

# Pro-Tekt™ European Cable System



**Technical Catalog**

# High-Performance Cables for Demanding Applications



Every cable application is important, and durable, long-lasting equipment requires rugged reliability. Downtime is costly, and your reputation can't afford failure caused by cable that doesn't live up to the demands of the application. Built on our more than 80 years' experience and reputation for quality and reliability, Pro-Tekt™ cables are designed for the challenging demands of your specific application.

## Pro-Tekt Cable

### The Tough, Durable Choice

Offering rugged, reliable performance in demanding applications, Pro-Tekt cables feature a unique, premium-grade PVC insulation and jacket that makes routing of the cable easier in small, tight spaces.

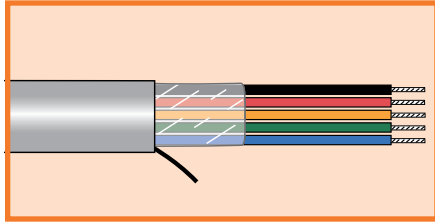
### Application:

- Industrial process controls
- Point-of-sale equipment
- Computer peripherals
- Medical electronics
- High-technology controlled environment



# Pro-Tekt™

## High Performance 300 V Unshielded, Multiconductor



IEC EN 60332-1  
IEC EN 60332-2  
UL CM  
UL AWM 2464 VW-1

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D

### Materials

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

### Availability

- 50, 100, 500, 1000 m

### 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   |
| B951021     | 2          | 0.137            | 3.48 | 0.032            | 0.81 |
| B951031     | 3          | 0.143            | 3.63 | 0.032            | 0.81 |
| B951041     | 4          | 0.152            | 3.86 | 0.032            | 0.81 |
| B951061     | 6          | 0.173            | 4.39 | 0.032            | 0.81 |
| B951071     | 7          | 0.173            | 4.39 | 0.032            | 0.81 |
| B951081     | 8          | 0.184            | 4.67 | 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   |
| B952021     | 2          | 0.145            | 3.68 | 0.032            | 0.81 |
| B952031     | 3          | 0.151            | 3.84 | 0.032            | 0.81 |
| B952041     | 4          | 0.161            | 4.09 | 0.032            | 0.81 |
| B952061     | 6          | 0.185            | 4.70 | 0.032            | 0.81 |
| B952071     | 7          | 0.185            | 4.70 | 0.032            | 0.81 |
| B952081     | 8          | 0.197            | 5.00 | 0.032            | 0.81 |
| B952101     | 10         | 0.223            | 5.66 | 0.032            | 0.81 |
| B952151     | 15         | 0.247            | 6.27 | 0.032            | 0.81 |

### 24 AWG (0.23 mm²)

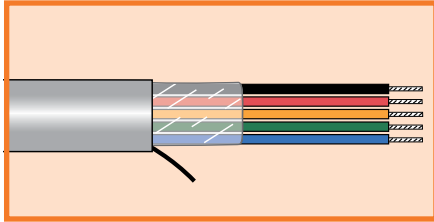
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| B953021     | 2          | 0.155            | 3.94  | 0.032            | 0.81 |
| B953031     | 3          | 0.162            | 4.11  | 0.032            | 0.81 |
| B953041     | 4          | 0.174            | 4.42  | 0.032            | 0.81 |
| B953061     | 6          | 0.20             | 5.08  | 0.032            | 0.81 |
| B953081     | 8          | 0.214            | 5.44  | 0.032            | 0.81 |
| B953101     | 10         | 0.243            | 6.17  | 0.032            | 0.81 |
| B953151     | 15         | 0.270            | 6.86  | 0.032            | 0.81 |
| B953201     | 20         | 0.299            | 7.59  | 0.032            | 0.81 |
| B953251     | 25         | 0.331            | 8.41  | 0.032            | 0.81 |
| B953301     | 30         | 0.349            | 8.86  | 0.032            | 0.81 |
| B953401     | 40         | 0.389            | 9.88  | 0.032            | 0.81 |
| B953501     | 50         | 0.428            | 10.87 | 0.032            | 0.81 |
| B953801     | 80         | 0.525            | 13.34 | 0.032            | 0.81 |



# Pro-Tekt™

## High Performance 300 V Unshielded, Multiconductor



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D

### Materials

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

### Availability

- 50, 100, 500, 1000 m

### 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   |
| <b>B954021</b> | 2          | 0.167            | 4.24  | 0.032            | 0.81 |
| <b>B954031</b> | 3          | 0.175            | 4.44  | 0.032            | 0.81 |
| <b>B954041</b> | 4          | 0.188            | 4.78  | 0.032            | 0.81 |
| <b>B954061</b> | 6          | 0.218            | 5.54  | 0.032            | 0.81 |
| <b>B954081</b> | 8          | 0.234            | 5.94  | 0.032            | 0.81 |
| <b>B954101</b> | 10         | 0.267            | 6.78  | 0.032            | 0.81 |
| <b>B954151</b> | 15         | 0.298            | 7.57  | 0.032            | 0.81 |
| <b>B954201</b> | 20         | 0.330            | 8.38  | 0.032            | 0.81 |
| <b>B954251</b> | 25         | 0.367            | 9.32  | 0.032            | 0.81 |
| <b>B954301</b> | 30         | 0.388            | 9.86  | 0.032            | 0.81 |
| <b>B954401</b> | 40         | 0.433            | 11.00 | 0.032            | 0.81 |
| <b>B954501</b> | 50         | 0.477            | 12.12 | 0.032            | 0.81 |
| <b>B954601</b> | 60         | 0.517            | 13.13 | 0.032            | 0.81 |

### 20 AWG (0.56 mm²)

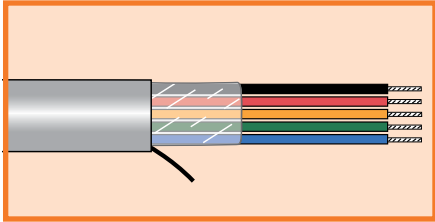
Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.016 (0.41 mm)

| Part Number    | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|----------------|------------|------------------|-------|------------------|------|
|                |            | Inch             | mm    | Inch             | mm   |
| <b>B955021</b> | 2          | 0.207            | 5.26  | 0.032            | 0.81 |
| <b>B955031</b> | 3          | 0.218            | 5.54  | 0.032            | 0.81 |
| <b>B955041</b> | 4          | 0.237            | 6.02  | 0.032            | 0.81 |
| <b>B955061</b> | 6          | 0.279            | 7.09  | 0.032            | 0.81 |
| <b>B955081</b> | 8          | 0.301            | 7.65  | 0.032            | 0.81 |
| <b>B955101</b> | 10         | 0.347            | 8.81  | 0.032            | 0.81 |
| <b>B955151</b> | 15         | 0.390            | 9.91  | 0.032            | 0.81 |
| <b>B955201</b> | 20         | 0.436            | 11.07 | 0.032            | 0.81 |
| <b>B955251</b> | 25         | 0.487            | 12.37 | 0.032            | 0.81 |
| <b>B955301</b> | 30         | 0.516            | 13.11 | 0.032            | 0.81 |
| <b>B955401</b> | 40         | 0.621            | 15.77 | 0.053            | 1.35 |
| <b>B955501</b> | 50         | 0.683            | 17.35 | 0.053            | 1.35 |



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- Premium grey PVC jacket
- UV resistant

### Availability

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### 18 AWG (0.81 mm<sup>2</sup>)

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>B956021</b>   | 2          | 0.225            | 5.72  | 0.032            | 0.81 |
| <b>B956021N*</b> | 2          | 0.225            | 5.72  | 0.032            | 0.81 |
| <b>B956031</b>   | 3          | 0.237            | 6.02  | 0.032            | 0.81 |
| <b>B956031N</b>  | 3          | 0.237            | 6.02  | 0.032            | 0.81 |
| <b>B956041</b>   | 4          | 0.258            | 6.55  | 0.032            | 0.81 |
| <b>B956061</b>   | 6          | 0.306            | 7.77  | 0.032            | 0.81 |
| <b>B956081</b>   | 8          | 0.331            | 8.41  | 0.032            | 0.81 |
| <b>B956101</b>   | 10         | 0.383            | 9.73  | 0.032            | 0.81 |
| <b>B956151</b>   | 15         | 0.432            | 10.97 | 0.032            | 0.81 |
| <b>B956201</b>   | 20         | 0.483            | 12.27 | 0.032            | 0.81 |
| <b>B956251</b>   | 25         | 0.541            | 13.74 | 0.032            | 0.81 |
| <b>B956301</b>   | 30         | 0.616            | 15.65 | 0.053            | 1.35 |
| <b>B956401</b>   | 40         | 0.687            | 17.45 | 0.053            | 1.35 |
| <b>B956501</b>   | 50         | 0.757            | 19.23 | 0.053            | 1.35 |
| <b>B956601</b>   | 60         | 0.880            | 22.35 | 0.083            | 2.11 |

