | 0.063            | 1.60 |
| <b>5306C</b> | 37         | 0.466            | 11.84 | 0.063            | 1.60 |
| <b>5307C</b> | 48         | 0.517            | 13.13 | 0.063            | 1.60 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number  | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|--------------|------------|------------------|-------|------------------|------|
|              |            | Inch             | mm    | Inch             | mm   |
| <b>5310C</b> | 5          | 0.294            | 7.47  | 0.063            | 1.60 |
| <b>5311C</b> | 7          | 0.309            | 7.85  | 0.063            | 1.60 |
| <b>5312C</b> | 12         | 0.366            | 9.30  | 0.063            | 1.60 |
| <b>5313C</b> | 15         | 0.389            | 9.88  | 0.063            | 1.60 |
| <b>5314C</b> | 19         | 0.408            | 10.36 | 0.063            | 1.60 |
| <b>5316C</b> | 37         | 0.508            | 12.90 | 0.063            | 1.60 |
| <b>5318C</b> | 60         | 0.608            | 15.44 | 0.063            | 1.60 |

**20 AWG (0.56 mm²)**

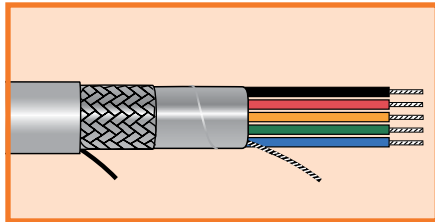
Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number    | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|----------------|------------|------------------|-------|------------------|------|
|                |            | Inch             | mm    | Inch             | Mm   |
| <b>5320/4C</b> | 4          | 0.299            | 7.59  | 0.063            | 1.60 |
| <b>5320C</b>   | 5          | 0.316            | 8.03  | 0.063            | 1.60 |
| <b>5321C</b>   | 7          | 0.333            | 8.46  | 0.063            | 1.60 |
| <b>5322C</b>   | 12         | 0.399            | 10.13 | 0.063            | 1.60 |
| <b>5323C</b>   | 15         | 0.426            | 10.82 | 0.063            | 1.60 |
| <b>5324C</b>   | 19         | 0.448            | 11.38 | 0.063            | 1.60 |
| <b>5325C</b>   | 27         | 0.515            | 13.08 | 0.063            | 1.60 |
| <b>5326C</b>   | 37         | 0.564            | 14.33 | 0.063            | 1.60 |

# Xtra-Guard® 1

High Performance

600 V Supra-Shield® Foil/Braid, Multiconductor



UL AWM 2501 VW-1  
CSA AWM I/II A/B FT4  
UL MTW

### Operating Temperature

- -30°C to +105°C
- -30°C to +90°C (Dry MTW)
- -30°C to +60°C (Wet MTW)

### Conductor Color Coding

- Chart E (page 31)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

| 22 AWG (0.35 mm²)                     |            |                  |       |                  |      |
|---------------------------------------|------------|------------------|-------|------------------|------|
| Stranding: 7/30 (7 x 0.25 mm)         |            |                  |       |                  |      |
| Insulation thickness: 0.032 (0.81 mm) |            |                  |       |                  |      |
| Part Number                           | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|                                       |            | Inch             | mm    | Inch             | mm   |
| 5504                                  | 4          | 0.386            | 9.80  | 0.063            | 1.60 |
| 5507                                  | 7          | 0.442            | 11.23 | 0.063            | 1.60 |
| 5509/12                               | 12         | 0.549            | 13.94 | 0.063            | 1.60 |

| 20 AWG (0.56 mm²)                     |            |                  |       |                  |      |
|---------------------------------------|------------|------------------|-------|------------------|------|
| Stranding: 10/30 (10 x 0.25 mm)       |            |                  |       |                  |      |
| Insulation thickness: 0.032 (0.81 mm) |            |                  |       |                  |      |
| Part Number                           | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|                                       |            | Inch             | mm    | Inch             | mm   |
| 5514                                  | 4          | 0.405            | 10.29 | 0.063            | 1.60 |
| 5517                                  | 7          | 0.466            | 11.84 | 0.063            | 1.60 |
| 5519                                  | 9          | 0.531            | 13.49 | 0.063            | 1.60 |
| 5519/12                               | 12         | 0.582            | 14.78 | 0.063            | 1.60 |
| 5519/19                               | 19         | 0.675            | 17.15 | 0.063            | 1.60 |

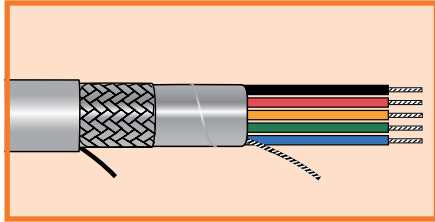
| 18 AWG (0.81 mm²)                     |            |                  |       |                  |      |
|---------------------------------------|------------|------------------|-------|------------------|------|
| Stranding: 16/30 (16 x 0.25 mm)       |            |                  |       |                  |      |
| Insulation thickness: 0.032 (0.81 mm) |            |                  |       |                  |      |
| Part Number                           | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|                                       |            | Inch             | mm    | Inch             | mm   |
| 5522                                  | 2          | 0.380            | 9.65  | 0.063            | 1.60 |
| 5523                                  | 3          | 0.397            | 10.08 | 0.063            | 1.60 |
| 5524                                  | 4          | 0.427            | 10.85 | 0.063            | 1.60 |
| 5525                                  | 5          | 0.460            | 11.68 | 0.063            | 1.60 |
| 5527                                  | 7          | 0.494            | 12.55 | 0.063            | 1.60 |
| 5529                                  | 9          | 0.563            | 14.30 | 0.063            | 1.60 |
| 5529/12                               | 12         | 0.619            | 15.72 | 0.063            | 1.60 |
| 5529/15                               | 15         | 0.677            | 17.20 | 0.063            | 1.60 |
| 5529/19                               | 19         | 0.760            | 19.30 | 0.083            | 2.11 |



