

# Xtra-Guard® Performance Cable

Wire & Cable  
Solution

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 AlphaWire  
*Cables you trust. Service you deserve.*

# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance



### Features

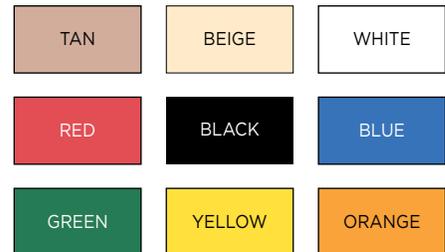
- The preferred cable for unsurpassed maximum temperature and chemical performance
- Temperature range from -80°C to +200°C
- UL, CSA listed
- 100% impervious to all chemicals, solvents, acids, fuels, and water
- Suitable for Class 1 cleanrooms
- FDA food/medical grade (sterilizable)
- Low-friction FEP jacket for easy routing
- Color-coded, tinned copper conductors
- 300 V
- Unshielded, foil shielded, or Supra-Shield® Foil + Braid
- Outstanding ultraviolet light stability in all jacket colors
- Aramid fiber ripcord for easy jacket stripping
- Excellent flame resistance and low smoke generation: Passes NFPA 262-2007

### Applications

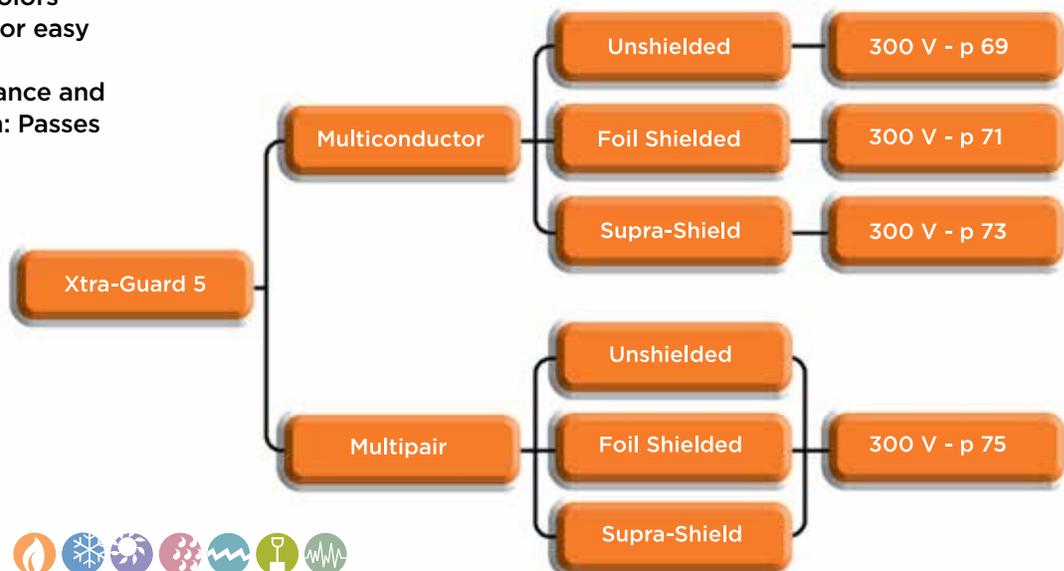
- Food and beverage wash-down
- Cleanroom environments
- Food/medical-grade applications
- Turbine generators
- Chemical processing
- Military electronics
- Mining instrumentation

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

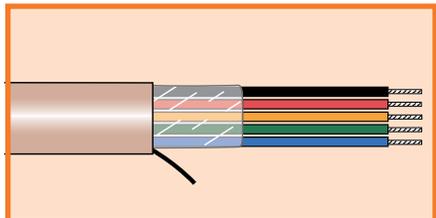


Xtra-Guard 5 cables are available in a range of long-lasting tints for fast, easy identification, for safety reasons, and for matching the color of your system.



# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance 300 V Unshielded, Multiconductor



**UL AWM 20229**  
**UL CMP**  
**CSA CMP FT6**

### Operating Temperature

- -80°C to +200°C
- -80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E
- Jacket Tints: Nine available (Tan standard)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aramid fiber ripcord

### Availability

Made to order  
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

### 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.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55012</b>	2	0.148	3.76	0.027	0.69
<b>55013</b>	3	0.155	3.94	0.027	0.69
<b>55014</b>	4	0.166	4.22	0.027	0.69
<b>55016</b>	6	0.193	4.90	0.027	0.69
<b>55019</b>	9	0.220	5.59	0.027	0.69
<b>55020/12</b>	12	0.243	6.17	0.027	0.69

### 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.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55002</b>	2	0.160	4.06	0.027	0.69
<b>55003</b>	3	0.168	4.27	0.027	0.69
<b>55004</b>	4	0.181	4.60	0.027	0.69
<b>55006</b>	6	0.211	5.36	0.027	0.69
<b>55009</b>	9	0.242	6.15	0.027	0.69
<b>55010/12</b>	12	0.268	6.81	0.027	0.69

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

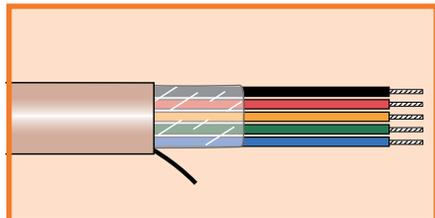
Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55052</b>	2	0.176	4.47	0.027	0.69
<b>55053</b>	3	0.185	4.70	0.027	0.69
<b>55054</b>	4	0.200	5.08	0.027	0.69
<b>55056</b>	6	0.235	5.97	0.027	0.69
<b>55059</b>	9	0.271	6.88	0.027	0.69
<b>55060/12</b>	12	0.301	7.65	0.027	0.69



# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance 300 V Unshielded, Multiconductor



**UL AWM 20229**  
**UL CMP**  
**CSA CMP FT6**

### Operating Temperature

- -80°C to +200°C
- -80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E
- Jacket Tints: Nine available (Tan standard)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aramid fiber ripcord

### Availability

Made to order  
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

### 18 AWG (0.90 mm<sup>2</sup>)

Stranding: 7/26 (7 x 0.40 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55062</b>	2	0.196	4.98	0.027	0.69
<b>55063</b>	3	0.207	5.26	0.027	0.69
<b>55064</b>	4	0.225	5.72	0.027	0.69
<b>55066</b>	6	0.265	6.73	0.027	0.69
<b>55069</b>	9	0.307	7.80	0.027	0.69
<b>55070/12</b>	12	0.343	8.71	0.027	0.69

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

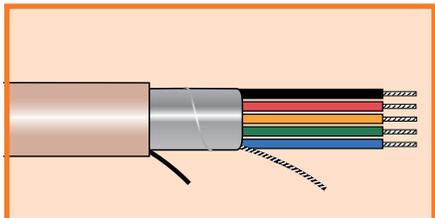
Stranding: 19/0.0117 (19 x 0.29 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55072</b>	2	0.218	5.54	0.027	0.69
<b>55073</b>	3	0.230	5.84	0.027	0.69
<b>55074</b>	4	0.251	6.38	0.027	0.69
<b>55076</b>	6	0.298	7.57	0.027	0.69
<b>55079</b>	9	0.347	8.81	0.027	0.69
<b>55080/12</b>	12	0.388	9.86	0.027	0.69



# Xtra-Guard® 5

Maximum Temperature and Chemical Performance  
300 V Foil Shielded, Multiconductor



**UL AWM 20229**  
**UL CMP**  
**CSA CMP FT6**

### Operating Temperature

- -80°C to +200°C
- -80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E
- Jacket Tints: Nine available (Tan standard)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Aramid fiber ripcord

### Availability

Made to order  
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

## 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.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55092</b>	2	0.154	3.91	0.027	0.69
<b>55093</b>	3	0.161	4.09	0.027	0.69
<b>55094</b>	4	0.172	4.37	0.027	0.69
<b>55096</b>	6	0.199	5.05	0.027	0.69
<b>55099</b>	9	0.226	5.74	0.027	0.69
<b>55100/12</b>	12	0.249	6.32	0.027	0.69

## 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.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55192</b>	2	0.166	4.22	0.027	0.69
<b>55193</b>	3	0.174	4.42	0.027	0.69
<b>55194</b>	4	0.187	4.75	0.027	0.69
<b>55196</b>	6	0.217	5.51	0.027	0.69
<b>55199</b>	9	0.248	6.30	0.027	0.69
<b>55199/12</b>	12	0.274	6.96	0.027	0.69

