

# 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.

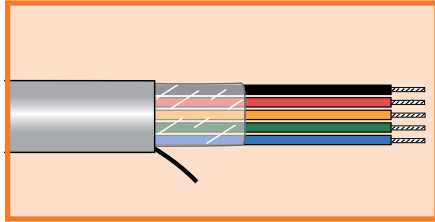
### Application:

- 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)

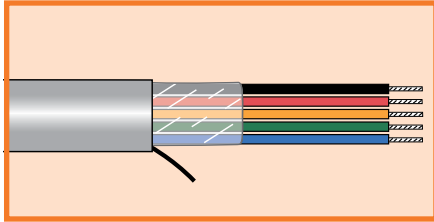
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

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



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## High Performance 300 V Unshielded, Multiconductor



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

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

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

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- 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)

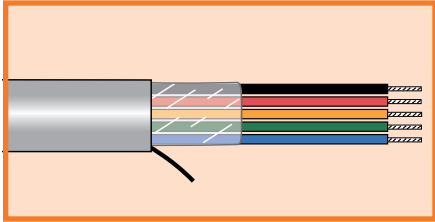
Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.016 (0.41 mm)

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



# Pro-Tekt™

## High Performance 300 V Unshielded, Multiconductor



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**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)

### 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)

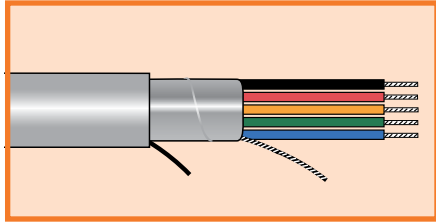
Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>B957021</b>	2	0.249	6.32	0.032	0.81
<b>B957021N</b>	2	0.249	6.32	0.032	0.81
<b>B957031</b>	3	0.263	6.68	0.032	0.81
<b>B957031N</b>	3	0.263	6.68	0.032	0.81
<b>B957041</b>	4	0.287	7.29	0.032	0.81
<b>B957061</b>	6	0.342	8.69	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

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

# Pro-Tekt™



## High Performance 300 V Foil Shielded, 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
- 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)

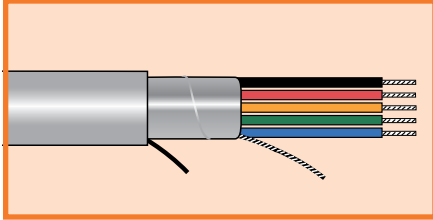
Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>B953022</b>	2	0.159	4.04	0.032	0.81
<b>B953032</b>	3	0.166	4.22	0.032	0.81
<b>B953042</b>	4	0.178	4.52	0.032	0.81
<b>B953062</b>	6	0.204	5.18	0.032	0.81
<b>B953082</b>	8	0.218	5.54	0.032	0.81
<b>B953102</b>	10	0.247	6.27	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





# Pro-Tekt™

## High Performance 300 V Foil Shielded, Multiconductor



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UL CM  
UL AWM 2464 VW-1

### Operating Temperature

- -30°C to +80°C (AWM)
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### 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 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>)

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

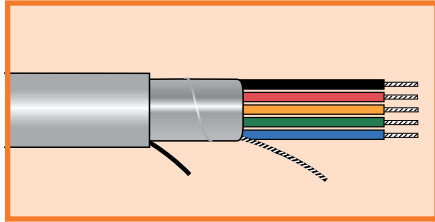
Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
B955022	2	0.211	5.36	0.032	0.81
B955032	3	0.222	5.64	0.032	0.81
B955042	4	0.241	6.12	0.032	0.81
B955062	6	0.283	7.19	0.032	0.81
B955082	8	0.305	7.75	0.032	0.81
B955102	10	0.351	8.92	0.032	0.81
B955152	15	0.394	10.01	0.032	0.81
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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## High Performance 300 V Foil Shielded, Multiconductor



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**UL AWM 2464 VW-1**

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- 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>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.