# Xtra-Guard® 1

High Performance

600 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 2501 VW-1**  
**CSA AWM I/II A/B FT4**  
**UL MTW**

### Operating Temperature

- -30°C to +105°C
- -30°C to +90°C (Dry MTW)
- -30°C to +60°C (Wet MTW)

### Conductor Color Coding

- Chart E (page 31)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

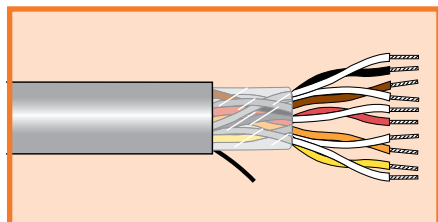
| 16 AWG (1.23 mm <sup>2</sup> )        |            |                  |       |                  |      |
|---------------------------------------|------------|------------------|-------|------------------|------|
| Stranding: 19/0.0117 (19 x 0.29 mm)   |            |                  |       |                  |      |
| Insulation thickness: 0.032 (0.81 mm) |            |                  |       |                  |      |
| Part Number                           | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|                                       |            | Inch             | mm    | Inch             | mm   |
| 5532                                  | 2          | 0.404            | 10.26 | 0.063            | 1.60 |
| 5533                                  | 3          | 0.423            | 10.74 | 0.063            | 1.60 |
| 5534                                  | 4          | 0.456            | 11.58 | 0.063            | 1.60 |
| 5535                                  | 5          | 0.492            | 12.50 | 0.063            | 1.60 |
| 5537                                  | 7          | 0.530            | 13.46 | 0.063            | 1.60 |
| 5539                                  | 9          | 0.607            | 15.42 | 0.063            | 1.60 |
| 5539/12                               | 12         | 0.675            | 17.15 | 0.063            | 1.60 |
| 5539/15                               | 15         | 0.772            | 19.61 | 0.063            | 1.60 |
| 5539/19                               | 19         | 0.820            | 20.83 | 0.083            | 2.11 |

| 14 AWG (2.08 mm <sup>2</sup> )        |            |                  |       |                  |      |
|---------------------------------------|------------|------------------|-------|------------------|------|
| Stranding: 41/30 (41 x 0.25 mm)       |            |                  |       |                  |      |
| Insulation thickness: 0.032 (0.81 mm) |            |                  |       |                  |      |
| Part Number                           | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|                                       |            | Inch             | mm    | Inch             | mm   |
| 5542                                  | 2          | 0.434            | 11.02 | 0.063            | 1.60 |
| 5543                                  | 3          | 0.456            | 11.58 | 0.063            | 1.60 |
| 5544                                  | 4          | 0.492            | 12.50 | 0.063            | 1.60 |
| 5547                                  | 7          | 0.575            | 14.61 | 0.063            | 1.60 |
| 5549                                  | 9          | 0.668            | 16.97 | 0.063            | 1.60 |
| 5549/12                               | 12         | 0.777            | 19.74 | 0.083            | 2.11 |
| 5549/15                               | 15         | 0.841            | 21.36 | 0.083            | 2.11 |



# Xtra-Guard® 1

## High Performance 300 V Unshielded, Multipair

**UL CM****UL AWM 2464 VW-1****CSA CMG FT4**

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- 24, 22 AWG: Chart B (page 29)
- 20, 18 AWG: Chart A (page 29)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------|-------|------------------|-------|------------------|------|
|          |       | Inch             | mm    | Inch             | mm   |
| 5261C    | 1     | 0.156            | 3.96  | 0.032            | 0.81 |
| 5262C    | 2     | 0.212            | 5.38  | 0.032            | 0.81 |
| 5263C    | 3     | 0.224            | 5.69  | 0.032            | 0.81 |
| 5264C    | 4     | 0.243            | 6.17  | 0.032            | 0.81 |
| 5265C    | 5     | 0.264            | 6.71  | 0.032            | 0.81 |
| 5266C    | 6     | 0.286            | 7.26  | 0.032            | 0.81 |
| 5269C    | 9     | 0.332            | 8.43  | 0.032            | 0.81 |
| 5269/11C | 11    | 0.357            | 9.07  | 0.032            | 0.81 |
| 5269/15C | 15    | 0.401            | 10.19 | 0.032            | 0.81 |
| 5269/27C | 27    | 0.512            | 13.00 | 0.032            | 0.81 |
| 5269/77C | 77    | 0.904            | 22.96 | 0.083            | 0.81 |

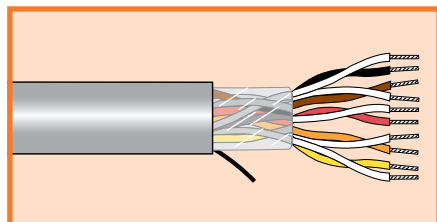
#### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------|-------|------------------|-------|------------------|------|
|          |       | Inch             | mm    | Inch             | mm   |
| 5021C    | 1     | 0.168            | 4.27  | 0.032            | 0.81 |
| 5022C    | 2     | 0.232            | 5.89  | 0.032            | 0.81 |
| 5023C    | 3     | 0.245            | 6.22  | 0.032            | 0.81 |
| 5024C    | 4     | 0.267            | 6.78  | 0.032            | 0.81 |
| 5025C    | 5     | 0.291            | 7.39  | 0.032            | 0.81 |
| 5026C    | 6     | 0.316            | 8.03  | 0.032            | 0.81 |
| 5029/15C | 15    | 0.447            | 11.35 | 0.032            | 0.81 |

# Xtra-Guard® 1

## High Performance 300 V Unshielded, Multipair



**UL CM**  
**UL AWM 2464 VW-1**  
**CSA CMG FT4**

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- 24, 22 AWG: Chart B (page 29)
- 20, 18 AWG: Chart A (page 29)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)  
 Insulation thickness: 0.016 (0.41 mm)

| Part No.        | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-------|------------------|-------|------------------|------|
|                 |       | Inch             | mm    | Inch             | mm   |
| <b>5282C</b>    | 2     | 0.298            | 7.57  | 0.032            | 0.81 |
| <b>5283C</b>    | 3     | 0.316            | 8.03  | 0.032            | 0.81 |
| <b>5286C</b>    | 6     | 0.415            | 10.54 | 0.032            | 0.81 |
| <b>5289C</b>    | 9     | 0.487            | 12.37 | 0.032            | 0.81 |
| <b>5289/12C</b> | 12    | 0.545            | 13.84 | 0.032            | 0.81 |