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

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

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>B957021</b>  | 2          | 0.249            | 6.32  | 0.032            | 0.81 |
| <b>B957021N</b> | 2          | 0.249            | 6.32  | 0.032            | 0.81 |
| <b>B957031</b>  | 3          | 0.263            | 6.68  | 0.032            | 0.81 |
| <b>B957031N</b> | 3          | 0.263            | 6.68  | 0.032            | 0.81 |
| <b>B957041</b>  | 4          | 0.287            | 7.29  | 0.032            | 0.81 |
| <b>B957061</b>  | 6          | 0.342            | 8.69  | 0.032            | 0.81 |
| <b>B957081</b>  | 8          | 0.371            | 9.42  | 0.032            | 0.81 |
| <b>B957101</b>  | 10         | 0.431            | 10.95 | 0.032            | 0.81 |
| <b>B957151</b>  | 15         | 0.487            | 12.37 | 0.032            | 0.81 |
| <b>B957201</b>  | 20         | 0.546            | 13.87 | 0.053            | 0.81 |
| <b>B957251</b>  | 25         | 0.655            | 16.64 | 0.053            | 0.81 |
| <b>B957301</b>  | 30         | 0.693            | 17.60 | 0.053            | 0.81 |
| <b>B957401</b>  | 40         | 0.774            | 19.66 | 0.083            | 2.11 |
| <b>B957501</b>  | 50         | 0.916            | 23.27 | 0.083            | 2.11 |

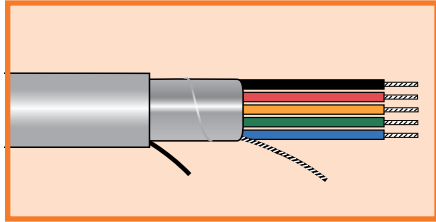
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## High Performance 300 V Foil Shielded, Multiconductor



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### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D

### 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 grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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>B951022</b> | 2          | 0.141            | 3.58 | 0.032            | 0.81 |
| <b>B951032</b> | 3          | 0.147            | 3.73 | 0.032            | 0.81 |
| <b>B951042</b> | 4          | 0.156            | 3.96 | 0.032            | 0.81 |
| <b>B951062</b> | 6          | 0.177            | 4.50 | 0.032            | 0.81 |
| <b>B951072</b> | 7          | 0.177            | 4.50 | 0.032            | 0.81 |
| <b>B951082</b> | 8          | 0.188            | 4.78 | 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>B952022</b> | 2          | 0.149            | 3.78 | 0.032            | 0.81 |
| <b>B952032</b> | 3          | 0.155            | 3.94 | 0.032            | 0.81 |
| <b>B952042</b> | 4          | 0.165            | 4.19 | 0.032            | 0.81 |
| <b>B952062</b> | 6          | 0.189            | 4.80 | 0.032            | 0.81 |
| <b>B952072</b> | 7          | 0.189            | 4.80 | 0.032            | 0.81 |
| <b>B952082</b> | 8          | 0.201            | 5.11 | 0.032            | 0.81 |
| <b>B952102</b> | 10         | 0.227            | 5.77 | 0.032            | 0.81 |
| <b>B952152</b> | 15         | 0.251            | 6.38 | 0.032            | 0.81 |

#### 24 AWG (0.23 mm²)

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

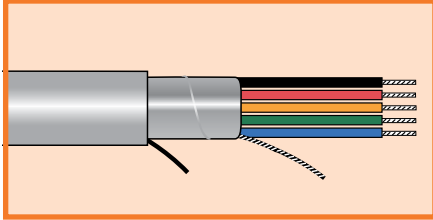
| Part Number    | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|----------------|------------|------------------|-------|------------------|------|
|                |            | Inch             | mm    | Inch             | mm   |
| <b>B953022</b> | 2          | 0.159            | 4.04  | 0.032            | 0.81 |
| <b>B953032</b> | 3          | 0.166            | 4.22  | 0.032            | 0.81 |
| <b>B953042</b> | 4          | 0.178            | 4.52  | 0.032            | 0.81 |
| <b>B953062</b> | 6          | 0.204            | 5.18  | 0.032            | 0.81 |
| <b>B953082</b> | 8          | 0.218            | 5.54  | 0.032            | 0.81 |
| <b>B953102</b> | 10         | 0.247            | 6.27  | 0.032            | 0.81 |
| <b>B953152</b> | 15         | 0.274            | 6.96  | 0.032            | 0.81 |
| <b>B953202</b> | 20         | 0.303            | 7.70  | 0.032            | 0.81 |
| <b>B953252</b> | 25         | 0.335            | 8.51  | 0.032            | 0.81 |
| <b>B953302</b> | 30         | 0.353            | 8.97  | 0.032            | 0.81 |
| <b>B953402</b> | 40         | 0.393            | 9.98  | 0.032            | 0.81 |
| <b>B953502</b> | 50         | 0.432            | 10.97 | 0.032            | 0.81 |
| <b>B953602</b> | 60         | 0.467            | 11.86 | 0.032            | 0.81 |
| <b>B953702</b> | 70         | 0.504            | 12.80 | 0.032            | 0.81 |





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### Materials

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- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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   |
| B954022     | 2          | 0.171            | 4.34  | 0.032            | 0.81 |
| B954032     | 3          | 0.179            | 4.55  | 0.032            | 0.81 |
| B954042     | 4          | 0.192            | 4.88  | 0.032            | 0.81 |
| B954062     | 6          | 0.222            | 5.64  | 0.032            | 0.81 |
| B954082     | 8          | 0.238            | 6.05  | 0.032            | 0.81 |
| B954102     | 10         | 0.271            | 6.88  | 0.032            | 0.81 |
| B954152     | 15         | 0.302            | 7.67  | 0.032            | 0.81 |
| B954202     | 20         | 0.334            | 8.48  | 0.032            | 0.81 |
| B954252     | 25         | 0.371            | 9.42  | 0.032            | 0.81 |
| B954302     | 30         | 0.392            | 9.96  | 0.032            | 0.81 |
| B954402     | 40         | 0.437            | 11.10 | 0.032            | 0.81 |
| B954502     | 50         | 0.481            | 12.22 | 0.032            | 0.81 |
| B954602     | 60         | 0.521            | 13.23 | 0.032            | 0.81 |
| B954702     | 70         | 0.605            | 15.37 | 0.053            | 1.35 |

#### 20 AWG (0.56 mm<sup>2</sup>)

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Insulation thickness: 0.016 (0.41 mm)

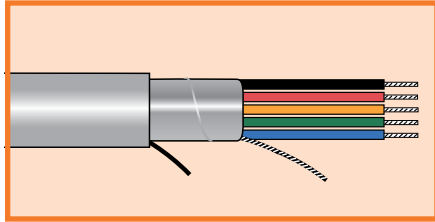
| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| B955022     | 2          | 0.211            | 5.36  | 0.032            | 0.81 |
| B955032     | 3          | 0.222            | 5.64  | 0.032            | 0.81 |
| B955042     | 4          | 0.241            | 6.12  | 0.032            | 0.81 |
| B955062     | 6          | 0.283            | 7.19  | 0.032            | 0.81 |
| B955082     | 8          | 0.305            | 7.75  | 0.032            | 0.81 |
| B955102     | 10         | 0.351            | 8.92  | 0.032            | 0.81 |
| B955152     | 15         | 0.394            | 10.01 | 0.032            | 0.81 |
| B955202     | 20         | 0.440            | 11.18 | 0.032            | 0.81 |
| B955252     | 25         | 0.491            | 12.47 | 0.032            | 0.81 |
| B955302     | 30         | 0.520            | 13.21 | 0.032            | 0.81 |
| B955402     | 40         | 0.625            | 15.88 | 0.053            | 1.35 |
| B955502     | 50         | 0.687            | 17.45 | 0.053            | 1.35 |





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- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