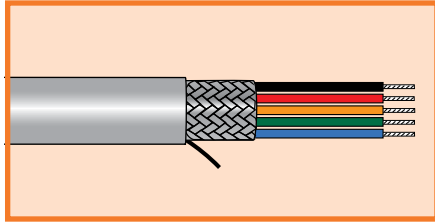






# Pro-Tekt™

## 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
B951023	2	0.159	4.04	0.032	0.81
B951033	3	0.165	4.19	0.032	0.81
B951043	4	0.174	4.42	0.032	0.81
B951063	6	0.195	4.95	0.032	0.81
B951073	7	0.195	4.95	0.032	0.81
B951083	8	0.206	5.23	0.032	0.81

#### 26 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
B952023	2	0.167	4.24	0.032	0.81
B952033	3	0.173	4.39	0.032	0.81
B952043	4	0.183	4.65	0.032	0.81
B952063	6	0.207	5.26	0.032	0.81
B952073	7	0.207	5.26	0.032	0.81
B952083	8	0.219	5.56	0.032	0.81
B952103	10	0.245	6.22	0.032	0.81
B952153	15	0.269	6.83	0.032	0.81

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

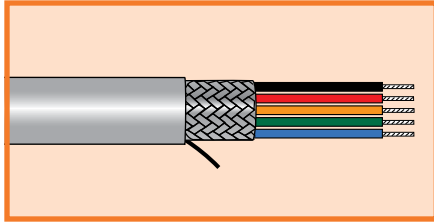
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

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



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## 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)

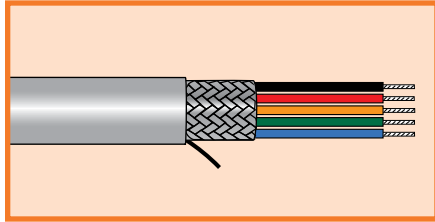
Stranding: 7/28 (7 x 0.32 mm)  
 Insulation thickness: 0.016 (0.41 mm)

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)

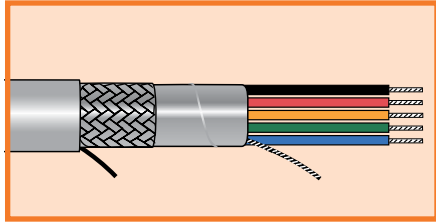
Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>B957023</b>	2	0.271	6.88	0.032	0.81
<b>B957023N*</b>	2	0.271	6.88	0.032	0.81
<b>B957033</b>	3	0.285	7.24	0.032	0.81
<b>B957033N*</b>	3	0.285	7.24	0.032	0.81
<b>B957043</b>	4	0.309	7.85	0.032	0.81
<b>B957063</b>	6	0.364	9.25	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

\*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)

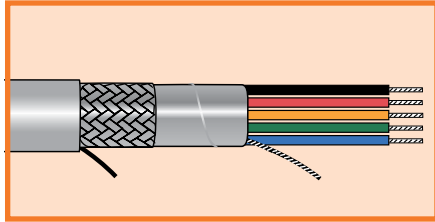
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

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)

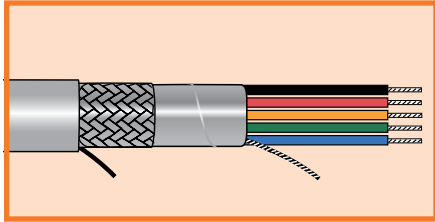
Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>B955024</b>	2	0.235	5.97	0.032	0.81
<b>B955034</b>	3	0.246	6.25	0.032	0.81
<b>B955044</b>	4	0.265	6.73	0.032	0.81
<b>B955064</b>	6	0.307	7.80	0.032	0.81
<b>B955084</b>	8	0.329	8.36	0.032	0.81
<b>B955104</b>	10	0.375	9.52	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 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>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 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>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

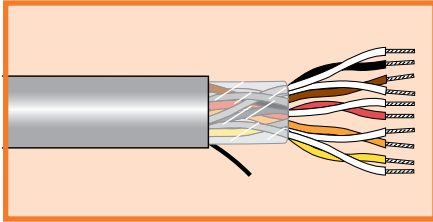
\*Conductors color-coded per international standards: brown, blue, green/yellow.