#### 18 AWG (0.81 mm²)

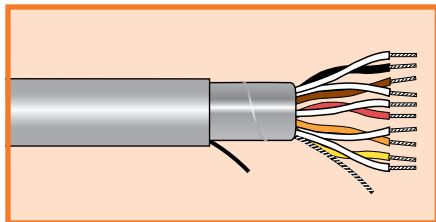
Stranding: 16/30 (16 x 0.25 mm)  
 Insulation thickness: 0.016 (0.41 mm)

| Part No.        | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-------|------------------|-------|------------------|------|
|                 |       | Inch             | mm    | Inch             | mm   |
| <b>5032C</b>    | 2     | 0.327            | 8.31  | 0.032            | 0.81 |
| <b>5033C</b>    | 3     | 0.348            | 8.84  | 0.032            | 0.81 |
| <b>5036C</b>    | 6     | 0.460            | 11.68 | 0.032            | 0.81 |
| <b>5039C</b>    | 9     | 0.541            | 13.74 | 0.053            | 1.35 |
| <b>5039/12C</b> | 12    | 0.648            | 16.46 | 0.053            | 1.35 |



# Xtra-Guard® 1

## High Performance 300 V Foil Shield, Multipair



**UL CM**  
**UL AWM 2464 VW-1**  
**CSA CMG FT4**

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 29)
- 20, 18 AWG: Chart A (page 29)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.12 mm)  
 Insulation Thickness: 0.010 (0.25 mm)

| Part No.    | Pairs | Nominal Diameter |      | Jacket Thickness |      |
|-------------|-------|------------------|------|------------------|------|
|             |       | Inch             | mm   | Inch             | mm   |
| <b>5938</b> | 2     | 0.187            | 4.75 | 0.032            | 0.81 |
| <b>5939</b> | 3     | 0.196            | 4.98 | 0.032            | 0.81 |
| <b>5940</b> | 4     | 0.211            | 5.36 | 0.032            | 0.81 |
| <b>5941</b> | 5     | 0.228            | 5.79 | 0.032            | 0.81 |
| <b>5942</b> | 6     | 0.246            | 6.25 | 0.032            | 0.81 |

#### 26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part No.    | Pairs | Nominal Diameter |      | Jacket Thickness |      |
|-------------|-------|------------------|------|------------------|------|
|             |       | Inch             | mm   | Inch             | mm   |
| <b>5690</b> | 2     | 0.200            | 5.08 | 0.032            | 0.81 |
| <b>5691</b> | 3     | 0.210            | 5.33 | 0.032            | 0.81 |
| <b>5692</b> | 4     | 0.227            | 5.77 | 0.032            | 0.81 |
| <b>5693</b> | 5     | 0.246            | 6.25 | 0.032            | 0.81 |
| <b>5694</b> | 6     | 0.265            | 6.73 | 0.032            | 0.81 |

#### 24 AWG (0.23 mm²)

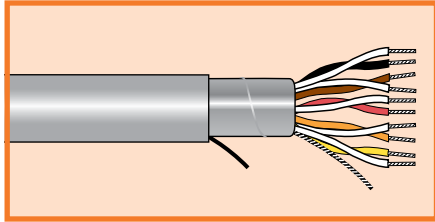
Stranding: 7/32 (7 x 0.20 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part No.        | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-------|------------------|-------|------------------|------|
|                 |       | Inch             | mm    | Inch             | mm   |
| <b>5491C</b>    | 1     | 0.160            | 4.06  | 0.032            | 0.81 |
| <b>5492C</b>    | 2     | 0.216            | 5.49  | 0.032            | 0.81 |
| <b>5493C</b>    | 3     | 0.228            | 5.79  | 0.032            | 0.81 |
| <b>5494C</b>    | 4     | 0.247            | 6.27  | 0.032            | 0.81 |
| <b>5495C</b>    | 5     | 0.268            | 6.81  | 0.032            | 0.81 |
| <b>5496C</b>    | 6     | 0.290            | 7.37  | 0.032            | 0.81 |
| <b>5499C</b>    | 9     | 0.336            | 8.53  | 0.032            | 0.81 |
| <b>5499/11C</b> | 11    | 0.361            | 9.17  | 0.032            | 0.81 |
| <b>5499/15C</b> | 15    | 0.405            | 10.29 | 0.032            | 0.81 |
| <b>5499/19C</b> | 19    | 0.433            | 11.00 | 0.032            | 0.81 |
| <b>5499/27C</b> | 27    | 0.516            | 13.11 | 0.32             | 0.81 |



# Xtra-Guard® 1

High Performance  
300 V Foil Shield, Multipair



**UL CM**  
**UL AWM 2464 VW-1**  
**CSA CMG FT4**

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 29)
- 20, 18 AWG: Chart A (page 29)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

#### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------|-------|------------------|-------|------------------|------|
|          |       | Inch             | mm    | Inch             | mm   |
| 5481C    | 1     | 0.172            | 4.37  | 0.032            | 0.81 |
| 5482C    | 2     | 0.236            | 5.99  | 0.032            | 0.81 |
| 5483C    | 3     | 0.249            | 6.32  | 0.032            | 0.81 |
| 5484C    | 4     | 0.271            | 6.88  | 0.032            | 0.81 |
| 5485C    | 5     | 0.295            | 7.49  | 0.032            | 0.81 |
| 5486C    | 6     | 0.320            | 8.13  | 0.032            | 0.81 |
| 5489C    | 9     | 0.372            | 9.45  | 0.032            | 0.81 |
| 5489/11C | 11    | 0.400            | 10.16 | 0.032            | 0.81 |
| 5489/15C | 15    | 0.451            | 11.46 | 0.032            | 0.81 |
| 5489/19C | 19    | 0.483            | 12.27 | 0.032            | 0.81 |
| 5489/27C | 27    | 0.619            | 15.72 | 0.053            | 1.35 |