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

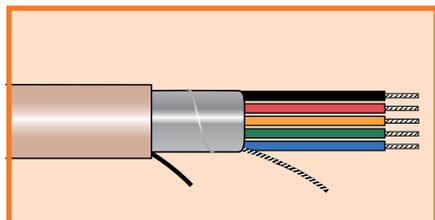
Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55462</b>	2	0.182	4.62	0.027	0.69
<b>55463</b>	3	0.191	4.85	0.027	0.69
<b>55464</b>	4	0.206	5.23	0.027	0.69
<b>55466</b>	6	0.241	6.12	0.027	0.69
<b>55469</b>	9	0.277	7.04	0.027	0.69
<b>55470/12</b>	12	0.307	7.80	0.027	0.69



# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance 300 V Foil Shielded, Multiconductor



**UL AWM 20229**  
**UL CMP**  
**CSA CMP FT6**

### Operating Temperature

- -80°C to +200°C
- -80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E
- Jacket Tints: Nine available (Tan standard)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Aramid fiber ripcord

### Availability

Made to order  
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

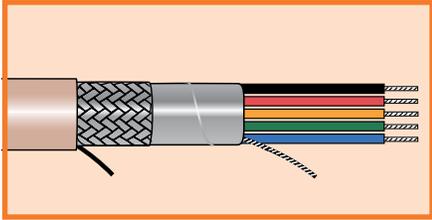
18 AWG (0.90 mm <sup>2</sup> )					
Stranding: 7/26 (7 x 0.40 mm)					
Insulation thickness: 0.010 (0.25 mm)					
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55382</b>	2	0.202	5.13	0.027	0.69
<b>55383</b>	3	0.213	5.41	0.027	0.69
<b>55384</b>	4	0.231	5.87	0.027	0.69
<b>55386</b>	6	0.271	6.88	0.027	0.69
<b>55389</b>	9	0.313	7.95	0.027	0.69
<b>55390/12</b>	12	0.349	8.86	0.027	0.69

16 AWG (1.23 mm <sup>2</sup> )					
Stranding: 19/0.0117 (19 x 0.29 mm)					
Insulation thickness: 0.010 (0.25 mm)					
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55362</b>	2	0.224	5.69	0.027	0.69
<b>55363</b>	3	0.236	5.99	0.027	0.69
<b>55364</b>	4	0.257	6.53	0.027	0.69
<b>55366</b>	6	0.304	7.72	0.027	0.69
<b>55369</b>	9	0.353	8.97	0.027	0.69
<b>55370/12</b>	12	0.394	10.01	0.027	0.69



# Xtra-Guard® 5

Maximum Temperature and Chemical Performance  
300 V Supra-Shield® Foil + Braid, Multiconductor



**UL AWM 20229**  
**UL CMP**  
**CSA CMP FT6**

### Operating Temperature

- -80°C to +200°C
- -80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E
- Jacket Tints: Nine available (Tan standard)

### Materials

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

### Availability

Made to order  
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

## 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.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55112	2	0.176	4.47	0.027	0.69
55113	3	0.183	4.65	0.027	0.69
55114	4	0.194	4.93	0.027	0.69
55116	6	0.221	5.61	0.027	0.69
55119	9	0.248	6.30	0.027	0.69
55120/12	12	0.271	6.88	0.027	0.69

## 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.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55102	2	0.188	4.78	0.027	0.69
55103	3	0.196	4.98	0.027	0.69
55104	4	0.209	5.31	0.027	0.69
55106	6	0.239	6.07	0.027	0.69
55109	9	0.270	6.86	0.027	0.69
55110/12	12	0.296	7.52	0.027	0.69

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

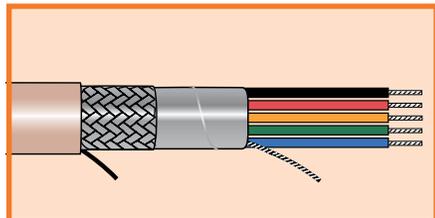
Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55152	2	0.204	5.18	0.027	0.69
55153	3	0.213	5.41	0.027	0.69
55154	4	0.228	5.79	0.027	0.69
55156	6	0.263	6.68	0.027	0.69
55159	9	0.299	7.59	0.027	0.69
55160/12	12	0.329	8.36	0.027	0.69



