



**Xtreme Performance In Critical, High Technology Electronic Signal Applications**

**XTREME PERFORMANCE BENEFITS:**

- Unique Premium-Grade PVC Insulation And Jacket Provides Easier Routing Of Cables In Tight Spaces
- Fast, Easy Stripping Of Insulation And Jacket To Reduce Installation And Connectorization Time And Cost
- Light-Duty Resistance To Most Oils Per UL Class 43
- Resistance To Ambient Temperatures Up To 105°C (221°F)
- Xtreme Performance Against EMI/ RFI With **SUPRASHIELD®**, Alpha's Proprietary, High Performance Shielding System



**XTRA-GUARD® 1 APPLICATIONS:**

- EIA RS 232C Interface (24, 22 AWG)
- High Technology Applications in Controlled Environments
- Point-Of-Sale Equipment
- Computer Peripherals
- Industrial Process Controls

**CHARACTERISTICS**

**Operating Temperature:**

- -20° C to 105° C CM & CMG
- -20° C to 80° C AWM 2464

**Voltage Rating:**

- 300 Volt

**Color Description:**

- Color Code: 24, 22 AWG Chart E Page 375, 20 AWG Chart D Page 375
- Jacket Colors: Chrome Gray, Industrial Black, Robust Red, High Visibility Yellow, Safety Orange, Bold Blue, Environmental Green, Sand Beige, Pure White

**Product Description:**

- Conductor: Stranded Tinned Copper
- Insulation : Color-Coded Premium PVC
- **SUPRASHIELD:** Aluminum/Polyester/Aluminum Foil with Stranded Tinned Copper Drain Wire Equal in Size to Insulated Conductors of Cable plus 70% Overall Braid of Tinned Copper
- Jacket: Premium PVC
- Nylon Rip Cord for Ease of Jacket Stripping

**SPECIFICATIONS**

- UL AWM Style 2464 Overall
- UL AWM Style 10002 Conductors
- CSA CMG FT4
- Passes UL VW-1 Flame Test
- Passes CSA FT4 Flame Test
- RoHS Compliant

**24 AWG (0,23mm<sup>2</sup>), 7/32 (7x0,25mm), Insulation Thickness: 0.010" (0,25mm)**

| Alpha Part No. | No. of Cond. | Jacket Thickness |      | Nominal Diameter |       |
|----------------|--------------|------------------|------|------------------|-------|
|                |              | Inches           | mm   | Inches           | mm    |
| 5112C          | 2            | 0.032            | 0,81 | 0.184            | 4,67  |
| 5113C          | 3            | 0.032            | 0,81 | 0.191            | 4,85  |
| 5114C          | 4            | 0.032            | 0,81 | 0.203            | 5,16  |
| 5116C          | 6            | 0.032            | 0,81 | 0.229            | 5,82  |
| 5118C          | 8            | 0.032            | 0,81 | 0.243            | 6,17  |
| 5120C          | 10           | 0.032            | 0,81 | 0.272            | 6,91  |
| 5120/15C       | 15           | 0.032            | 0,81 | 0.299            | 7,59  |
| 5120/20C       | 20           | 0.032            | 0,81 | 0.328            | 8,33  |
| 5120/25C       | 25           | 0.032            | 0,81 | 0.360            | 9,14  |
| 5120/30C       | 30           | 0.032            | 0,81 | 0.378            | 9,60  |
| 5120/40C       | 40           | 0.032            | 0,81 | 0.418            | 10,62 |
| 5120/50C       | 50           | 0.032            | 0,81 | 0.457            | 11,61 |

**22 AWG (0,35mm<sup>2</sup>), 7/30 (7x0,25mm), Insulation Thickness: 0.010" (0,25mm)**

| Alpha Part No. | No. of Cond. | Jacket Thickness |      | Nominal Diameter |       |
|----------------|--------------|------------------|------|------------------|-------|
|                |              | Inches           | mm   | Inches           | mm    |
| 5102C          | 2            | 0.032            | 0,81 | 0.196            | 4,98  |
| 5103C          | 3            | 0.032            | 0,81 | 0.204            | 5,18  |
| 5104C          | 4            | 0.032            | 0,81 | 0.217            | 5,51  |
| 5106C          | 6            | 0.032            | 0,81 | 0.247            | 6,27  |
| 5108C          | 8            | 0.032            | 0,81 | 0.263            | 6,68  |
| 5110C          | 10           | 0.032            | 0,81 | 0.296            | 7,52  |
| 5110/15C       | 15           | 0.032            | 0,81 | 0.327            | 8,31  |
| 5110/20C       | 20           | 0.032            | 0,81 | 0.359            | 9,12  |
| 5110/25C       | 25           | 0.032            | 0,81 | 0.396            | 10,06 |
| 5110/30C       | 30           | 0.032            | 0,81 | 0.417            | 10,59 |
| 5110/40C       | 40           | 0.032            | 0,81 | 0.462            | 11,73 |
| 5110/50C       | 50           | 0.032            | 0,81 | 0.506            | 12,85 |
| 5110/60C       | 60           | 0.053            | 1,35 | 0.588            | 14,94 |
| 5110/70C       | 70           | 0.053            | 1,35 | 0.630            | 16,00 |
| 5110/80C       | 80           | 0.053            | 1,35 | 0.665            | 16,89 |

**20 AWG (0,56mm<sup>2</sup>), 7/28 (7x0,32mm), Insulation Thickness: 0.017" (0,43mm)**

| Alpha Part No. | No. of Cond. | Jacket Thickness |      | Nominal Diameter |       |
|----------------|--------------|------------------|------|------------------|-------|
|                |              | Inches           | mm   | Inches           | mm    |
| 5152C          | 2            | 0.032            | 0,81 | 0.236            | 5,99  |
| 5153C          | 3            | 0.032            | 0,81 | 0.247            | 6,27  |
| 5154C          | 4            | 0.032            | 0,81 | 0.266            | 6,76  |
| 5156C          | 6            | 0.032            | 0,81 | 0.308            | 7,82  |
| 5158C          | 8            | 0.032            | 0,81 | 0.330            | 8,38  |
| 5160C          | 10           | 0.032            | 0,81 | 0.376            | 9,55  |
| 5160/15C       | 15           | 0.032            | 0,81 | 0.419            | 10,64 |
| 5160/20C       | 20           | 0.032            | 0,81 | 0.165            | 11,81 |
| 5160/25C       | 25           | 0.032            | 0,81 | 0.516            | 13,11 |
| 5160/30C       | 30           | 0.032            | 0,81 | 0.545            | 13,84 |
| 5160/40C       | 40           | 0.053            | 1,35 | 0.656            | 16,66 |
| 5160/50C       | 50           | 0.053            | 1,35 | 0.718            | 18,24 |
| 5160/60C       | 60           | 0.053            | 1,35 | 0.774            | 19,66 |



**AVAILABILITY**

- Many Items Are Available For Same-Day Shipment From Inventory
  - Orders Placed By 6:00 EST Will Be Shipped The Same Day
- Please Refer To <http://www.alphawire.com/pages/stk.cfm> For Stocked Items
  - Minimums May Apply For Non Stocked Items

**FIT® TUBING RECOMMENDATION**

**FIT®** - 221 - General Purpose, Irradiated Polyolefin (See Page 114 for Product Specifications)

**FIT®** - 321 - Medium-Wall, Adhesive-Lined Irradiated Polyolefin (See Page 121 for Product Specifications)