#### 20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------|-------|------------------|-------|------------------|------|
|          |       | Inch             | mm    | Inch             | mm   |
| 5452C    | 2     | 0.302            | 7.67  | 0.032            | 0.81 |
| 5453C    | 3     | 0.320            | 8.13  | 0.032            | 0.81 |
| 5456C    | 6     | 0.419            | 10.64 | 0.032            | 0.81 |
| 5459C    | 9     | 0.491            | 12.47 | 0.032            | 0.81 |
| 5459/12C | 12    | 0.549            | 13.94 | 0.032            | 0.81 |
| 5459/19C | 19    | 0.689            | 17.50 | 0.053            | 1.35 |

#### 18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)  
Insulation thickness: 0.016 (0.41 mm)

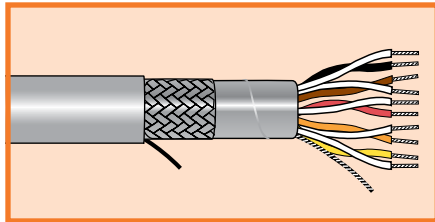
| Part No. | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------|-------|------------------|-------|------------------|------|
|          |       | Inch             | mm    | Inch             | mm   |
| 5373C    | 3     | 0.352            | 8.94  | 0.032            | 0.81 |
| 5376C    | 6     | 0.464            | 11.79 | 0.032            | 0.81 |



# Xtra-Guard® 1

High Performance

300 V Supra-Shield® Foil/Braid, Multipair

**UL CM****UL AWM 2464 VW-1****CSA CMG FT4****Operating Temperature**

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

**Conductor Color Coding**

- 28, 26, 24, 22 AWG: Chart B (page 29)
- 20, 18 AWG: Chart A (page 29)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

**Materials**

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

**Availability**

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

**FIT® Tubing Recommendations**

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.12 mm)  
 Insulation Thickness: 0.010 (0.25 mm)

| Part No.    | Pairs | Nominal Diameter |      | Jacket Thickness |      |
|-------------|-------|------------------|------|------------------|------|
|             |       | Inch             | mm   | Inch             | mm   |
| <b>5943</b> | 2     | 0.211            | 5.36 | 0.032            | 0.81 |
| <b>5944</b> | 3     | 0.220            | 5.59 | 0.032            | 0.81 |
| <b>5945</b> | 4     | 0.235            | 5.97 | 0.032            | 0.81 |
| <b>5946</b> | 5     | 0.252            | 6.40 | 0.032            | 0.81 |
| <b>5947</b> | 6     | 0.270            | 6.86 | 0.032            | 0.81 |

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)

| Part No.    | Pairs | Nominal Diameter |      | Jacket Thickness |      |
|-------------|-------|------------------|------|------------------|------|
|             |       | Inch             | mm   | Inch             | mm   |
| <b>5695</b> | 2     | 0.224            | 5.69 | 0.032            | 0.81 |
| <b>5696</b> | 3     | 0.234            | 5.94 | 0.032            | 0.81 |
| <b>5697</b> | 4     | 0.251            | 6.38 | 0.032            | 0.81 |
| <b>5698</b> | 5     | 0.270            | 6.86 | 0.032            | 0.81 |
| <b>5699</b> | 6     | 0.289            | 7.34 | 0.032            | 0.81 |

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)  
 Insulation thickness: 0.010 (0.25 mm)

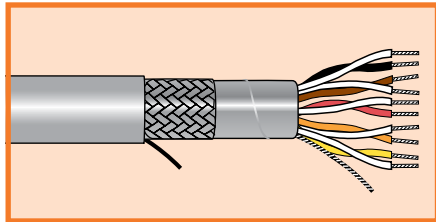
| Part No.        | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-------|------------------|-------|------------------|------|
|                 |       | Inch             | mm    | Inch             | mm   |
| <b>5271C</b>    | 1     | 0.184            | 4.67  | 0.032            | 0.81 |
| <b>5272C</b>    | 2     | 0.240            | 6.10  | 0.032            | 0.81 |
| <b>5273C</b>    | 3     | 0.252            | 6.40  | 0.032            | 0.81 |
| <b>5274C</b>    | 4     | 0.271            | 6.88  | 0.032            | 0.81 |
| <b>5275C</b>    | 5     | 0.292            | 7.42  | 0.032            | 0.81 |
| <b>5276C</b>    | 6     | 0.314            | 7.98  | 0.032            | 0.81 |
| <b>5279C</b>    | 9     | 0.360            | 9.14  | 0.032            | 0.81 |
| <b>5279/11C</b> | 11    | 0.385            | 9.78  | 0.032            | 0.81 |
| <b>5279/15C</b> | 15    | 0.429            | 10.90 | 0.032            | 0.81 |
| <b>5279/19C</b> | 19    | 0.457            | 11.61 | 0.032            | 0.81 |
| <b>5279/27C</b> | 27    | 0.540            | 13.72 | 0.032            | 0.81 |
| <b>5279/51C</b> | 51    | 0.739            | 18.77 | 0.053            | 1.35 |



# Xtra-Guard® 1

High Performance

300 V Supra-Shield® Foil/Braid, Multipair

**UL CM****UL AWM 2464 VW-1****CSA CMG FT4****Operating Temperature**

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

**Conductor Color Coding**

- 28, 26, 24, 22 AWG: Chart B (page 29)
- 20, 18 AWG: Chart A (page 29)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