### 18 AWG (0.81 mm<sup>2</sup>)

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>B956022</b>   | 2          | 0.229            | 5.82  | 0.032            | 0.81 |
| <b>B956022N*</b> | 2          | 0.229            | 5.82  | 0.032            | 0.81 |
| <b>B956032</b>   | 3          | 0.241            | 6.12  | 0.032            | 0.81 |
| <b>B956032N*</b> | 3          | 0.241            | 6.12  | 0.032            | 0.81 |
| <b>B956042</b>   | 4          | 0.262            | 6.65  | 0.032            | 0.81 |
| <b>B956062</b>   | 6          | 0.310            | 7.87  | 0.032            | 0.81 |
| <b>B956082</b>   | 8          | 0.335            | 8.51  | 0.032            | 0.81 |
| <b>B956102</b>   | 10         | 0.387            | 9.83  | 0.032            | 0.81 |
| <b>B956152</b>   | 15         | 0.436            | 11.07 | 0.032            | 0.81 |
| <b>B956202</b>   | 20         | 0.487            | 12.37 | 0.032            | 0.81 |
| <b>B956252</b>   | 25         | 0.587            | 14.91 | 0.053            | 1.35 |
| <b>B956302</b>   | 30         | 0.620            | 15.75 | 0.053            | 1.35 |
| <b>B956402</b>   | 40         | 0.691            | 17.55 | 0.053            | 1.35 |
| <b>B956502</b>   | 50         | 0.761            | 19.33 | 0.053            | 1.35 |
| <b>B956602</b>   | 60         | 0.884            | 22.45 | 0.083            | 2.11 |

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

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

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>B957022</b>   | 2          | 0.253            | 6.43  | 0.032            | 0.81 |
| <b>B957022N*</b> | 2          | 0.253            | 6.43  | 0.032            | 0.81 |
| <b>B957032</b>   | 3          | 0.267            | 6.78  | 0.032            | 0.81 |
| <b>B957032N*</b> | 3          | 0.267            | 6.78  | 0.032            | 0.81 |
| <b>B957042</b>   | 4          | 0.291            | 7.39  | 0.032            | 0.81 |
| <b>B957062</b>   | 6          | 0.346            | 8.79  | 0.032            | 0.81 |
| <b>B957082</b>   | 8          | 0.375            | 9.52  | 0.032            | 0.81 |
| <b>B957102</b>   | 10         | 0.435            | 11.05 | 0.032            | 0.81 |
| <b>B957152</b>   | 15         | 0.491            | 12.47 | 0.032            | 0.81 |
| <b>B957202</b>   | 20         | 0.592            | 15.04 | 0.053            | 1.35 |
| <b>B957252</b>   | 25         | 0.659            | 16.74 | 0.053            | 1.35 |
| <b>B957302</b>   | 30         | 0.697            | 17.70 | 0.053            | 1.35 |
| <b>B957402</b>   | 40         | 0.778            | 19.76 | 0.083            | 2.11 |

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

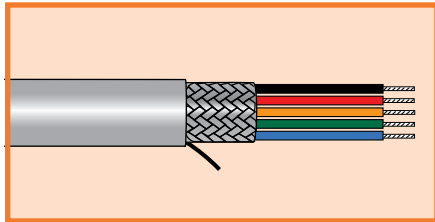






# Pro-Tekt™

## High Performance 300 V Braid Shield, Multiconductor



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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

| Part Number    | Conductors | Nominal Diameter |      | Jacket Thickness |      |
|----------------|------------|------------------|------|------------------|------|
|                |            | Inch             | mm   | Inch             | mm   |
| <b>B951023</b> | 2          | 0.159            | 4.04 | 0.032            | 0.81 |
| <b>B951033</b> | 3          | 0.165            | 4.19 | 0.032            | 0.81 |
| <b>B951043</b> | 4          | 0.174            | 4.42 | 0.032            | 0.81 |
| <b>B951063</b> | 6          | 0.195            | 4.95 | 0.032            | 0.81 |
| <b>B951073</b> | 7          | 0.195            | 4.95 | 0.032            | 0.81 |
| <b>B951083</b> | 8          | 0.206            | 5.23 | 0.032            | 0.81 |

#### 24 AWG (0.32 mm<sup>2</sup>)

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>B952023</b> | 2          | 0.167            | 4.24 | 0.032            | 0.81 |
| <b>B952033</b> | 3          | 0.173            | 4.39 | 0.032            | 0.81 |
| <b>B952043</b> | 4          | 0.183            | 4.65 | 0.032            | 0.81 |
| <b>B952063</b> | 6          | 0.207            | 5.26 | 0.032            | 0.81 |
| <b>B952073</b> | 7          | 0.207            | 5.26 | 0.032            | 0.81 |
| <b>B952083</b> | 8          | 0.219            | 5.56 | 0.032            | 0.81 |
| <b>B952103</b> | 10         | 0.245            | 6.22 | 0.032            | 0.81 |
| <b>B952153</b> | 15         | 0.269            | 6.83 | 0.032            | 0.81 |

#### 22 AWG (0.35 mm<sup>2</sup>)

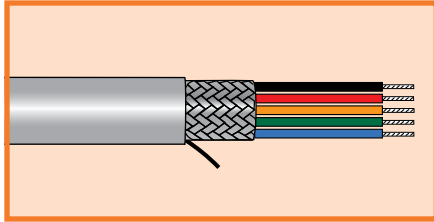
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number    | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|----------------|------------|------------------|-------|------------------|------|
|                |            | Inch             | mm    | Inch             | mm   |
| <b>B953023</b> | 2          | 0.177            | 4.50  | 0.032            | 0.81 |
| <b>B953033</b> | 3          | 0.184            | 4.67  | 0.032            | 0.81 |
| <b>B953043</b> | 4          | 0.196            | 4.98  | 0.032            | 0.81 |
| <b>B953063</b> | 6          | 0.222            | 5.64  | 0.032            | 0.81 |
| <b>B953083</b> | 8          | 0.236            | 5.99  | 0.032            | 0.81 |
| <b>B953103</b> | 10         | 0.265            | 6.73  | 0.032            | 0.81 |
| <b>B953153</b> | 15         | 0.292            | 7.42  | 0.032            | 0.81 |
| <b>B953203</b> | 20         | 0.321            | 8.15  | 0.032            | 0.81 |
| <b>B953253</b> | 25         | 0.353            | 8.97  | 0.032            | 0.81 |
| <b>B953303</b> | 30         | 0.371            | 9.42  | 0.032            | 0.81 |
| <b>B953403</b> | 40         | 0.411            | 10.44 | 0.032            | 0.81 |
| <b>B953503</b> | 50         | 0.450            | 11.43 | 0.032            | 0.81 |
| <b>B953603</b> | 60         | 0.491            | 12.47 | 0.032            | 0.81 |
| <b>B953703</b> | 70         | 0.528            | 13.41 | 0.032            | 0.81 |



# Pro-Tekt™

## High Performance 300 V Braid Shield, Multiconductor



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

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

| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| B954023     | 2          | 0.189            | 4.80  | 0.032            | 0.81 |
| B954033     | 3          | 0.197            | 5.00  | 0.032            | 0.81 |
| B954043     | 4          | 0.210            | 5.33  | 0.032            | 0.81 |
| B954063     | 6          | 0.240            | 6.10  | 0.032            | 0.81 |
| B954083     | 8          | 0.256            | 6.50  | 0.032            | 0.81 |
| B954103     | 10         | 0.289            | 7.34  | 0.032            | 0.81 |
| B954153     | 15         | 0.320            | 8.13  | 0.032            | 0.81 |
| B954203     | 20         | 0.352            | 8.94  | 0.032            | 0.81 |
| B954253     | 25         | 0.389            | 9.88  | 0.032            | 0.81 |
| B954303     | 30         | 0.410            | 10.41 | 0.032            | 0.81 |
| B954403     | 40         | 0.455            | 11.56 | 0.032            | 0.81 |
| B954503     | 50         | 0.505            | 12.83 | 0.032            | 0.81 |
| B954603     | 60         | 0.587            | 14.91 | 0.032            | 0.81 |
| B954703     | 70         | 0.629            | 15.98 | 0.032            | 0.81 |