# 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	Pairs	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)

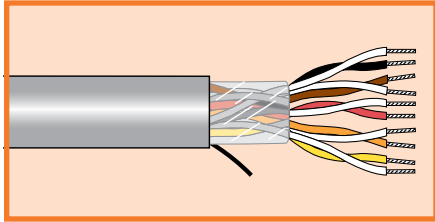
Part Number	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>B964011</b>	1	0.167	4.24	0.032	0.81
<b>B964021</b>	2	0.231	5.87	0.032	0.81
<b>B964031</b>	3	0.244	6.20	0.032	0.81
<b>B964041</b>	4	0.266	6.76	0.032	0.81
<b>B964051</b>	5	0.290	7.37	0.032	0.81
<b>B964061</b>	6	0.315	8.00	0.032	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 mm<sup>2</sup>)

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

Part Number	Pairs	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 mm<sup>2</sup>)

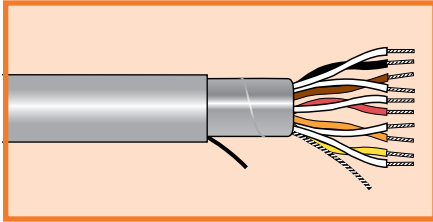
Stranding: 16/30 (16 x 0.25 mm)  
Insulation Thickness: 0.016 (0.41 mm)

Part Number	Pairs	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>)

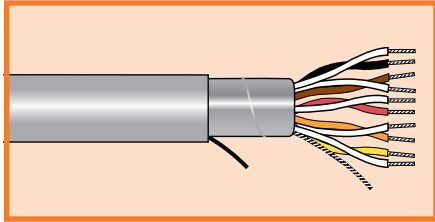
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

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>)

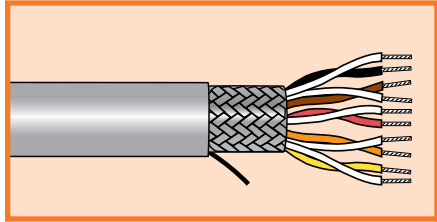
Stranding: 16/30 (16 x 0.25 mm)  
 Insulation thickness: 0.016 (0.41 mm)

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>)

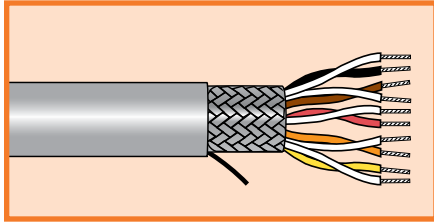
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

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>)

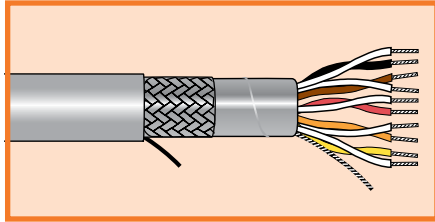
Stranding: 16/30 (16 x 0.25 mm)  
Insulation thickness: 0.016 (0.41 mm)

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
<b>B961024</b>	2	0.210	5.33	0.032	0.81
<b>B961034</b>	3	0.219	5.56	0.032	0.81
<b>B961044</b>	4	0.234	5.94	0.032	0.81
<b>B961054</b>	5	0.251	6.38	0.032	0.81
<b>B961064</b>	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
<b>B962024</b>	2	0.210	5.33	0.032	0.81
<b>B962034</b>	3	0.219	5.56	0.032	0.81
<b>B962044</b>	4	0.234	5.94	0.032	0.81
<b>B962054</b>	5	0.251	6.38	0.032	0.81
<b>B962064</b>	6	0.269	6.83	0.032	0.81