**Materials**

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

**Availability**

100 ft (30.5 m)  
 500 ft (152 m)  
 1000 ft (305 m)  
 Bulk, cut to length

**FIT® Tubing Recommendations**

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

| 22 AWG (0.35 mm²)                                                      |       |                  |       |                  |      |
|------------------------------------------------------------------------|-------|------------------|-------|------------------|------|
| Stranding: 7/30 (7 x 0.25 mm)<br>Insulation thickness: 0.010 (0.25 mm) |       |                  |       |                  |      |
| Part No.                                                               | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|                                                                        |       | Inch             | mm    | Inch             | mm   |
| 5121C                                                                  | 1     | 0.196            | 4.98  | 0.032            | 0.81 |
| 5122C                                                                  | 2     | 0.260            | 6.60  | 0.032            | 0.81 |
| 5123C                                                                  | 3     | 0.273            | 6.93  | 0.032            | 0.81 |
| 5124C                                                                  | 4     | 0.295            | 7.49  | 0.032            | 0.81 |
| 5125C                                                                  | 5     | 0.319            | 8.10  | 0.032            | 0.81 |
| 5126C                                                                  | 6     | 0.344            | 8.74  | 0.032            | 0.81 |
| 5129C                                                                  | 9     | 0.396            | 10.06 | 0.032            | 0.81 |
| 5129/11C                                                               | 11    | 0.424            | 10.77 | 0.032            | 0.81 |
| 5129/15C                                                               | 15    | 0.475            | 12.07 | 0.032            | 0.81 |
| 5129/19C                                                               | 19    | 0.507            | 12.88 | 0.032            | 0.81 |
| 5129/27C                                                               | 27    | 0.649            | 16.48 | 0.053            | 1.35 |

| 20 AWG (0.56 mm²)                                                      |       |                  |       |                  |      |
|------------------------------------------------------------------------|-------|------------------|-------|------------------|------|
| Stranding: 7/28 (7 x 0.32 mm)<br>Insulation thickness: 0.016 (0.41 mm) |       |                  |       |                  |      |
| Part No.                                                               | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|                                                                        |       | Inch             | mm    | Inch             | mm   |
| 5292C                                                                  | 2     | 0.326            | 8.28  | 0.032            | 0.81 |
| 5293C                                                                  | 3     | 0.344            | 8.74  | 0.032            | 0.81 |
| 5296C                                                                  | 6     | 0.443            | 11.25 | 0.032            | 0.81 |
| 5299C                                                                  | 9     | 0.515            | 13.08 | 0.032            | 0.81 |
| 5299/19C                                                               | 19    | 0.719            | 18.26 | 0.053            | 1.35 |

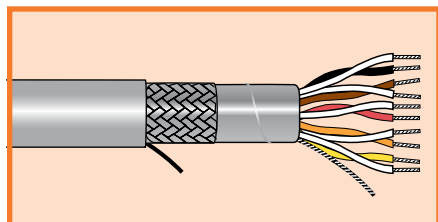
| 18 AWG (0.81 mm²)                                                        |       |                  |       |                  |      |
|--------------------------------------------------------------------------|-------|------------------|-------|------------------|------|
| Stranding: 16/30 (16 x 0.25 mm)<br>Insulation thickness: 0.016 (0.41 mm) |       |                  |       |                  |      |
| Part No.                                                                 | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|                                                                          |       | Inch             | mm    | Inch             | mm   |
| 5132C                                                                    | 2     | 0.355            | 9.02  | 0.032            | 0.81 |
| 5133C                                                                    | 3     | 0.376            | 9.55  | 0.032            | 0.81 |
| 5136C                                                                    | 6     | 0.488            | 12.40 | 0.032            | 0.81 |
| 5139C                                                                    | 9     | 0.611            | 15.52 | 0.053            | 1.35 |
| 5139/27C                                                                 | 27    | 1.004            | 25.50 | 0.083            | 2.11 |



# Xtra-Guard® 1

## High Performance

## 300 V Supra-Shield® Foil/Braid, Multipair



**UL CM**

**UL AWM 2343 VW-1**

**CSA CMG FT4**

### Operating Temperature

- -30°C to +80°C (AWM)
- -30°C to +105°C (CM)

### Conductor Color Coding

- Chart B (page 29)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 2, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)



### 24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part No.     | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|--------------|-------|------------------|-------|------------------|------|
|              |       | Inch             | mm    | Inch             | mm   |
| <b>5330C</b> | 5     | 0.354            | 8.99  | 0.063            | 1.60 |
| <b>5331C</b> | 7     | 0.376            | 9.55  | 0.063            | 1.60 |
| <b>5332C</b> | 12    | 0.458            | 11.63 | 0.063            | 1.60 |
| <b>5333C</b> | 15    | 0.491            | 12.47 | 0.063            | 1.60 |
| <b>5334C</b> | 19    | 0.519            | 13.18 | 0.063            | 1.60 |
| <b>5335C</b> | 27    | 0.602            | 15.29 | 0.063            | 1.60 |
| <b>5336C</b> | 37    | 0.669            | 16.99 | 0.063            | 1.60 |

### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part No.       | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------------|-------|------------------|-------|------------------|------|
|                |       | Inch             | mm    | Inch             | mm   |
| <b>5340/2C</b> | 2     | 0.322            | 8.18  | 0.063            | 1.60 |
| <b>5340C</b>   | 5     | 0.381            | 9.68  | 0.063            | 1.60 |
| <b>5341C</b>   | 7     | 0.406            | 10.31 | 0.063            | 1.60 |
| <b>5342C</b>   | 12    | 0.499            | 12.67 | 0.063            | 1.60 |
| <b>5344C</b>   | 19    | 0.569            | 14.45 | 0.063            | 1.60 |
| <b>5345C</b>   | 27    | 0.669            | 16.99 | 0.063            | 1.60 |
| <b>5346C</b>   | 37    | 0.738            | 18.75 | 0.063            | 1.60 |