### 20 AWG (0.56 mm²)

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

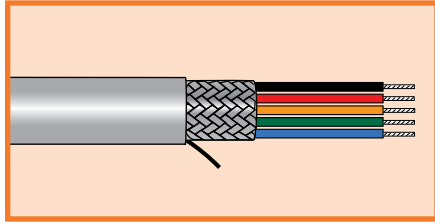
| Part Number | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-------------|------------|------------------|-------|------------------|------|
|             |            | Inch             | mm    | Inch             | mm   |
| B955023     | 2          | 0.229            | 5.82  | 0.032            | 0.81 |
| B955033     | 3          | 0.240            | 6.10  | 0.032            | 0.81 |
| B955043     | 4          | 0.259            | 6.58  | 0.032            | 0.81 |
| B955063     | 6          | 0.301            | 7.65  | 0.032            | 0.81 |
| B955083     | 8          | 0.323            | 8.20  | 0.032            | 0.81 |
| B955103     | 10         | 0.369            | 9.37  | 0.032            | 0.81 |
| B955153     | 15         | 0.412            | 10.46 | 0.032            | 0.81 |
| B955203     | 20         | 0.458            | 11.63 | 0.032            | 0.81 |
| B955253     | 25         | 0.515            | 13.08 | 0.032            | 0.81 |
| B955303     | 30         | 0.544            | 13.82 | 0.032            | 0.81 |
| B955403     | 40         | 0.649            | 16.48 | 0.053            | 1.35 |
| B955503     | 50         | 0.718            | 18.24 | 0.053            | 1.35 |





# Pro-Tekt™

## High Performance 300 V Braid Shield, Multiconductor



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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>B956023</b>   | 2          | 0.247            | 6.27  | 0.032            | 0.81 |
| <b>B956023N*</b> | 2          | 0.247            | 6.27  | 0.032            | 0.81 |
| <b>B956033</b>   | 3          | 0.259            | 6.58  | 0.032            | 0.81 |
| <b>B956033N*</b> | 3          | 0.259            | 6.58  | 0.032            | 0.81 |
| <b>B956043</b>   | 4          | 0.28             | 7.11  | 0.032            | 0.81 |
| <b>B956063</b>   | 6          | 0.328            | 8.33  | 0.032            | 0.81 |
| <b>B956083</b>   | 8          | 0.353            | 8.97  | 0.032            | 0.81 |
| <b>B956103</b>   | 10         | 0.405            | 10.29 | 0.032            | 0.81 |
| <b>B956153</b>   | 15         | 0.454            | 11.53 | 0.032            | 0.81 |
| <b>B956203</b>   | 20         | 0.511            | 12.98 | 0.032            | 0.81 |
| <b>B956253</b>   | 25         | 0.611            | 15.52 | 0.032            | 0.81 |
| <b>B956303</b>   | 30         | 0.644            | 16.36 | 0.053            | 1.35 |
| <b>B956403</b>   | 40         | 0.722            | 18.34 | 0.053            | 1.35 |
| <b>B956503</b>   | 60         | 0.792            | 20.12 | 0.053            | 1.35 |

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

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

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

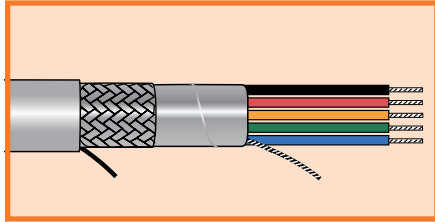
| Part Number      | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|------------------|------------|------------------|-------|------------------|------|
|                  |            | Inch             | mm    | Inch             | mm   |
| <b>B957023</b>   | 2          | 0.271            | 6.88  | 0.032            | 0.81 |
| <b>B957023N*</b> | 2          | 0.271            | 6.88  | 0.032            | 0.81 |
| <b>B957033</b>   | 3          | 0.285            | 7.24  | 0.032            | 0.81 |
| <b>B957033N*</b> | 3          | 0.285            | 7.24  | 0.032            | 0.81 |
| <b>B957043</b>   | 4          | 0.309            | 7.85  | 0.032            | 0.81 |
| <b>B957063</b>   | 6          | 0.364            | 9.25  | 0.032            | 0.81 |
| <b>B957083</b>   | 8          | 0.393            | 9.98  | 0.032            | 0.81 |
| <b>B957103</b>   | 10         | 0.453            | 11.51 | 0.032            | 0.81 |
| <b>B957153</b>   | 15         | 0.515            | 13.08 | 0.032            | 0.81 |
| <b>B957203</b>   | 20         | 0.616            | 15.65 | 0.053            | 1.35 |
| <b>B957253</b>   | 25         | 0.690            | 17.53 | 0.053            | 1.35 |
| <b>B957303</b>   | 30         | 0.728            | 18.49 | 0.053            | 1.35 |
| <b>B957403</b>   | 40         | 0.809            | 20.55 | 0.083            | 2.11 |
| <b>B956503</b>   | 60         | 0.792            | 20.12 | 0.053            | 1.35 |

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



# Pro-Tekt™

## High Performance 300 V Foil/Braid, Multiconductor



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- 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 grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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>B951024</b> | 2          | 0.165            | 4.19 | 0.032            | 0.81 |
| <b>B951034</b> | 3          | 0.171            | 4.34 | 0.032            | 0.81 |
| <b>B951044</b> | 4          | 0.180            | 4.57 | 0.032            | 0.81 |
| <b>B951064</b> | 6          | 0.201            | 5.11 | 0.032            | 0.81 |
| <b>B951074</b> | 7          | 0.201            | 5.11 | 0.032            | 0.81 |
| <b>B951084</b> | 8          | 0.212            | 5.38 | 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>B952024</b> | 2          | 0.173            | 4.39 | 0.032            | 0.81 |
| <b>B952034</b> | 3          | 0.179            | 4.55 | 0.032            | 0.81 |
| <b>B952044</b> | 4          | 0.189            | 4.80 | 0.032            | 0.81 |
| <b>B952064</b> | 6          | 0.213            | 5.41 | 0.032            | 0.81 |
| <b>B952074</b> | 7          | 0.213            | 5.41 | 0.032            | 0.81 |
| <b>B952084</b> | 8          | 0.225            | 5.72 | 0.032            | 0.81 |
| <b>B952104</b> | 10         | 0.251            | 6.38 | 0.032            | 0.81 |
| <b>B952154</b> | 15         | 0.275            | 6.98 | 0.032            | 0.81 |

#### 24 AWG (0.23 mm²)

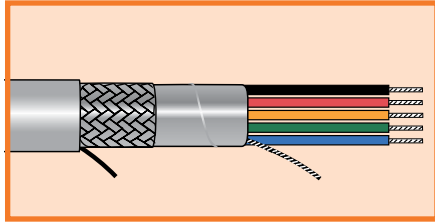
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part Number    | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|----------------|------------|------------------|-------|------------------|------|
|                |            | Inch             | mm    | Inch             | mm   |
| <b>B953024</b> | 2          | 0.183            | 4.65  | 0.032            | 0.81 |
| <b>B953034</b> | 3          | 0.190            | 4.83  | 0.032            | 0.81 |
| <b>B953044</b> | 4          | 0.202            | 5.13  | 0.032            | 0.81 |
| <b>B953064</b> | 6          | 0.228            | 5.79  | 0.032            | 0.81 |
| <b>B953084</b> | 8          | 0.242            | 6.15  | 0.032            | 0.81 |
| <b>B953104</b> | 10         | 0.271            | 6.88  | 0.032            | 0.81 |
| <b>B953154</b> | 15         | 0.298            | 7.57  | 0.032            | 0.81 |
| <b>B953204</b> | 20         | 0.327            | 8.31  | 0.032            | 0.81 |
| <b>B953254</b> | 25         | 0.359            | 9.12  | 0.032            | 0.81 |
| <b>B953304</b> | 30         | 0.377            | 9.58  | 0.032            | 0.81 |
| <b>B953404</b> | 40         | 0.417            | 10.59 | 0.032            | 0.81 |
| <b>B953504</b> | 50         | 0.456            | 11.58 | 0.032            | 0.81 |



# Pro-Tekt™

## High Performance 300 V Foil/Braid, Multiconductor



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- 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 grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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>B954024</b> | 2          | 0.195            | 4.95  | 0.032            | 0.81 |
| <b>B954034</b> | 3          | 0.203            | 5.16  | 0.032            | 0.81 |
| <b>B954044</b> | 4          | 0.216            | 5.49  | 0.032            | 0.81 |
| <b>B954064</b> | 6          | 0.246            | 6.25  | 0.032            | 0.81 |
| <b>B954084</b> | 8          | 0.262            | 6.65  | 0.032            | 0.81 |
| <b>B954104</b> | 10         | 0.295            | 7.49  | 0.032            | 0.81 |
| <b>B954154</b> | 15         | 0.326            | 8.28  | 0.032            | 0.81 |
| <b>B954204</b> | 20         | 0.358            | 9.09  | 0.032            | 0.81 |
| <b>B954254</b> | 25         | 0.395            | 10.03 | 0.032            | 0.81 |
| <b>B954304</b> | 30         | 0.416            | 10.57 | 0.032            | 0.81 |
| <b>B954404</b> | 40         | 0.461            | 11.71 | 0.032            | 0.81 |
| <b>B954504</b> | 50         | 0.511            | 12.98 | 0.032            | 0.81 |
| <b>B954604</b> | 60         | 0.587            | 14.91 | 0.053            | 1.35 |
| <b>B954704</b> | 70         | 0.629            | 15.98 | 0.053            | 1.35 |
| <b>B954804</b> | 80         | 0.664            | 16.87 | 0.053            | 1.35 |