# Xtra-Guard® 5

Maximum Temperature and Chemical Performance  
300 V Supra-Shield® Foil + Braid, Multiconductor



**UL AWM 20229**  
**UL CMP**  
**CSA CMP FT6**

### Operating Temperature

- -80°C to +200°C
- -80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E
- Jacket Tints: Nine available (Tan standard)

### Materials

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

### Availability

Made to order  
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

## 18 AWG (0.90 mm<sup>2</sup>)

Stranding: 7/26 (7 x 0.40 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55162</b>	2	0.224	5.69	0.027	0.69
<b>55163</b>	3	0.235	5.97	0.027	0.69
<b>55164</b>	4	0.253	6.43	0.027	0.69
<b>55166</b>	6	0.293	7.44	0.027	0.69
<b>55169</b>	9	0.335	8.51	0.027	0.69
<b>55170/12</b>	12	0.371	9.42	0.027	0.69

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

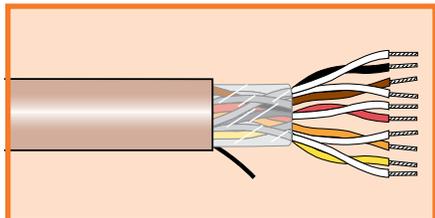
Stranding: 19/0.0117 (19 x 0.29 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55172</b>	2	0.246	6.25	0.027	0.69
<b>55173</b>	3	0.258	6.55	0.027	0.69
<b>55174</b>	4	0.279	7.09	0.027	0.69
<b>55176</b>	6	0.326	8.28	0.027	0.69
<b>55179</b>	9	0.375	9.53	0.027	0.69
<b>55180/12</b>	12	0.416	10.57	0.027	0.69



# Xtra-Guard® 5

Maximum Temperature and Chemical Performance  
300 V Unshielded, Multipair



**UL AWM 20229**  
**UL CMP**  
**CSA CMP FT6**

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>55021</b>	1	0.160	4.06	0.027	0.69
<b>55022</b>	2	0.224	5.69	0.027	0.69
<b>55023</b>	3	0.237	6.02	0.027	0.69
<b>55026</b>	6	0.307	7.80	0.027	0.69
<b>55029</b>	9	0.358	9.09	0.027	0.69
<b>55029/12</b>	12	0.401	10.19	0.027	0.69

### Operating Temperature

- -80°C to +200°C
- -80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart A
- Jacket Tints: Nine available (Tan standard)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aramid fiber ripcord

### Availability

Made to order  
1000 ft (305 m) minimum

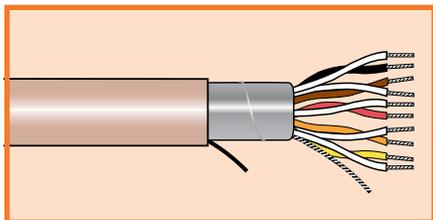
### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP



# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance 300 V Foil Shield, Multipair



**UL AWM 20229**  
**UL CMP**  
**CSA CMP FT6**

### Operating Temperature

- -80°C to +200°C
- -80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart A
- Jacket Tints: Nine available (Tan standard)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Aramid fiber ripcord

### Availability

Made to order  
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

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>55491</b>	1	0.154	3.91	0.027	0.69
<b>55492</b>	2	0.210	5.33	0.027	0.69
<b>55493</b>	3	0.222	5.64	0.027	0.69
<b>55496</b>	6	0.284	7.21	0.027	0.69
<b>55499</b>	9	0.329	8.36	0.027	0.69
<b>55499/11</b>	11	0.355	9.02	0.027	0.69

### 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>55481</b>	1	0.166	4.22	0.027	0.69
<b>55482</b>	2	0.230	5.84	0.027	0.69
<b>55483</b>	3	0.243	6.17	0.027	0.69
<b>55486</b>	6	0.313	7.95	0.027	0.69
<b>55489</b>	9	0.364	9.25	0.027	0.69
<b>55489/12</b>	12	0.407	10.34	0.027	0.69