### 20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part No.       | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------------|-------|------------------|-------|------------------|------|
|                |       | Inch             | mm    | Inch             | mm   |
| <b>5350/4C</b> | 4     | 0.388            | 9.86  | 0.063            | 1.60 |
| <b>5350C</b>   | 5     | 0.416            | 10.57 | 0.063            | 1.60 |
| <b>5351C</b>   | 7     | 0.446            | 11.33 | 0.063            | 1.60 |
| <b>5351/9C</b> | 9     | 0.505            | 12.83 | 0.063            | 1.60 |
| <b>5353C</b>   | 15    | 0.597            | 15.16 | 0.063            | 1.60 |
| <b>5354C</b>   | 19    | 0.634            | 16.10 | 0.063            | 1.60 |
| <b>5355C</b>   | 27    | 0.749            | 19.02 | 0.063            | 1.60 |

# Conductor Color Coding

## Multipair Cables

| Chart A  |                   |          |                   |          |                   |          |                      |
|----------|-------------------|----------|-------------------|----------|-------------------|----------|----------------------|
| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination    |
| 1        | Black + Red       | 14       | Green + Blue      | 27       | Brown + Yellow    | 40       | Slate + Blue         |
| 2        | Black + White     | 15       | Green + White     | 28       | Violet + Red      | 41       | Slate + Brown        |
| 3        | Black + Green     | 16       | Green + Brown     | 29       | Violet + White    | 42       | Slate + Yellow       |
| 4        | Black + Blue      | 17       | Green + Orange    | 30       | Violet + Green    | 43       | Slate + Orange       |
| 5        | Black + Brown     | 18       | Green + Yellow    | 31       | Violet + Blue     | 44       | Slate + Black        |
| 6        | Black + Yellow    | 19       | White + Blue      | 32       | Violet + Brown    | 45       | White/Black + Red    |
| 7        | Black + Orange    | 20       | White + Brown     | 33       | Violet + Yellow   | 46       | White/Black + Green  |
| 8        | Red + Green       | 21       | White + Orange    | 34       | Violet + Orange   | 47       | White/Black + Blue   |
| 9        | Red + White       | 22       | White + Yellow    | 35       | Violet + Slate    | 48       | White/Black + Brown  |
| 10       | Red + Blue        | 23       | Blue + Brown      | 36       | Violet + Black    | 49       | White/Black + Yellow |
| 11       | Red + Yellow      | 24       | Blue + Orange     | 37       | Slate + Red       | 50       | White/Black + Orange |
| 12       | Red + Brown       | 25       | Blue + Yellow     | 38       | Slate + White     | 51       | White/Black + Violet |
| 13       | Red + Orange      | 26       | Brown + Orange    | 39       | Slate + Green     |          |                      |

| Chart B  |                   |          |                      |          |                       |
|----------|-------------------|----------|----------------------|----------|-----------------------|
| Pair No. | Color Combination | Pair No. | Color Combination    | Pair No. | Color Combination     |
| 1        | White + Black     | 35       | Orange + Slate       | 69       | White/Red + Green     |
| 2        | White + Brown     | 36       | Yellow + Green       | 70       | White/Red + Blue      |
| 3        | White + Red       | 37       | Yellow + Blue        | 71       | White/Red + Violet    |
| 4        | White + Orange    | 38       | Yellow + Violet      | 72       | White/Red + Slate     |
| 5        | White + Yellow    | 39       | Yellow + Slate       | 73       | White/Orange + Black  |
| 6        | White + Green     | 40       | Green + Blue         | 74       | White/Orange + Brown  |
| 7        | White + Blue      | 41       | Green + Violet       | 75       | White/Orange + Red    |
| 8        | White + Violet    | 42       | Green + Slate        | 76       | White/Orange + Orange |
| 9        | White + Slate     | 43       | Blue + Violet        | 77       | White/Orange + Yellow |
| 10       | Black + Brown     | 44       | Blue + Slate         | 78       | White/Orange + Green  |
| 11       | Black + Red       | 45       | Violet + Slate       | 79       | White/Orange + Blue   |
| 12       | Black + Orange    | 46       | White/Black + Black  | 80       | White/Orange + Violet |
| 13       | Black + Yellow    | 47       | White/Black + Brown  | 81       | White/Orange + Slate  |
| 14       | Black + Green     | 48       | White/Black + Red    | 82       | White/Yellow + Black  |
| 15       | Black + Blue      | 49       | White/Black + Orange | 83       | White/Yellow + Brown  |
| 16       | Black + Violet    | 50       | White/Black + Yellow | 84       | White/Yellow + Red    |
| 17       | Black + Slate     | 51       | White/Black + Green  | 85       | White/Yellow + Orange |
| 18       | Brown + Red       | 52       | White/Black + Blue   | 86       | White/Yellow + Yellow |
| 19       | Brown + Orange    | 53       | White/Black + Violet | 87       | White/Yellow + Green  |
| 20       | Brown + Yellow    | 54       | White/Black + Slate  | 88       | White/Yellow + Blue   |
| 21       | Brown + Green     | 55       | White/Brown + Black  | 89       | White/Yellow + Violet |
| 22       | Brown + Blue      | 56       | White/Brown + Brown  | 90       | White/Yellow + Slate  |
| 23       | Brown + Violet    | 57       | White/Brown + Red    | 91       | White/Green + Black   |
| 24       | Brown + Slate     | 58       | White/Brown + Orange | 92       | White/Green + Brown   |
| 25       | Red + Orange      | 59       | White/Brown + Yellow | 93       | White/Green + Red     |
| 26       | Red + Yellow      | 60       | White/Brown + Green  | 94       | White/Green + Orange  |
| 27       | Red + Green       | 61       | White/Brown + Blue   | 95       | White/Green + Yellow  |
| 28       | Red + Blue        | 62       | White/Brown + Violet | 96       | White/Green + Green   |
| 29       | Red + Violet      | 63       | White/Brown + Slate  | 97       | White/Green + Blue    |
| 30       | Red + Slate       | 64       | White/Red + Black    | 98       | White/Green + Violet  |
| 31       | Orange + Yellow   | 65       | White/Red + Brown    | 99       | White/Green + Slate   |
| 32       | Orange + Green    | 66       | White/Red + Red      | 100      | White/Blue + Black    |
| 33       | Orange + Blue     | 67       | White/Red + Orange   | 101      | White/Blue + Brown    |
| 34       | Orange + Violet   | 68       | White/Red + Yellow   | 102      | White/Blue + Red      |