### 20 AWG (0.56 mm<sup>2</sup>)

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

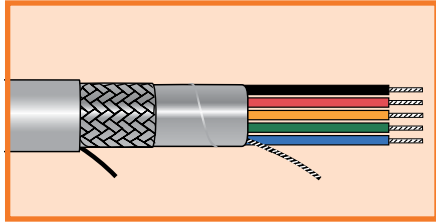
| Part Number    | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|----------------|------------|------------------|-------|------------------|------|
|                |            | Inch             | mm    | Inch             | mm   |
| <b>B955024</b> | 2          | 0.235            | 5.97  | 0.032            | 0.81 |
| <b>B955034</b> | 3          | 0.246            | 6.25  | 0.032            | 0.81 |
| <b>B955044</b> | 4          | 0.265            | 6.73  | 0.032            | 0.81 |
| <b>B955064</b> | 6          | 0.307            | 7.80  | 0.032            | 0.81 |
| <b>B955084</b> | 8          | 0.329            | 8.36  | 0.032            | 0.81 |
| <b>B955104</b> | 10         | 0.375            | 9.52  | 0.032            | 0.81 |
| <b>B955154</b> | 15         | 0.418            | 10.62 | 0.032            | 0.81 |
| <b>B955204</b> | 20         | 0.464            | 11.79 | 0.032            | 0.81 |
| <b>B955254</b> | 25         | 0.515            | 13.08 | 0.032            | 0.81 |
| <b>B955304</b> | 30         | 0.544            | 13.82 | 0.032            | 0.81 |
| <b>B955404</b> | 40         | 0.655            | 16.64 | 0.053            | 1.35 |
| <b>B955504</b> | 50         | 0.717            | 18.21 | 0.053            | 1.35 |
| <b>B955604</b> | 60         | 0.773            | 19.63 | 0.053            | 1.35 |





# Pro-Tekt™

## High Performance 300 V Foil/Braid, Multiconductor



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E
- 20, 18, 16 AWG: Chart D

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- 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 grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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>B956024</b>   | 2          | 0.253            | 6.43  | 0.032            | 0.81 |
| <b>B956024N*</b> | 2          | 0.253            | 6.43  | 0.032            | 0.81 |
| <b>B956034</b>   | 3          | 0.265            | 6.73  | 0.032            | 0.81 |
| <b>B956034N*</b> | 3          | 0.265            | 6.73  | 0.032            | 0.81 |
| <b>B956044</b>   | 4          | 0.286            | 7.26  | 0.032            | 0.81 |
| <b>B956064</b>   | 6          | 0.334            | 8.48  | 0.032            | 0.81 |
| <b>B956084</b>   | 8          | 0.359            | 9.12  | 0.032            | 0.81 |
| <b>B956104</b>   | 10         | 0.411            | 10.44 | 0.032            | 0.81 |
| <b>B956154</b>   | 15         | 0.460            | 11.68 | 0.032            | 0.81 |
| <b>B956204</b>   | 20         | 0.511            | 12.98 | 0.032            | 0.81 |
| <b>B956254</b>   | 25         | 0.611            | 15.52 | 0.053            | 1.35 |
| <b>B956304</b>   | 30         | 0.650            | 16.51 | 0.053            | 1.35 |
| <b>B956404</b>   | 40         | 0.721            | 18.31 | 0.053            | 1.35 |
| <b>B956603</b>   |            | 0.921            | 23.39 | 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   |
| <b>B957024</b>   | 2          | 0.277            | 7.04  | 0.032            | 0.81 |
| <b>B957024N*</b> | 2          | 0.277            | 7.04  | 0.032            | 0.81 |
| <b>B957034</b>   | 3          | 0.291            | 7.39  | 0.032            | 0.81 |
| <b>B957034N*</b> | 3          | 0.291            | 7.39  | 0.032            | 0.81 |
| <b>B957044</b>   | 4          | 0.315            | 8.00  | 0.032            | 0.81 |
| <b>B957064</b>   | 6          | 0.370            | 9.40  | 0.032            | 0.81 |
| <b>B957084</b>   | 8          | 0.399            | 10.13 | 0.032            | 0.81 |
| <b>B957104</b>   | 10         | 0.459            | 11.66 | 0.032            | 0.81 |
| <b>B957154</b>   | 15         | 0.515            | 13.08 | 0.032            | 0.81 |
| <b>B957204</b>   | 20         | 0.616            | 15.65 | 0.053            | 1.35 |
| <b>B957254</b>   | 25         | 0.689            | 17.50 | 0.053            | 1.35 |

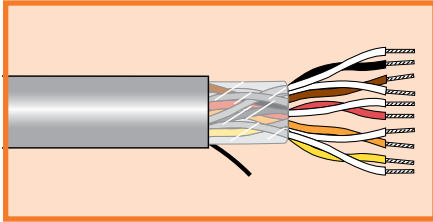
\*Conductors color-coded per international standards: brown, blue, green/yellow.





# Pro-Tekt™

## High Performance 300 V Unshielded, Multipair



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 24, 22 AWG: Chart B
- 20, 18 AWG: Chart A

### Materials

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

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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>B963011</b> | 1          | 0.155            | 3.94  | 0.032            | 0.81 |
| <b>B963021</b> | 2          | 0.211            | 5.36  | 0.032            | 0.81 |
| <b>B963031</b> | 3          | 0.223            | 5.66  | 0.032            | 0.81 |
| <b>B963041</b> | 4          | 0.242            | 6.15  | 0.032            | 0.81 |
| <b>B963051</b> | 5          | 0.263            | 6.68  | 0.032            | 0.81 |
| <b>B963061</b> | 6          | 0.285            | 7.24  | 0.032            | 0.81 |
| <b>B963091</b> | 9          | 0.331            | 8.41  | 0.032            | 0.81 |
| <b>B963111</b> | 11         | 0.356            | 9.04  | 0.032            | 0.81 |
| <b>B963151</b> | 15         | 0.400            | 10.16 | 0.032            | 0.81 |
| <b>B963271</b> | 27         | 0.511            | 12.98 | 0.032            | 0.81 |
| <b>B963771</b> | 77         | 0.903            | 22.94 | 0.083            | 0.81 |

### 22 AWG (0.35 mm<sup>2</sup>)

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

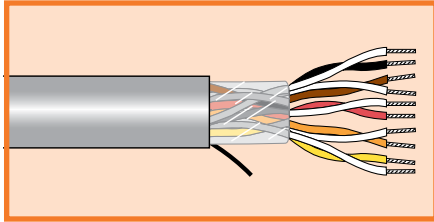
| Part Number    | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|----------------|------------|------------------|-------|------------------|------|
|                |            | Inch             | mm    | Inch             | mm   |
| <b>B964011</b> | 1          | 0.167            | 4.24  | 0.032            | 0.81 |
| <b>B964021</b> | 2          | 0.231            | 5.87  | 0.032            | 0.81 |
| <b>B964031</b> | 3          | 0.244            | 6.20  | 0.032            | 0.81 |
| <b>B964041</b> | 4          | 0.266            | 6.76  | 0.032            | 0.81 |
| <b>B964051</b> | 5          | 0.290            | 7.37  | 0.032            | 0.81 |
| <b>B964061</b> | 6          | 0.315            | 8.00  | 0.032            | 0.81 |
| <b>B964151</b> | 15         | 0.446            | 11.33 | 0.032            | 0.81 |





# Pro-Tekt™

## High Performance 300 V Unshielded, Multipair



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 24, 22 AWG: Chart B
- 20, 18 AWG: Chart A

### Materials

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

### Availability

- 50, 100, 500, 1000 m

### 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 Number    | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|----------------|------------|------------------|-------|------------------|------|
|                |            | Inch             | mm    | Inch             | mm   |
| <b>B965021</b> | 2          | 0.297            | 7.54  | 0.032            | 0.81 |
| <b>B965031</b> | 3          | 0.315            | 8.00  | 0.032            | 0.81 |
| <b>B965061</b> | 6          | 0.414            | 10.52 | 0.032            | 0.81 |
| <b>B965091</b> | 9          | 0.486            | 12.34 | 0.032            | 0.81 |
| <b>B965121</b> | 12         | 0.544            | 13.82 | 0.032            | 0.81 |