### 20 AWG (0.56 mm²)

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

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55451</b>	1	0.182	4.62	0.027	0.69
<b>55452</b>	2	0.256	6.50	0.027	0.69
<b>55453</b>	3	0.271	6.88	0.027	0.69
<b>55455</b>	5	0.324	8.23	0.027	0.69
<b>55456</b>	6	0.353	8.97	0.027	0.69
<b>55459</b>	9	0.412	10.46	0.027	0.69
<b>55459/12</b>	12	0.461	11.71	0.027	0.69

### 18 AWG (0.90 mm²)

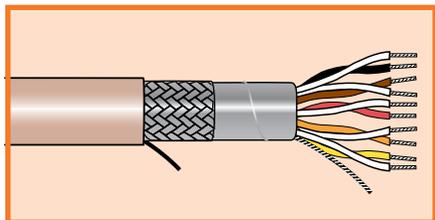
Stranding: 7/26 (7 x 0.40 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>55371</b>	1	0.202	5.13	0.027	0.69
<b>55372</b>	2	0.289	7.34	0.027	0.69
<b>55373</b>	3	0.306	7.77	0.027	0.69
<b>55376</b>	6	0.402	10.21	0.027	0.69
<b>55379</b>	9	0.472	11.99	0.027	0.69



# Xtra-Guard® 5

Maximum Temperature and Chemical Performance  
300 V Supra-Shield® Foil + Braid, Multipair



**UL AWM 20229**  
**UL CMP**  
**CSA CMP FT6**

### Operating Temperature

- 80°C to +200°C
- 80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart A
- Jacket Tints: Nine available (Tan standard)

### Materials

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

### Availability

Made to order  
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

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
55271	1	0.176	4.47	0.027	0.69
55272	2	0.232	5.89	0.027	0.69
55273	3	0.244	6.20	0.027	0.69
55276	6	0.306	7.77	0.027	0.69
55279	9	0.351	8.92	0.027	0.69
55279/12	12	0.388	9.86	0.027	0.69

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
55121	1	0.188	4.78	0.027	0.69
55122	2	0.252	6.40	0.027	0.69
55123	3	0.265	6.73	0.027	0.69
55126	6	0.335	8.51	0.027	0.69
55129	9	0.386	9.80	0.027	0.69
55129/12	12	0.429	10.90	0.027	0.69

20 AWG (0.56 mm <sup>2</sup> )					
Stranding: 7/28 (7 x 0.32 mm) Insulation thickness: 0.010 (0.25 mm)					
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55291	1	0.204	5.18	0.027	0.69
55292	2	0.278	7.06	0.027	0.69
55293	3	0.293	7.44	0.027	0.69
55296	6	0.375	9.53	0.027	0.69
55299	9	0.434	11.02	0.027	0.69
55299/12	12	0.483	12.27	0.027	0.69

18 AWG (0.90 mm <sup>2</sup> )					
Stranding: 7/26 (7 x 0.40 mm) Insulation thickness: 0.010 (0.25 mm)					
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
55131	1	0.224	5.69	0.027	0.69
55132	2	0.311	7.90	0.027	0.69
55133	3	0.328	8.33	0.027	0.69
55136	6	0.424	10.77	0.027	0.69
55139	9	0.504	12.80	0.032	0.81



# Conductor Color Coding

## Multipair Cables

**Chart A**

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black +Red	14	Green + Blue	27	Brown + Yellow
2	Black + White	15	Green + White	28	Violet + Red
3	Black + Green	16	Green + Brown	29	Violet + White
4	Black + Blue	17	Green + Orange	30	Violet + Green
5	Black + Brown	18	Green + Yellow	31	Violet + Blue
6	Black + Yellow	19	White + Blue	32	Violet + Brown
7	Black + Orange	20	White + Brown	33	Violet + Yellow
8	Red + Green	21	White + Orange	34	Violet + Orange
9	Red + White	22	White + Yellow	35	Violet + Slate
10	Red + Blue	23	Blue + Brown	36	Violet + Black
11	Red + Yellow	24	Blue + Orange	37	Slate + Red
12	Red + Brown	25	Blue + Yellow	38	Slate + White
13	Red + Orange	26	Brown + Orange	39	Slate + Green

**Chart B**

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