# Conductor Color Coding

## Multiconductor Cables

| Chart D |            |            |            |            |     |            |            |            |            |     |            |            |            |            |
|---------|------------|------------|------------|------------|-----|------------|------------|------------|------------|-----|------------|------------|------------|------------|
| No.     | Base Color | 1st Stripe | 2nd Stripe | 3rd Stripe | No. | Base Color | 1st Stripe | 2nd Stripe | 3rd Stripe | No. | Base Color | 1st Stripe | 2nd Stripe | 3rd Stripe |
| 1       | Black      |            |            |            | 35  | White      | Red        | Red        |            | 69  | White      | Black      | Green      | Blue       |
| 2       | Red        |            |            |            | 36  | White      | Red        | Green      |            | 70  | White      | Black      | Green      | Brown      |
| 3       | White      |            |            |            | 37  | White      | Red        | Blue       |            | 71  | White      | Black      | Green      | Orange     |
| 4       | Green      |            |            |            | 38  | White      | Red        | Brown      |            | 72  | White      | Black      | Green      | Slate      |
| 5       | Orange     |            |            |            | 39  | White      | Red        | Violet     |            | 73  | White      | Black      | Green      | Violet     |
| 6       | Blue       |            |            |            | 40  | White      | Green      | Black      |            | 74  | White      | Black      | Yellow     | Blue       |
| 7       | Brown      |            |            |            | 41  | White      | Green      | Red        |            | 75  | White      | Black      | Yellow     | Brown      |
| 8       | Yellow     |            |            |            | 42  | White      | Green      | Green      |            | 76  | White      | Black      | Yellow     | Orange     |
| 9       | Violet     |            |            |            | 43  | White      | Green      | Blue       |            | 77  | White      | Black      | Yellow     | Slate      |
| 10      | Slate      |            |            |            | 44  | White      | Green      | Brown      |            | 78  | White      | Black      | Yellow     | Violet     |
| 11      | Pink       |            |            |            | 45  | White      | Green      | Violet     |            | 79  | White      | Black      | Blue       | Brown      |
| 12      | Tan        |            |            |            | 46  | White      | Blue       | Black      |            | 80  | White      | Black      | Blue       | Orange     |
| 13      | Red        | Green      |            |            | 47  | White      | Blue       | Red        |            | 81  | White      | Black      | Blue       | Slate      |
| 14      | Red        | Yellow     |            |            | 48  | White      | Blue       | Green      |            | 82  | White      | Black      | Blue       | Violet     |
| 15      | Red        | Black      |            |            | 49  | White      | Blue       | Blue       |            | 83  | White      | Black      | Brown      | Orange     |
| 16      | White      | Black      |            |            | 50  | White      | Blue       | Brown      |            | 84  | White      | Black      | Brown      | Slate      |
| 17      | White      | Red        |            |            | 51  | White      | Blue       | Violet     |            | 85  | White      | Black      | Brown      | Violet     |
| 18      | White      | Green      |            |            | 52  | White      | Brown      | Black      |            | 86  | White      | Black      | Orange     | Slate      |
| 19      | White      | Yellow     |            |            | 53  | White      | Brown      | Red        |            | 87  | White      | Black      | Orange     | Violet     |
| 20      | White      | Blue       |            |            | 54  | White      | Brown      | Green      |            | 88  | White      | Black      | Slate      | Violet     |
| 21      | White      | Brown      |            |            | 55  | White      | Brown      | Blue       |            | 89  | White      | Red        | Black      | Green      |
| 22      | White      | Orange     |            |            | 56  | White      | Brown      | Brown      |            | 90  | White      | Red        | Black      | Yellow     |
| 23      | White      | Slate      |            |            | 57  | White      | Brown      | Violet     |            | 91  | White      | Red        | Black      | Blue       |
| 24      | White      | Violet     |            |            | 58  | White      | Violet     | Red        |            | 92  | White      | Red        | Black      | Brown      |
| 25      | White      | Black      | Red        |            | 59  | White      | Violet     | Green      |            | 93  | White      | Red        | Black      | Orange     |
| 26      | White      | Black      | Green      |            | 60  | White      | Violet     | Blue       |            | 94  | White      | Red        | Black      | Slate      |
| 27      | White      | Black      | Yellow     |            | 61  | White      | Black      | Red        | Green      | 95  | White      | Red        | Black      | Violet     |
| 28      | White      | Black      | Blue       |            | 62  | White      | Black      | Red        | Yellow     | 96  | White      | Red        | Green      | Yellow     |
| 29      | White      | Black      | Brown      |            | 63  | White      | Black      | Red        | Blue       | 97  | White      | Red        | Green      | Blue       |
| 30      | White      | Black      | Orange     |            | 64  | White      | Black      | Red        | Brown      | 98  | White      | Red        | Green      | Brown      |
| 31      | White      | Black      | Slate      |            | 65  | White      | Black      | Red        | Orange     | 99  | White      | Red        | Green      | Orange     |
| 32      | White      | Black      | Violet     |            | 66  | White      | Black      | Red        | Slate      | 100 | White      | Red        | Green      | Slate      |
| 33      | White      | Black      | Black      |            | 67  | White      | Black      | Red        | Violet     |     |            |            |            |            |
| 34      | White      | Red        | Black      |            | 68  | White      | Black      | Green      | Yellow     |     |            |            |            |            |