#### 18 AWG (0.81 mm²)

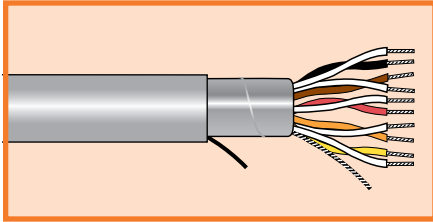
Stranding: 16/30 (16 x 0.25 mm)  
 Insulation Thickness: 0.016 (0.41 mm)

| Part Number    | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|----------------|------------|------------------|-------|------------------|------|
|                |            | Inch             | mm    | Inch             | mm   |
| <b>B966021</b> | 2          | 0.326            | 8.28  | 0.032            | 0.81 |
| <b>B966031</b> | 3          | 0.347            | 8.81  | 0.032            | 0.81 |
| <b>B966061</b> | 6          | 0.459            | 11.66 | 0.032            | 0.81 |
| <b>B966091</b> | 9          | 0.54             | 13.72 | 0.053            | 1.35 |
| <b>B966121</b> | 12         | 0.647            | 16.43 | 0.053            | 1.35 |



# Pro-Tekt™

## High Performance 300 V Foil Shield, Multipair



IEC EN 60332-1  
IEC EN 60332-2  
UL CM  
UL AWM 2464 VW-1

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B
- 20, 18 AWG: Chart A

### 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 grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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   |
| B961022  | 2     | 0.186            | 4.72 | 0.032            | 0.81 |
| B961032  | 3     | 0.195            | 4.95 | 0.032            | 0.81 |
| B961042  | 4     | 0.210            | 5.33 | 0.032            | 0.81 |
| B961052  | 5     | 0.227            | 5.77 | 0.032            | 0.81 |
| B961062  | 6     | 0.245            | 6.22 | 0.032            | 0.81 |

#### 26 AWG (0.14 mm<sup>2</sup>)

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   |
| B962022  | 2     | 0.199            | 5.05 | 0.032            | 0.81 |
| B962032  | 3     | 0.209            | 5.31 | 0.032            | 0.81 |
| B962042  | 4     | 0.226            | 5.74 | 0.032            | 0.81 |
| B962052  | 5     | 0.245            | 6.22 | 0.032            | 0.81 |
| B962062  | 6     | 0.264            | 6.71 | 0.032            | 0.81 |

#### 24 AWG (0.23 mm<sup>2</sup>)

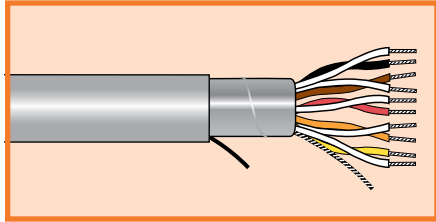
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------|-------|------------------|-------|------------------|------|
|          |       | Inch             | mm    | Inch             | mm   |
| B963012  | 1     | 0.159            | 4.04  | 0.032            | 0.81 |
| B963022  | 2     | 0.215            | 5.46  | 0.032            | 0.81 |
| B963032  | 3     | 0.227            | 5.77  | 0.032            | 0.81 |
| B963042  | 4     | 0.246            | 6.25  | 0.032            | 0.81 |
| B963052  | 5     | 0.267            | 6.78  | 0.032            | 0.81 |
| B963062  | 6     | 0.289            | 7.34  | 0.032            | 0.81 |
| B963092  | 9     | 0.335            | 8.51  | 0.032            | 0.81 |
| B963112  | 11    | 0.360            | 9.14  | 0.032            | 0.81 |
| B963152  | 15    | 0.404            | 10.26 | 0.032            | 0.81 |
| B963192  | 19    | 0.432            | 10.97 | 0.032            | 0.81 |
| B963272  | 27    | 0.515            | 13.08 | 0.32             | 0.81 |



# Pro-Tekt™

## High Performance 300 V Foil Shield, Multipair



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B
- 20, 18 AWG: Chart A

### 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 grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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>B964012</b> | 1     | 0.171            | 4.34  | 0.032            | 0.81 |
| <b>B964022</b> | 2     | 0.235            | 5.97  | 0.032            | 0.81 |
| <b>B964032</b> | 3     | 0.248            | 6.30  | 0.032            | 0.81 |
| <b>B964042</b> | 4     | 0.270            | 6.86  | 0.032            | 0.81 |
| <b>B964052</b> | 5     | 0.294            | 7.47  | 0.032            | 0.81 |
| <b>B964062</b> | 6     | 0.319            | 8.10  | 0.032            | 0.81 |
| <b>B964092</b> | 9     | 0.371            | 9.42  | 0.032            | 0.81 |
| <b>B964112</b> | 11    | 0.399            | 10.13 | 0.032            | 0.81 |
| <b>B964152</b> | 15    | 0.450            | 11.43 | 0.032            | 0.81 |
| <b>B964192</b> | 19    | 0.482            | 12.24 | 0.032            | 0.81 |
| <b>B964272</b> | 27    | 0.618            | 15.70 | 0.053            | 1.35 |

#### 20 AWG (0.56 mm<sup>2</sup>)

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>B965022</b> | 2     | 0.301            | 7.65  | 0.032            | 0.81 |
| <b>B965032</b> | 3     | 0.319            | 8.10  | 0.032            | 0.81 |
| <b>B965062</b> | 6     | 0.418            | 10.62 | 0.032            | 0.81 |
| <b>B965092</b> | 9     | 0.490            | 12.45 | 0.032            | 0.81 |
| <b>B965122</b> | 12    | 0.548            | 13.92 | 0.032            | 0.81 |
| <b>B965192</b> | 19    | 0.688            | 17.48 | 0.053            | 1.35 |

#### 18 AWG (0.81 mm<sup>2</sup>)

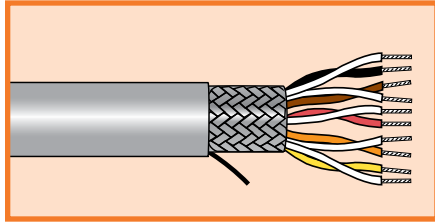
Stranding: 16/30 (16 x 0.25 mm)  
 Insulation thickness: 0.016 (0.41 mm)

| Part No.       | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------------|-------|------------------|-------|------------------|------|
|                |       | Inch             | mm    | Inch             | mm   |
| <b>B966032</b> | 3     | 0.351            | 8.92  | 0.032            | 0.81 |
| <b>B966062</b> | 6     | 0.463            | 11.76 | 0.032            | 0.81 |



# Pro-Tekt™

## High Performance 300 V Braid Shield, Multipair



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B
- 20, 18 AWG: Chart A

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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>B961023</b> | 2     | 0.204            | 5.18 | 0.032            | 0.81 |
| <b>B961033</b> | 3     | 0.213            | 5.41 | 0.032            | 0.81 |
| <b>B961043</b> | 4     | 0.228            | 5.79 | 0.032            | 0.81 |
| <b>B961053</b> | 5     | 0.245            | 6.22 | 0.032            | 0.81 |
| <b>B961063</b> | 6     | 0.263            | 6.68 | 0.032            | 0.81 |

#### 26 AWG (0.14 mm<sup>2</sup>)

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>B962023</b> | 2     | 0.217            | 5.51 | 0.032            | 0.81 |
| <b>B962033</b> | 3     | 0.227            | 5.77 | 0.032            | 0.81 |
| <b>B962043</b> | 4     | 0.244            | 6.20 | 0.032            | 0.81 |
| <b>B962053</b> | 5     | 0.263            | 6.68 | 0.032            | 0.81 |
| <b>B962063</b> | 6     | 0.282            | 7.16 | 0.032            | 0.81 |

#### 24 AWG (0.32 mm<sup>2</sup>)

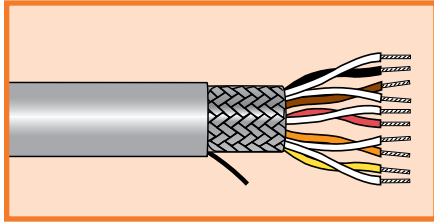
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part No.       | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------------|-------|------------------|-------|------------------|------|
|                |       | Inch             | mm    | Inch             | mm   |
| <b>B963013</b> | 1     | 0.177            | 4.50  | 0.032            | 0.81 |
| <b>B963023</b> | 2     | 0.233            | 5.92  | 0.032            | 0.81 |
| <b>B963033</b> | 3     | 0.245            | 6.22  | 0.032            | 0.81 |
| <b>B963043</b> | 4     | 0.264            | 6.71  | 0.032            | 0.81 |
| <b>B963053</b> | 5     | 0.285            | 7.24  | 0.032            | 0.81 |
| <b>B963063</b> | 6     | 0.307            | 7.80  | 0.032            | 0.81 |
| <b>B963093</b> | 9     | 0.353            | 8.97  | 0.032            | 0.81 |
| <b>B963113</b> | 11    | 0.378            | 9.60  | 0.032            | 0.81 |
| <b>B963153</b> | 15    | 0.422            | 10.72 | 0.032            | 0.81 |
| <b>B963193</b> | 19    | 0.450            | 11.43 | 0.032            | 0.81 |
| <b>B963273</b> | 27    | 0.539            | 13.69 | 0.032            | 0.81 |