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

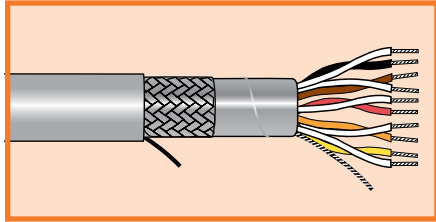
Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>B963014</b>	1	0.183	4.65	0.032	0.81
<b>B963024</b>	2	0.239	6.07	0.032	0.81
<b>B963034</b>	3	0.251	6.38	0.032	0.81
<b>B963044</b>	4	0.270	6.86	0.032	0.81
<b>B963054</b>	5	0.291	7.39	0.032	0.81
<b>B963064</b>	6	0.313	7.95	0.032	0.81
<b>B963094</b>	9	0.359	9.12	0.032	0.81
<b>B963114</b>	11	0.384	9.75	0.032	0.81
<b>B963154</b>	15	0.428	10.87	0.032	0.81
<b>B963194</b>	19	0.456	11.58	0.032	0.81
<b>B963274</b>	27	0.539	13.69	0.032	0.81
<b>B963514</b>	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 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>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 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>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 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>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 Low outgassing	-55°C to 105°C	2:1	FIT-221L
<b>Cross-linked polyolefin</b>	General-purpose heat-shrink tubing 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 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 Green with yellow stripe 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>	Melttable 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 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 Passes UL VW-1 flame test 30% stronger than standard polyolefin	100°C	2:1	FIT-105
<b>Cross-linked PVDF</b>	High shrink temperature Fast recovery time Excellent chemical, heat, and flame resistance Passes UL VW-1 flame test 3x the tensile strength of standard polyolefin	170°C	2:1	FIT-350
<b>FEP</b>	High shrink temperature Excellent chemical resistance Excellent dielectric properties Thinnest wall thickness available	200°C	1.2:1	FIT-400
<b>PTFE</b>	High shrink temperature Excellent chemical resistance Excellent dielectric properties Very thin wall thickness	250°C	1.5:1	FIT-500
<b>Chlorinated polyolefin</b>	Highly flexible Oil and abrasion resistant Passes UL VW-1 flame test	130°C	2:1	FIT-600
<b>Flexible fluoroelastomer</b>	High shrink temperature Excellent chemical resistance Flexible	120°C	2:1	FIT-650
<b>Polyethylene/polyester</b>	Superior abrasion resistance Excellent flexibility Resists harsh environments	80°C	2:1	FIT-FABRIC
<b>Cross-linked silicone rubber</b>	High flexibility available Pliable Scrape abrasion resistant Passes UL VW-1 flame test	200°C	1.7:1	FIT-FLEX
<b>Cross-linked PVDF</b>	Transparent after shrink Fast recovery time Excellent chemical, heat, and flame resistance Passes UL VW-1 flame test 2x the tensile strength of standard polyolefin	150°C	2:1	FIT-CLEAR

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Selecting the correct cable for your critical application is essential to overall system reliability, performance, and safety. So we make it easy for you to select the right Alpha cable for your specific application. Our online resources include a wire and cable selection guide, technical information, full product catalog, and a distributor locator to make it easy to select and get the cable you need. Can't find what you're looking for? Design the cable to your specification. It's easy, just visit **[www.alphawire.com](http://www.alphawire.com)**!

GLOBAL HEADQUARTERS  
711 Lidgerwood Avenue  
Elizabeth, NJ 07207-0711 USA  
Toll Free: 1-800-52 ALPHA  
Tel: 1-908-925-8000  
Fax: 1-908-925-5411  
E-mail: [info@alphawire.com](mailto:info@alphawire.com)

EUROPE  
Alpha Wire International  
Saxon House  
1 Downside | Sunbury-on-Thames  
Middlesex | United Kingdom | TW16 6RT  
Tel: 01 932 772 422  
Fax: 01 932 772 433  
E-mail: [europa@alphawire.com](mailto:europa@alphawire.com)

ASIA PACIFIC  
Alpha Wire  
Silver Center | Room 1712  
North Shanxi Road 1388  
Shanghai | China | 200060  
Tel: +86-21-61498201/61498205  
Fax: +86-21-61498001  
E-mail: [apac@alphawire.com](mailto:apac@alphawire.com)



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