# Conductor Color Coding

## Multiconductor Cables

| Chart E |            |            |            |            |     |            |            |            |            |     |            |            |            |            |
|---------|------------|------------|------------|------------|-----|------------|------------|------------|------------|-----|------------|------------|------------|------------|
| No.     | Base Color | 1st Stripe | 2nd Stripe | 3rd Stripe | No. | Base Color | 1st Stripe | 2nd Stripe | 3rd Stripe | No. | Base Color | 1st Stripe | 2nd Stripe | 3rd Stripe |
| 1       | Black      |            |            |            | 35  | White      | Red        | Orange     |            | 69  | White      | Black      | Orange     | Green      |
| 2       | Brown      |            |            |            | 36  | White      | Red        | Yellow     |            | 70  | White      | Black      | Orange     | Blue       |
| 3       | Red        |            |            |            | 37  | White      | Red        | Green      |            | 71  | White      | Black      | Orange     | Violet     |
| 4       | Orange     |            |            |            | 38  | White      | Red        | Blue       |            | 72  | White      | Black      | Orange     | Slate      |
| 5       | Yellow     |            |            |            | 39  | White      | Red        | Violet     |            | 73  | White      | Black      | Yellow     | Green      |
| 6       | Green      |            |            |            | 40  | White      | Red        | Slate      |            | 74  | White      | Black      | Yellow     | Blue       |
| 7       | Blue       |            |            |            | 41  | White      | Orange     | Yellow     |            | 75  | White      | Black      | Yellow     | Violet     |
| 8       | Violet     |            |            |            | 42  | White      | Orange     | Green      |            | 76  | White      | Black      | Yellow     | Slate      |
| 9       | Slate      |            |            |            | 43  | White      | Orange     | Blue       |            | 77  | White      | Black      | Green      | Blue       |
| 10      | White      |            |            |            | 44  | White      | Orange     | Violet     |            | 78  | White      | Black      | Green      | Violet     |
| 11      | White      | Black      |            |            | 45  | White      | Orange     | Slate      |            | 79  | White      | Black      | Green      | Slate      |
| 12      | White      | Brown      |            |            | 46  | White      | Yellow     | Green      |            | 80  | White      | Black      | Blue       | Violet     |
| 13      | White      | Red        |            |            | 47  | White      | Yellow     | Blue       |            | 81  | White      | Black      | Blue       | Slate      |
| 14      | White      | Orange     |            |            | 48  | White      | Yellow     | Violet     |            | 82  | White      | Black      | Violet     | Slate      |
| 15      | White      | Yellow     |            |            | 49  | White      | Yellow     | Slate      |            | 83  | White      | Brown      | Red        | Orange     |
| 16      | White      | Green      |            |            | 50  | White      | Green      | Blue       |            | 84  | White      | Brown      | Red        | Yellow     |
| 17      | White      | Blue       |            |            | 51  | White      | Green      | Violet     |            | 85  | White      | Brown      | Red        | Green      |
| 18      | White      | Violet     |            |            | 52  | White      | Green      | Slate      |            | 86  | White      | Brown      | Red        | Blue       |
| 19      | White      | Slate      |            |            | 53  | White      | Blue       | Violet     |            | 87  | White      | Brown      | Red        | Violet     |
| 20      | White      | Black      | Brown      |            | 54  | White      | Blue       | Slate      |            | 88  | White      | Brown      | Red        | Slate      |
| 21      | White      | Black      | Red        |            | 55  | White      | Violet     | Slate      |            | 89  | White      | Brown      | Orange     | Yellow     |
| 22      | White      | Black      | Orange     |            | 56  | White      | Black      | Brown      | Red        | 90  | White      | Brown      | Orange     | Green      |
| 23      | White      | Black      | Yellow     |            | 57  | White      | Black      | Brown      | Orange     | 91  | White      | Brown      | Orange     | Blue       |
| 24      | White      | Black      | Green      |            | 58  | White      | Black      | Brown      | Yellow     | 92  | White      | Brown      | Orange     | Violet     |
| 25      | White      | Black      | Blue       |            | 59  | White      | Black      | Brown      | Green      | 93  | White      | Brown      | Orange     | Slate      |
| 26      | White      | Black      | Violet     |            | 60  | White      | Black      | Brown      | Blue       | 94  | White      | Brown      | Yellow     | Green      |
| 27      | White      | Black      | Slate      |            | 61  | White      | Black      | Brown      | Violet     | 95  | White      | Brown      | Yellow     | Blue       |
| 28      | White      | Brown      | Red        |            | 62  | White      | Black      | Brown      | Slate      | 96  | White      | Brown      | Yellow     | Violet     |
| 29      | White      | Brown      | Orange     |            | 63  | White      | Black      | Red        | Yellow     | 97  | White      | Brown      | Yellow     | Slate      |
| 30      | White      | Brown      | Yellow     |            | 64  | White      | Black      | Red        | Green      | 98  | White      | Brown      | Green      | Blue       |
| 31      | White      | Brown      | Green      |            | 65  | White      | Black      | Red        | Blue       | 99  | White      | Brown      | Green      | Violet     |
| 32      | White      | Brown      | Blue       |            | 66  | White      | Black      | Red        | Violet     | 100 | White      | Brown      | Green      | Slate      |
| 33      | White      | Brown      | Violet     |            | 67  | White      | Black      | Red        | Slate      |     |            |            |            |            |
| 34      | White      | Brown      | Slate      |            | 68  | White      | Black      | Orange     | Yellow     |     |            |            |            |            |

## The cables you trust. The service you deserve.

Every application is critical and cable failure is not an option when the safety of your equipment and personnel is paramount. Specify Xtra-Guard 1 cable for extreme environments and crucial applications, since the integrity of your system is only as robust as the products you use.

## Superior availability

Alpha offers Xtra-Guard 1 cable from stock in most sizes and constructions, in small quantities, so you can order them when you need them. Our products are available for same-day shipment, eliminating long lead times.

## Service and support, second-to-none

Selecting the correct cable is essential to overall system reliability, performance, and safety. So we make it easy for you to select the right Alpha product for your specific application. Our online resources include a wire and cable selection guide, technical information, full product catalog, and a distributor locator to make it easy to select and get the cable, wire, and wire management accessories you need. Just visit **[www.alphawire.com](http://www.alphawire.com)**!

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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