# Pro-Tekt™

## High Performance 300 V Braid Shield, Multipair



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B
- 20, 18 AWG: Chart A

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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>B964013</b> | 1     | 0.189            | 4.80  | 0.032            | 0.81 |
| <b>B964023</b> | 2     | 0.253            | 6.43  | 0.032            | 0.81 |
| <b>B964033</b> | 3     | 0.266            | 6.76  | 0.032            | 0.81 |
| <b>B964043</b> | 4     | 0.288            | 7.32  | 0.032            | 0.81 |
| <b>B964053</b> | 5     | 0.312            | 7.92  | 0.032            | 0.81 |
| <b>B964063</b> | 6     | 0.337            | 8.56  | 0.032            | 0.81 |
| <b>B964093</b> | 9     | 0.389            | 9.88  | 0.032            | 0.81 |
| <b>B964113</b> | 11    | 0.417            | 10.59 | 0.032            | 0.81 |
| <b>B964153</b> | 15    | 0.474            | 12.04 | 0.032            | 0.81 |
| <b>B964193</b> | 19    | 0.506            | 12.85 | 0.032            | 0.81 |
| <b>B964273</b> | 27    | 0.642            | 16.31 | 0.053            | 1.35 |

#### 20 AWG (0.56 mm<sup>2</sup>)

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>B965023</b> | 2     | 0.319            | 8.10  | 0.032            | 0.81 |
| <b>B965033</b> | 3     | 0.337            | 8.56  | 0.032            | 0.81 |
| <b>B965063</b> | 6     | 0.436            | 11.07 | 0.032            | 0.81 |
| <b>B965093</b> | 9     | 0.514            | 13.06 | 0.032            | 0.81 |
| <b>B965123</b> | 12    | 0.572            | 14.53 | 0.032            | 0.81 |
| <b>B965193</b> | 19    | 0.719            | 18.26 | 0.053            | 1.35 |

#### 18 AWG (0.81 mm<sup>2</sup>)

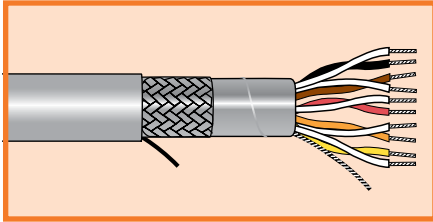
Stranding: 16/30 (16 x 0.25 mm)  
Insulation thickness: 0.016 (0.41 mm)

| Part No.       | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------------|-------|------------------|-------|------------------|------|
|                |       | Inch             | mm    | Inch             | mm   |
| <b>B966033</b> | 3     | 0.369            | 9.37  | 0.032            | 0.81 |
| <b>B966063</b> | 6     | 0.487            | 12.37 | 0.032            | 0.81 |



# Pro-Tekt™

## High Performance 300 V Foil/Braid, Multipair



IEC EN 60332-1  
IEC EN 60332-2  
UL CM  
UL AWM 2464 VW-1

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B
- 20, 18 AWG: Chart A

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- 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 grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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 mm<sup>2</sup>)

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   |
| B961024  | 2     | 0.210            | 5.33 | 0.032            | 0.81 |
| B961034  | 3     | 0.219            | 5.56 | 0.032            | 0.81 |
| B961044  | 4     | 0.234            | 5.94 | 0.032            | 0.81 |
| B961054  | 5     | 0.251            | 6.38 | 0.032            | 0.81 |
| B961064  | 6     | 0.269            | 6.83 | 0.032            | 0.81 |

#### 26 AWG (0.14 mm<sup>2</sup>)

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   |
| B962024  | 2     | 0.210            | 5.33 | 0.032            | 0.81 |
| B962034  | 3     | 0.219            | 5.56 | 0.032            | 0.81 |
| B962044  | 4     | 0.234            | 5.94 | 0.032            | 0.81 |
| B962054  | 5     | 0.251            | 6.38 | 0.032            | 0.81 |
| B962064  | 6     | 0.269            | 6.83 | 0.032            | 0.81 |

#### 24 AWG (0.23 mm<sup>2</sup>)

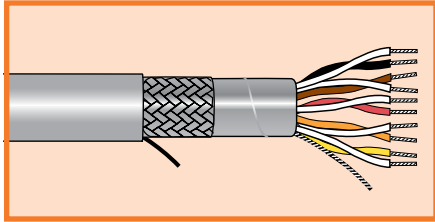
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter |       | Jacket Thickness |      |
|----------|-------|------------------|-------|------------------|------|
|          |       | Inch             | mm    | Inch             | mm   |
| B963014  | 1     | 0.183            | 4.65  | 0.032            | 0.81 |
| B963024  | 2     | 0.239            | 6.07  | 0.032            | 0.81 |
| B963034  | 3     | 0.251            | 6.38  | 0.032            | 0.81 |
| B963044  | 4     | 0.270            | 6.86  | 0.032            | 0.81 |
| B963054  | 5     | 0.291            | 7.39  | 0.032            | 0.81 |
| B963064  | 6     | 0.313            | 7.95  | 0.032            | 0.81 |
| B963094  | 9     | 0.359            | 9.12  | 0.032            | 0.81 |
| B963114  | 11    | 0.384            | 9.75  | 0.032            | 0.81 |
| B963154  | 15    | 0.428            | 10.87 | 0.032            | 0.81 |
| B963194  | 19    | 0.456            | 11.58 | 0.032            | 0.81 |
| B963274  | 27    | 0.539            | 13.69 | 0.032            | 0.81 |
| B963514  | 51    | 0.738            | 18.75 | 0.053            | 1.35 |



# Pro-Tekt™

## High Performance 300 V Foil/Braid, Multipair



**IEC EN 60332-1**  
**IEC EN 60332-2**  
**UL CM**  
**UL AWM 2464 VW-1**

### Operating Temperature

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

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B
- 20, 18 AWG: Chart A

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- 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 grey PVC jacket
- UV resistant

### Availability

- 50, 100, 500, 1000 m

### 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   |
| <b>B964014</b> | 1     | 0.195            | 4.95  | 0.032            | 0.81 |
| <b>B964024</b> | 2     | 0.259            | 6.58  | 0.032            | 0.81 |
| <b>B964034</b> | 3     | 0.272            | 6.91  | 0.032            | 0.81 |
| <b>B964044</b> | 4     | 0.294            | 7.47  | 0.032            | 0.81 |
| <b>B964054</b> | 5     | 0.318            | 8.08  | 0.032            | 0.81 |
| <b>B964064</b> | 6     | 0.343            | 8.71  | 0.032            | 0.81 |
| <b>B964094</b> | 9     | 0.395            | 10.03 | 0.032            | 0.81 |
| <b>B964114</b> | 11    | 0.423            | 10.74 | 0.032            | 0.81 |
| <b>B964154</b> | 15    | 0.474            | 12.04 | 0.032            | 0.81 |
| <b>B964194</b> | 19    | 0.506            | 12.85 | 0.032            | 0.81 |
| <b>B964274</b> | 27    | 0.648            | 16.46 | 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   |
| <b>B965024</b> | 2     | 0.325            | 8.25  | 0.032            | 0.81 |
| <b>B965034</b> | 3     | 0.343            | 8.71  | 0.032            | 0.81 |
| <b>B965064</b> | 6     | 0.442            | 11.23 | 0.032            | 0.81 |
| <b>B965094</b> | 9     | 0.514            | 13.06 | 0.032            | 0.81 |
| <b>B965194</b> | 19    | 0.718            | 18.24 | 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   |
| <b>B966024</b> | 2     | 0.354            | 8.99  | 0.032            | 0.81 |
| <b>B966034</b> | 3     | 0.375            | 9.52  | 0.032            | 0.81 |
| <b>B966064</b> | 6     | 0.487            | 12.37 | 0.032            | 0.81 |
| <b>B966094</b> | 9     | 0.610            | 15.49 | 0.053            | 1.35 |
| <b>B966274</b> | 27    | 1.007            | 25.58 | 0.083            | 2.11 |





# 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       | State + 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     |          |                      |

## Multipair Cables

Chart B

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

# 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     |     |            |            |            |            |

# FIT<sup>®</sup>-221L LSZH Heat-Shrink Tubing



FIT-221L LSZH heat-shrink tubing is a highly flexible, environmentally friendly, flame-retardant option to standard tubing. It contains no lead, no halogens, has low-smoke generation, and produces no toxic fumes when burned, making it ideal in helping OEMs and maintenance personnel satisfy CA Prop 65 and RoHS requirements in a variety of applications. The tubing also meets NASA's definition of low outgassing.

## UL 224 UL VW-1

### Operating Temperature

- -55°C to +125°C (UL)

### Shrink Temperature

- 100°C min.
- 110°C full recovery

### Color

- Black

### Material

- Cross-linked polyolefin

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm<sup>2</sup>)
- Elongation: 200% min
- Longitudinal change: -10% to 0%
- Flame retarded

### Chemical Properties

- Corrosive effect: none
- Water absorption: 0.7% max.
- Low outgassing: Meets NASA's definition of low outgassing with TML of 1.0% and CVCM of less than 0.01%
- Lead free
- Halogen free
- Antimony free

### Electrical Properties

- 600 V (UL)
- Volume resistivity: 10<sup>14</sup> ohm-cm

| Part No.             | Supplied ID, Min. |       | Recovered ID, Max. |       | Recovered Wall Thickness, Nom. |      | Availability |      |
|----------------------|-------------------|-------|--------------------|-------|--------------------------------|------|--------------|------|
|                      | Inch              | mm    | Inch               | mm    | Inch                           | mm   | Feet         | m    |
| <b>FIT-221L-3/64</b> | 0.046             | 1.17  | 0.023              | 0.58  | 0.016                          | 0.41 | 1000         | 305  |
| <b>FIT-221L-1/16</b> | 0.063             | 1.60  | 0.031              | 0.79  | 0.017                          | 0.43 | 1000         | 305  |
| <b>FIT-221L-3/32</b> | 0.093             | 2.36  | 0.046              | 1.17  | 0.020                          | 0.51 | 500          | 152  |
| <b>FIT-221L-1/8</b>  | 0.125             | 3.18  | 0.062              | 1.57  | 0.020                          | 0.51 | 200          | 60.9 |
| <b>FIT-221L-3/16</b> | 0.187             | 4.75  | 0.093              | 2.36  | 0.020                          | 0.51 | 500          | 152  |
| <b>FIT-221L-1/4</b>  | 0.250             | 6.35  | 0.125              | 3.18  | 0.025                          | 0.64 | 200          | 60.9 |
| <b>FIT-221L-3/8</b>  | 0.375             | 9.53  | 0.187              | 4.75  | 0.025                          | 0.64 | 200          | 60.9 |
| <b>FIT-221L-1/2</b>  | 0.500             | 12.70 | 0.250              | 6.35  | 0.025                          | 0.64 | 200          | 60.9 |
| <b>FIT-221L-3/4</b>  | 0.750             | 19.05 | 0.375              | 9.53  | 0.030                          | 0.76 | 200          | 60.9 |
| <b>FIT-221L-1IN</b>  | 1.000             | 25.40 | 0.500              | 12.70 | 0.035                          | 0.89 | 200          | 60.9 |

## FIT-FILL Adhesive

A unique adhesive filler, FIT-FILL is amber bead-like balls of adhesive that are ideal for use when additional adhesive is needed, or when the tubing does not effectively cover the desired locations. FIT-FILL is an ideal complement to FIT heat-shrink tubing for applications involving multiple wires in a tubing array, where the tubing's inner adhesive does not touch the inner wires. FIT-FILL aids in creating a better tubing-to-cable seal to prevent water entry, while providing extra protection to maintain the integrity of the cable.

### Part No.

- FITFILL1

### Material

- Modified Polyamide

### Color

- Amber

### Dimensions

- ID: 0.138" (3.51 mm)
- OD: 0.295" (7.49 mm)
- Opening: 0.055" (1.40 mm)
- Length: 0.197" (5 mm)

### Operating Temperature

- -10°C to 105°C



### Shrink Temperature

- 90°C

### Availability

- Packs of 1000

# Heat-Shrink Tubing for Every Need

| Material   | Features  | Shrink Temperature | Shrink Ratio (approx.) | FIT Family |
|--|---|--------------------|------------------------|------------|
| <b>Single-Wall Cross-linked Polyolefin for General-Purpose Use</b> |   |                    |                        |            |
| <b>Thin-wall irradiated polyolefin</b>                             | LSZH: reduced smoke generation and gas emission<br>Low outgassing   | -55°C to 105°C     | 2:1                    | FIT-221L   |
| <b>Cross-linked polyolefin</b>                                     | General-purpose heat-shrink tubing<br>Range of shrink ratios  | 90°C               | 2:1                    | FIT-221    |
|  |   | 90°C               | 4:1                    | FIT-421    |
| <b>Flame-retardant cross-linked polyolefin</b>                     | Low shrink temp<br>Passes UL VW-1 flame test  | 90°C               | 2:1                    | FIT-221V   |
|  |   | 90°C               | 3:1                    | FIT-321V   |
| <b>Cross-linked polyolefin</b>                                     | Approved for 600-V ground lead identification<br>Green with yellow stripe<br>Passes UL VW-1 flame test  | 90°C               | 2:1                    | FIT-260    |
| <b>Semirigid cross-linked polyolefin</b>                           | 30% stronger and 25% stiffer than standard polyolefin   | 110°C              | 2:1                    | FIT-295    |
| <b>Dual-Wall Polyolefin for Additional Sealing</b>                 |   |                    |                        |            |
| <b>Surface cross-linked, dual extruded</b>                         | Meltable inner wall to encapsulate without adhesive   | 140°C              | 2.5:1                  | FIT-300    |
|  |   | 110°C              | 3:1                    | FIT-321    |
|  |   | 121°C              | 5.6:1                  | FIT-621    |
| <b>Bonding, thermoplastic adhesive lined</b>                       | Bonds to most materials<br>High voltage: to 2 kV at 90°C continuous use   | 120°C              | 3:1                    | FIT-700    |
| <b>Bonding, adhesive lined</b>                                     | Permanent water and corrosion protection  | 110°C              | 2:1                    | FIT-750    |
| <b>Special-Application Tubing</b>                                  |   |                    |                        |            |
| <b>Irradiated PVC</b>  | Low shrink temperature<br>Passes UL VW-1 flame test<br>30% stronger than standard polyolefin  | 100°C              | 2:1                    | FIT-105    |
| <b>Cross-linked PVDF</b>   | High shrink temperature<br>Fast recovery time<br>Excellent chemical, heat, and flame resistance<br>Passes UL VW-1 flame test<br>3x the tensile strength of standard polyolefin  | 170°C              | 2:1                    | FIT-350    |
| <b>FEP</b>   | High shrink temperature<br>Excellent chemical resistance<br>Excellent dielectric properties<br>Thinnest wall thickness available  | 200°C              | 1.2:1                  | FIT-400    |
| <b>PTFE</b>  | High shrink temperature<br>Excellent chemical resistance<br>Excellent dielectric properties<br>Very thin wall thickness   | 250°C              | 1.5:1                  | FIT-500    |
| <b>Chlorinated polyolefin</b>                                      | Highly flexible<br>Oil and abrasion resistant<br>Passes UL VW-1 flame test  | 130°C              | 2:1                    | FIT-600    |
| <b>Flexible fluoroelastomer</b>                                    | High shrink temperature<br>Excellent chemical resistance<br>Flexible  | 120°C              | 2:1                    | FIT-650    |
| <b>Polyethylene/polyester</b>                                      | Superior abrasion resistance<br>Excellent flexibility<br>Resists harsh environments   | 80°C               | 2:1                    | FIT-FABRIC |
| <b>Cross-linked silicone rubber</b>                                | High flexibility available<br>Pliable<br>Scrape abrasion resistant<br>Passes UL VW-1 flame test   | 200°C              | 1.7:1                  | FIT-FLEX   |
| <b>Cross-linked PVDF</b>   | Transparent after shrink<br>Fast recovery time<br>Excellent chemical, heat, and flame resistance<br>Passes UL VW-1 flame test<br>2x the tensile strength of standard polyolefin | 150°C              | 2:1                    | FIT-CLEAR  |

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